

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P595487

Luminaire Tested: **ISW-PA1A-827-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISW-PA1A-827-U-T2R-HSS
Description: IMPACT ELITE LED WEDGE LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2449 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

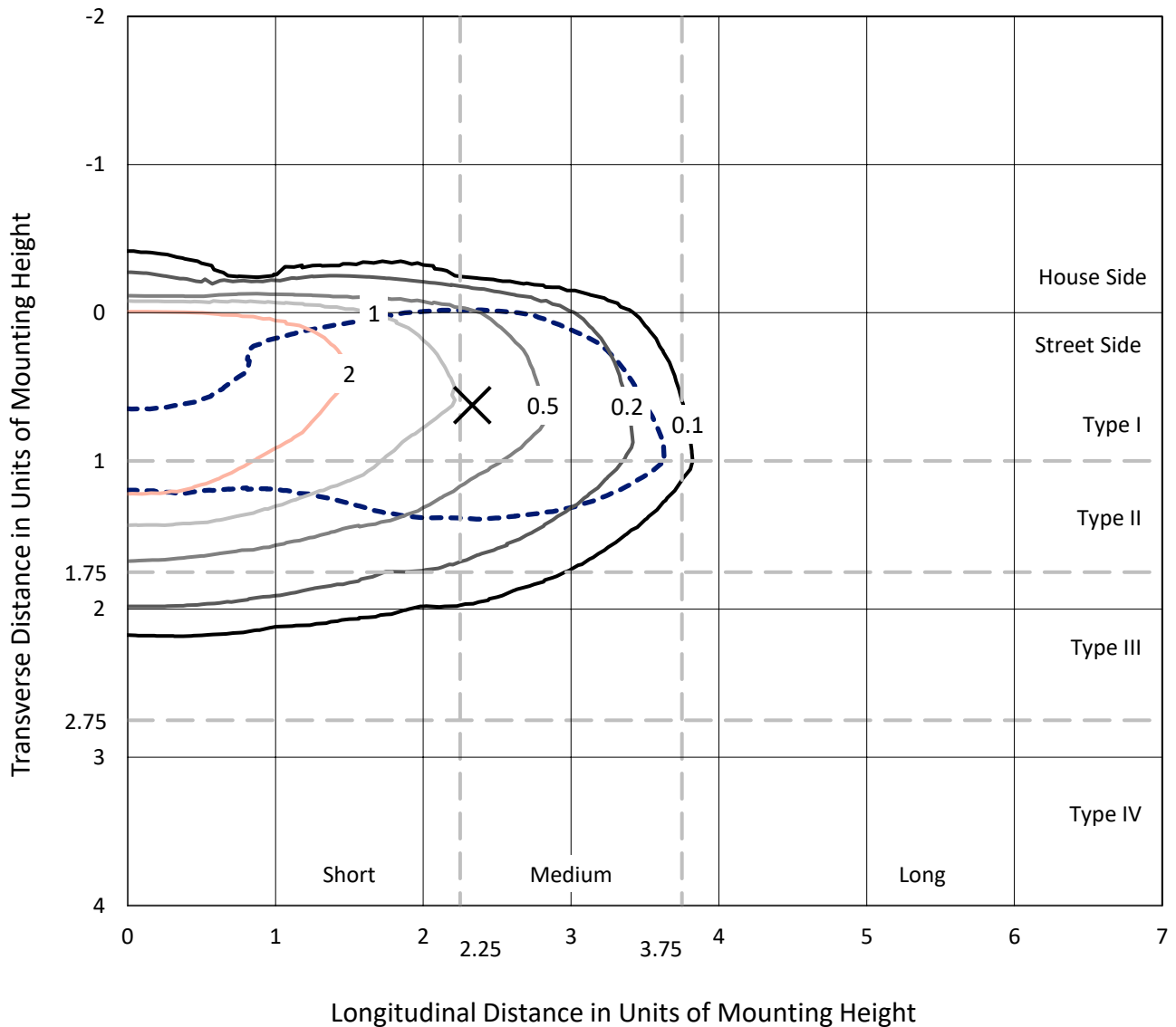
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

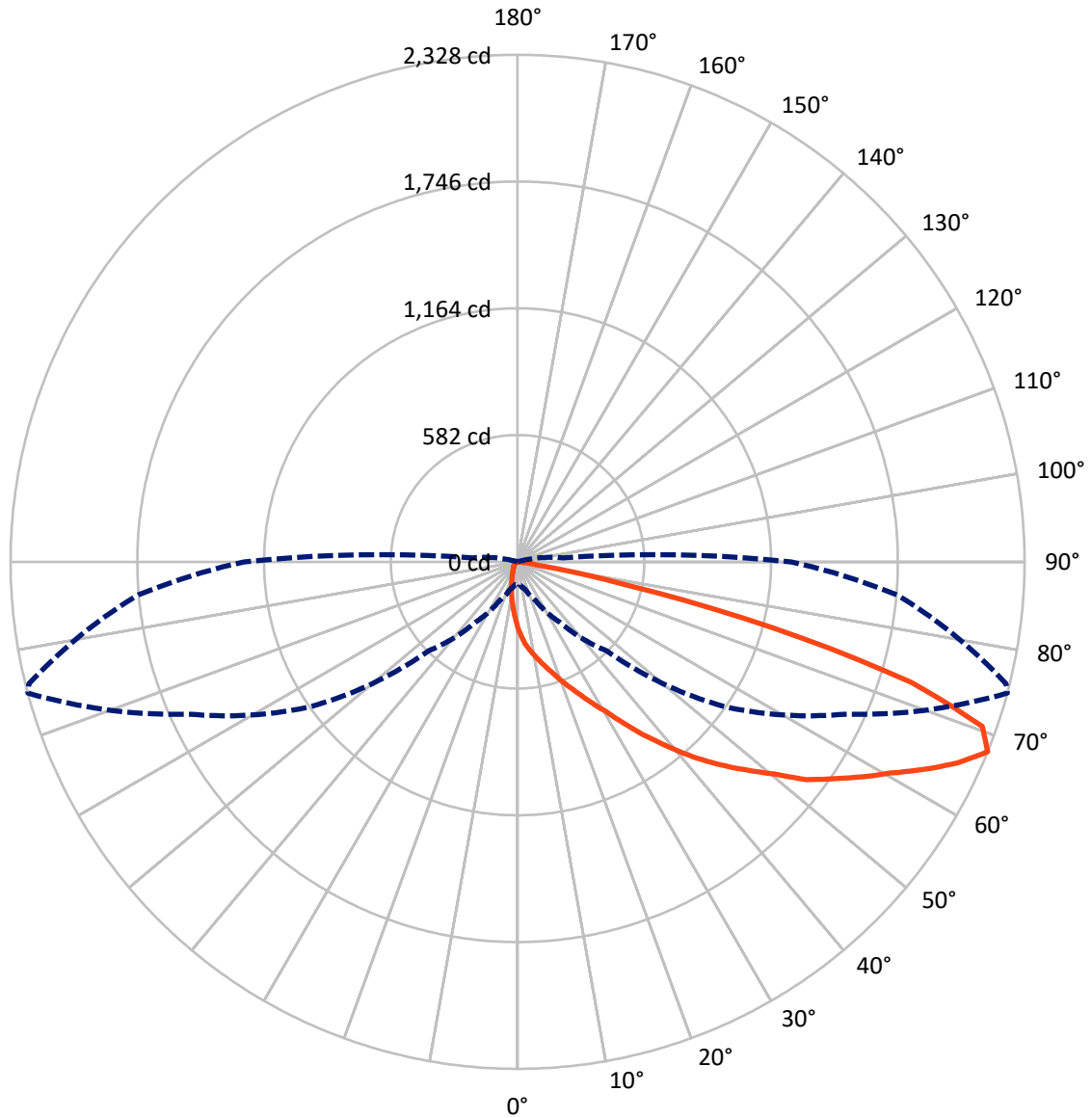
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 123.5 | 0.0 | 123.5 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 2325.5 | 0.0 | 2325.5 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 2449.0 | 0.0 | 2449.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 27.5 | 1.1 |
| 10°-20° | 88.6 | 3.6 |
| 20°-30° | 178.1 | 7.3 |
| 30°-40° | 336.8 | 13.8 |
| 40°-50° | 503.9 | 20.6 |
| 50°-60° | 581.8 | 23.8 |
| 60°-70° | 515.7 | 21.1 |
| 70°-80° | 208.4 | 8.5 |
| 80°-90° | 8.3 | 0.3 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 2449.0 | 100.0 |
| 0°-180° | 2449.0 | 100.0 |

Coefficient of Utilization

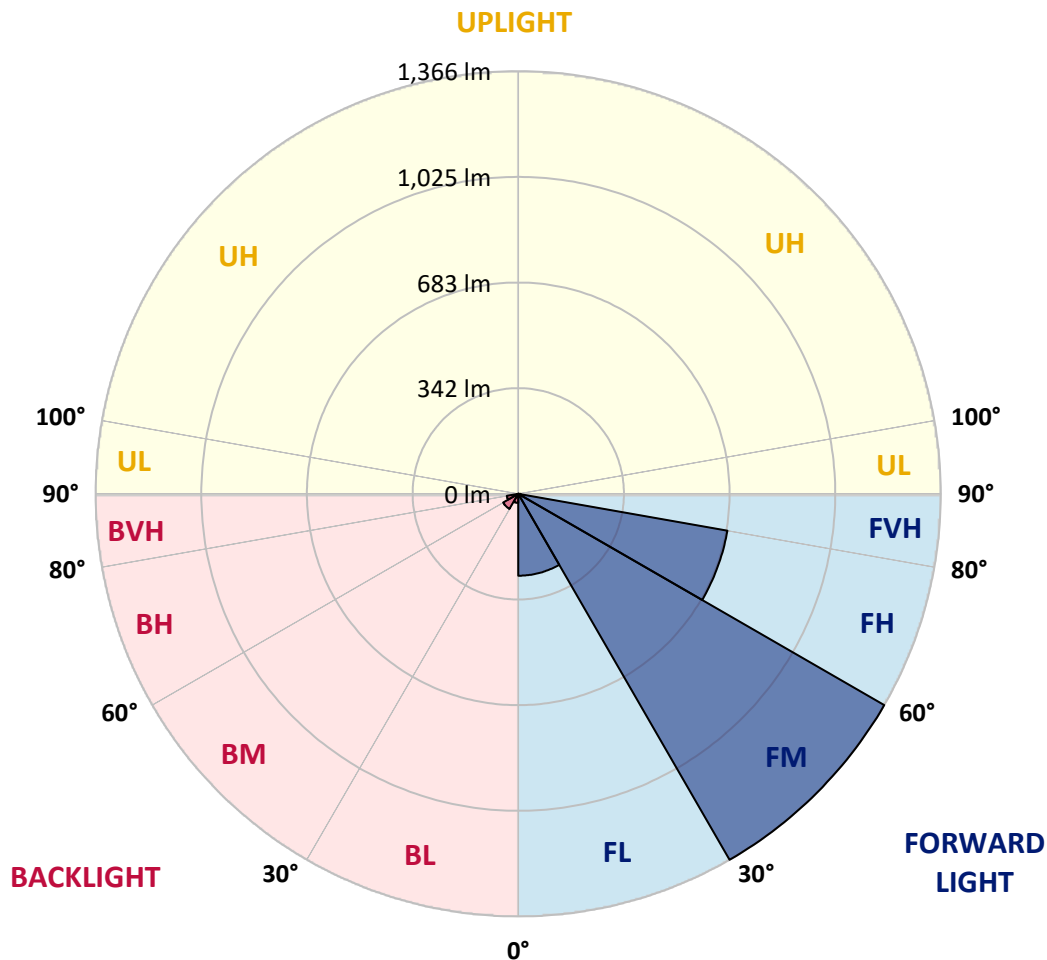


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 264.8 | 10.8 | | | |
| FM (30°-60°) | 1366.1 | 55.8 | | | |
| FH (60°-80°) | 686.7 | 28.0 | | | G1/1800 |
| FVH (80°-90°) | 8.0 | 0.3 | | | G0/10 |
| BL (0°-30°) | 29.3 | 1.2 | B0/110 | | |
| BM (30°-60°) | 56.3 | 2.3 | B0/220 | | |
| BH (60°-80°) | 37.4 | 1.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 304.4 | 304.4 | 304.4 | 304.4 | 304.4 | 304.4 | 304.4 | 304.4 | 304.4 | 304.4 | 304.4 |
| 2.5° | 423.4 | 424.9 | 422.0 | 415.4 | 409.5 | 395.5 | 384.5 | 364.6 | 343.3 | 343.3 | 317.6 |
| 5° | 473.4 | 472.0 | 470.5 | 465.4 | 460.9 | 449.2 | 434.5 | 413.2 | 380.1 | 377.1 | 334.5 |
| 7.5° | 497.7 | 496.2 | 493.3 | 491.1 | 491.1 | 483.0 | 469.0 | 447.0 | 410.2 | 407.3 | 349.9 |
| 10° | 526.4 | 523.4 | 523.4 | 517.5 | 516.1 | 506.5 | 499.2 | 480.1 | 439.6 | 435.9 | 367.6 |
| 12.5° | 560.2 | 557.2 | 558.0 | 552.8 | 550.6 | 540.3 | 530.0 | 511.7 | 471.2 | 467.6 | 388.2 |
| 15° | 579.3 | 577.8 | 582.2 | 583.0 | 584.4 | 575.6 | 566.1 | 547.0 | 506.5 | 501.4 | 412.4 |
| 17.5° | 590.3 | 590.3 | 595.5 | 605.0 | 616.1 | 610.9 | 603.6 | 588.1 | 542.5 | 539.6 | 438.2 |
| 20° | 611.6 | 609.4 | 618.3 | 627.1 | 641.1 | 645.5 | 643.3 | 631.5 | 585.9 | 577.1 | 466.1 |
| 22.5° | 646.9 | 644.0 | 652.1 | 663.1 | 680.0 | 681.5 | 683.0 | 677.1 | 630.0 | 621.2 | 495.5 |
| 25° | 730.0 | 722.7 | 715.3 | 713.8 | 720.4 | 726.3 | 721.9 | 726.3 | 680.0 | 671.9 | 527.1 |
| 27.5° | 891.7 | 879.2 | 844.0 | 805.0 | 777.8 | 782.9 | 769.0 | 777.1 | 737.4 | 727.1 | 556.5 |
| 30° | 1046.9 | 1034.4 | 1005.7 | 936.6 | 874.1 | 846.2 | 825.6 | 822.6 | 796.2 | 784.4 | 590.3 |
| 32.5° | 1154.9 | 1146.8 | 1127.7 | 1081.4 | 1003.5 | 932.2 | 892.5 | 878.5 | 874.8 | 856.5 | 633.7 |
| 35° | 1228.4 | 1221.1 | 1207.9 | 1170.4 | 1113.0 | 1033.6 | 965.3 | 934.4 | 962.3 | 940.3 | 683.0 |
| 37.5° | 1272.5 | 1267.4 | 1252.7 | 1227.0 | 1196.1 | 1143.9 | 1055.7 | 1006.4 | 1050.5 | 1029.9 | 746.2 |
| 40° | 1304.9 | 1291.7 | 1281.4 | 1261.5 | 1251.2 | 1234.3 | 1158.6 | 1081.4 | 1146.1 | 1124.8 | 808.7 |
| 42.5° | 1307.8 | 1302.0 | 1293.9 | 1282.1 | 1283.6 | 1294.6 | 1268.1 | 1168.2 | 1242.4 | 1222.6 | 874.8 |
| 45° | 1307.1 | 1301.2 | 1295.3 | 1283.6 | 1290.9 | 1332.1 | 1356.4 | 1259.3 | 1336.5 | 1315.9 | 944.7 |
| 47.5° | 1285.8 | 1281.4 | 1282.8 | 1282.8 | 1292.4 | 1348.3 | 1424.7 | 1351.9 | 1430.6 | 1410.8 | 1029.2 |
| 50° | 1210.8 | 1215.2 | 1244.6 | 1260.1 | 1277.0 | 1349.0 | 1472.5 | 1449.0 | 1532.1 | 1518.1 | 1110.8 |
| 52.5° | 973.3 | 998.3 | 1117.4 | 1199.0 | 1248.3 | 1334.3 | 1503.4 | 1551.2 | 1660.7 | 1639.4 | 1203.4 |
| 55° | 744.0 | 745.4 | 860.1 | 1049.8 | 1191.7 | 1307.8 | 1521.0 | 1620.3 | 1758.5 | 1746.7 | 1285.0 |
| 57.5° | 603.6 | 602.8 | 659.4 | 830.0 | 1044.7 | 1265.9 | 1525.4 | 1671.0 | 1862.1 | 1840.1 | 1379.1 |
| 60° | 493.3 | 490.3 | 524.2 | 629.3 | 853.5 | 1167.4 | 1509.3 | 1712.2 | 1968.7 | 1960.7 | 1477.7 |
| 62.5° | 356.5 | 359.5 | 404.3 | 485.9 | 658.0 | 985.8 | 1474.7 | 1724.7 | 2097.4 | 2089.3 | 1587.9 |
| 65° | 205.1 | 213.9 | 263.2 | 349.9 | 504.3 | 771.2 | 1376.2 | 1715.1 | 2223.1 | 2222.4 | 1690.1 |
| 67.5° | 102.9 | 103.7 | 130.1 | 195.6 | 338.9 | 577.1 | 1158.6 | 1654.8 | 2327.5 | 2311.3 | 1748.9 |
| 70° | 66.2 | 67.6 | 76.5 | 100.7 | 187.5 | 399.9 | 885.1 | 1484.3 | 2262.1 | 2256.2 | 1662.9 |
| 72.5° | 50.7 | 52.2 | 59.5 | 66.2 | 97.8 | 227.2 | 599.1 | 1153.5 | 1888.6 | 1872.4 | 1296.8 |
| 75° | 39.7 | 40.4 | 47.8 | 53.7 | 65.4 | 106.6 | 300.7 | 719.0 | 1216.7 | 1174.8 | 738.1 |
| 77.5° | 31.6 | 32.3 | 36.0 | 42.6 | 50.0 | 59.5 | 89.0 | 323.5 | 494.8 | 441.8 | 239.7 |
| 80° | 20.6 | 21.3 | 27.2 | 33.1 | 42.6 | 39.0 | 34.6 | 93.4 | 105.9 | 95.6 | 42.6 |
| 82.5° | 11.8 | 12.5 | 18.4 | 26.5 | 32.3 | 22.1 | 19.8 | 27.2 | 25.0 | 24.3 | 13.2 |
| 85° | 3.7 | 3.7 | 12.5 | 18.4 | 14.7 | 6.6 | 12.5 | 9.6 | 8.1 | 7.4 | 4.4 |
| 87.5° | 0.7 | 0.7 | 5.9 | 6.6 | 2.2 | 0.7 | 1.5 | 2.2 | 2.9 | 3.7 | 2.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 304.4 | 304.4 | 304.4 | 304.4 | 304.4 | 304.4 | 304.4 | 304.4 | 304.4 | 304.4 | 304.4 |
| 2.5° | 305.1 | 290.4 | 263.2 | 239.7 | 216.9 | 197.0 | 183.1 | 170.6 | 161.7 | 159.5 | 155.9 |
| 5° | 307.3 | 278.6 | 226.4 | 182.3 | 144.1 | 113.2 | 95.6 | 83.8 | 77.9 | 74.3 | 74.3 |
| 7.5° | 309.5 | 266.9 | 191.9 | 133.1 | 91.2 | 69.1 | 58.1 | 52.9 | 50.7 | 50.0 | 49.3 |
| 10° | 313.9 | 258.0 | 162.5 | 95.6 | 62.5 | 52.2 | 47.8 | 45.6 | 44.1 | 43.4 | 43.4 |
| 12.5° | 321.3 | 250.7 | 135.3 | 70.6 | 51.5 | 46.3 | 43.4 | 40.4 | 39.0 | 38.2 | 38.2 |
| 15° | 330.8 | 245.5 | 111.7 | 56.6 | 47.0 | 41.9 | 38.2 | 35.3 | 33.1 | 32.3 | 32.3 |
| 17.5° | 344.1 | 241.9 | 91.9 | 50.0 | 43.4 | 37.5 | 33.1 | 30.1 | 27.9 | 27.2 | 27.2 |
| 20° | 357.3 | 241.9 | 75.7 | 46.3 | 39.7 | 33.1 | 28.7 | 25.0 | 22.8 | 22.1 | 22.1 |
| 22.5° | 374.9 | 241.1 | 63.2 | 42.6 | 35.3 | 28.7 | 24.3 | 19.8 | 18.4 | 17.6 | 17.6 |
| 25° | 389.6 | 241.1 | 54.4 | 39.0 | 30.9 | 25.0 | 19.8 | 16.2 | 14.7 | 14.0 | 14.0 |
| 27.5° | 407.3 | 238.9 | 46.3 | 34.6 | 26.5 | 20.6 | 16.2 | 13.2 | 11.8 | 11.0 | 11.0 |
| 30° | 422.7 | 236.0 | 41.2 | 30.9 | 22.8 | 16.9 | 13.2 | 10.3 | 9.6 | 9.6 | 9.6 |
| 32.5° | 448.4 | 233.8 | 36.8 | 26.5 | 19.1 | 14.0 | 10.3 | 8.1 | 7.4 | 7.4 | 7.4 |
| 35° | 479.3 | 233.8 | 33.8 | 22.8 | 16.2 | 11.8 | 8.1 | 6.6 | 5.9 | 5.9 | 5.9 |
| 37.5° | 519.8 | 236.0 | 30.1 | 19.8 | 13.2 | 9.6 | 6.6 | 5.1 | 4.4 | 4.4 | 4.4 |
| 40° | 562.4 | 241.1 | 27.2 | 17.6 | 11.8 | 7.4 | 5.1 | 3.7 | 2.9 | 3.7 | 3.7 |
| 42.5° | 613.1 | 246.3 | 24.3 | 15.4 | 9.6 | 5.9 | 3.7 | 2.2 | 1.5 | 2.2 | 2.2 |
| 45° | 663.1 | 251.4 | 22.8 | 13.2 | 8.1 | 4.4 | 2.2 | 1.5 | 0.7 | 1.5 | 1.5 |
| 47.5° | 724.9 | 263.9 | 21.3 | 11.8 | 6.6 | 3.7 | 1.5 | 0.7 | 0.0 | 0.7 | 0.7 |
| 50° | 796.2 | 277.9 | 19.1 | 9.6 | 5.1 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 864.5 | 289.6 | 16.9 | 8.1 | 4.4 | 2.2 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 932.9 | 297.0 | 14.7 | 6.6 | 3.7 | 2.2 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 1006.4 | 301.4 | 13.2 | 5.9 | 2.9 | 1.5 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 1088.0 | 301.4 | 11.0 | 5.1 | 2.2 | 1.5 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 1178.4 | 292.6 | 10.3 | 4.4 | 2.2 | 1.5 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 1252.0 | 261.0 | 8.8 | 3.7 | 2.2 | 1.5 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 1254.9 | 206.6 | 8.1 | 2.9 | 2.2 | 1.5 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 1118.9 | 141.1 | 6.6 | 2.2 | 1.5 | 1.5 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 837.3 | 75.7 | 5.9 | 2.2 | 1.5 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 451.4 | 29.4 | 3.7 | 2.2 | 1.5 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 131.6 | 14.7 | 2.2 | 1.5 | 1.5 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 24.3 | 7.4 | 1.5 | 1.5 | 1.5 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 6.6 | 2.9 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 2.9 | 1.5 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.5 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)