

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: LUMARK

Report Number: P963420

Luminaire Tested: **NAV-SB3A-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8322 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

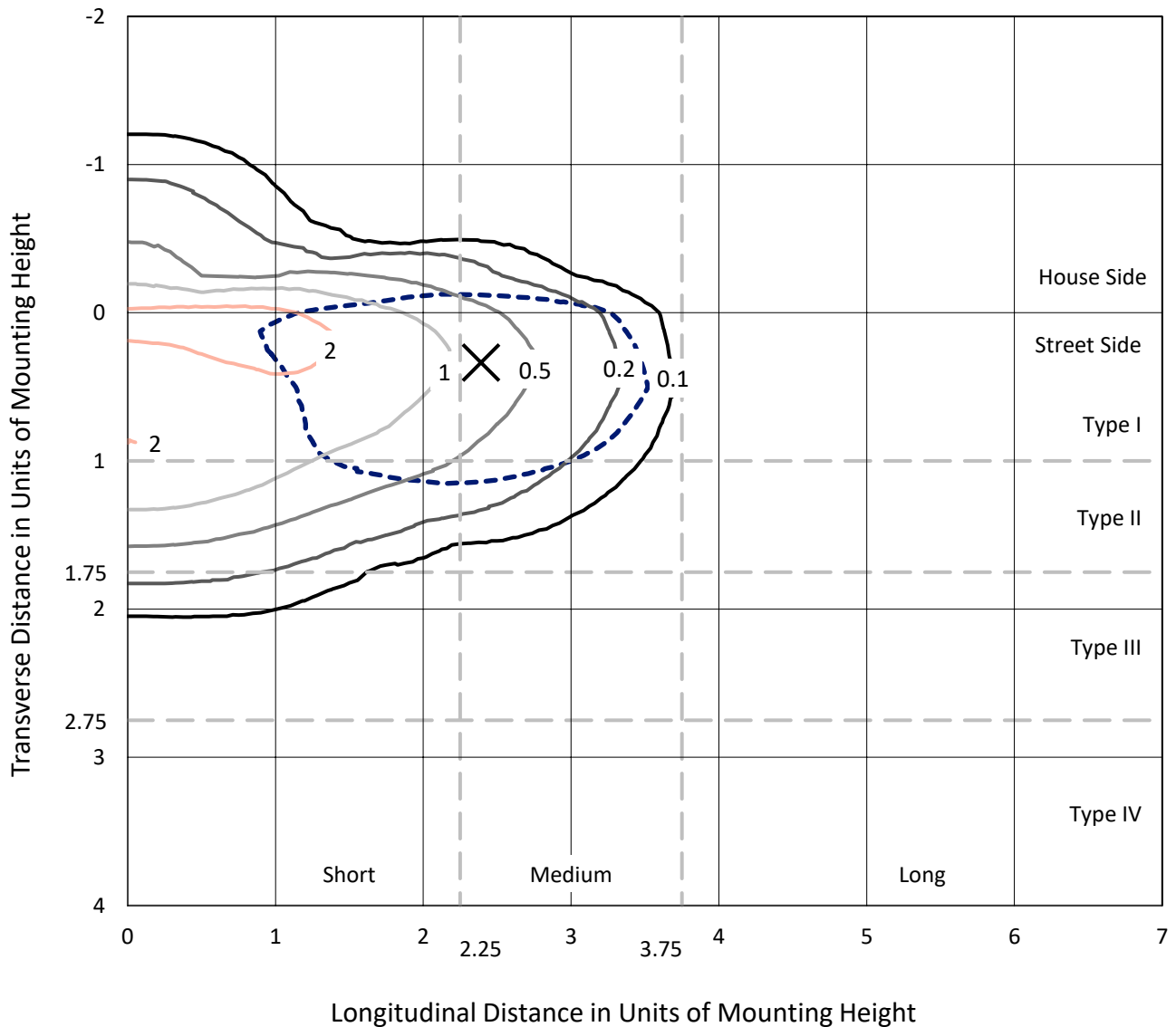
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

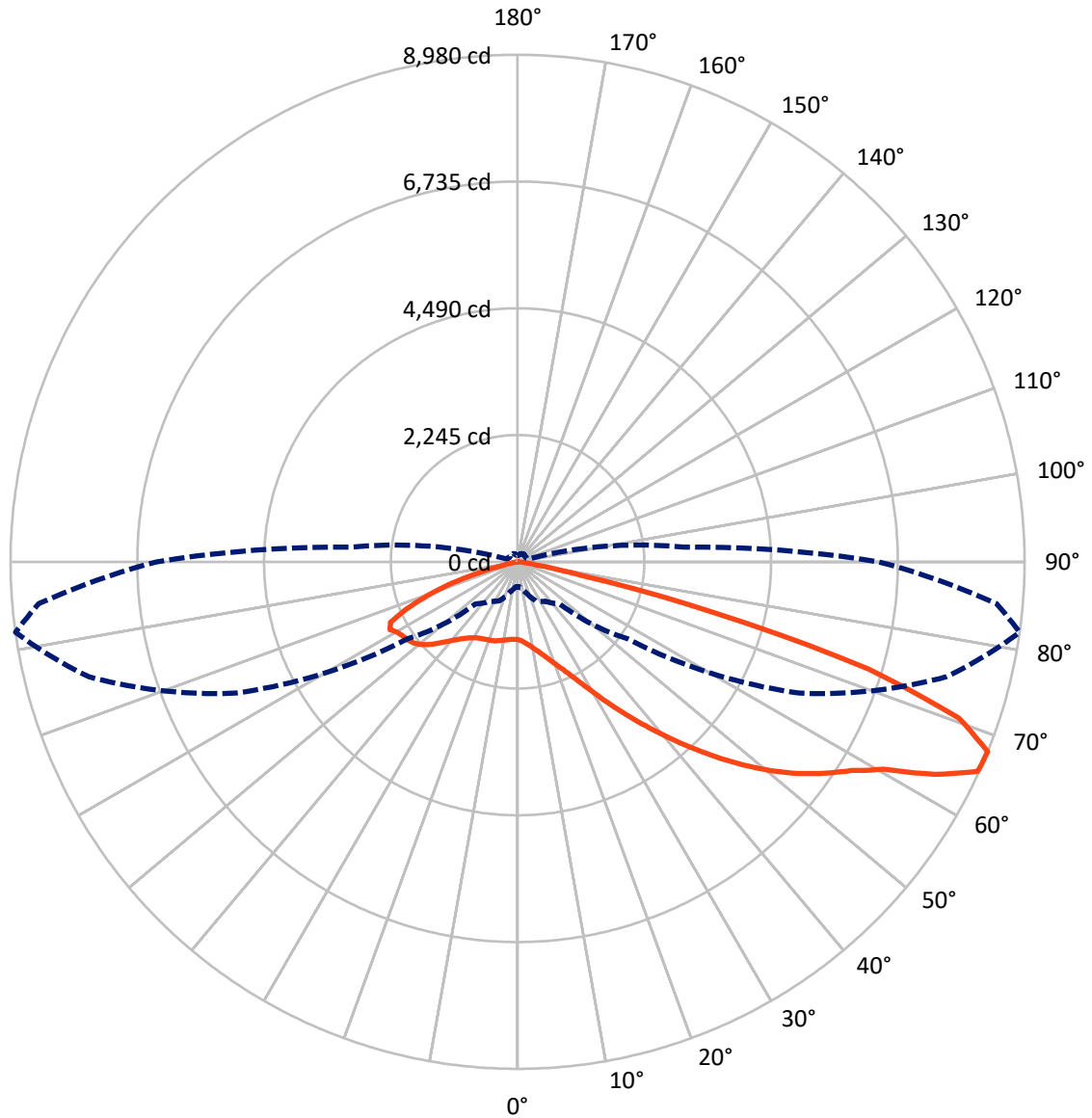
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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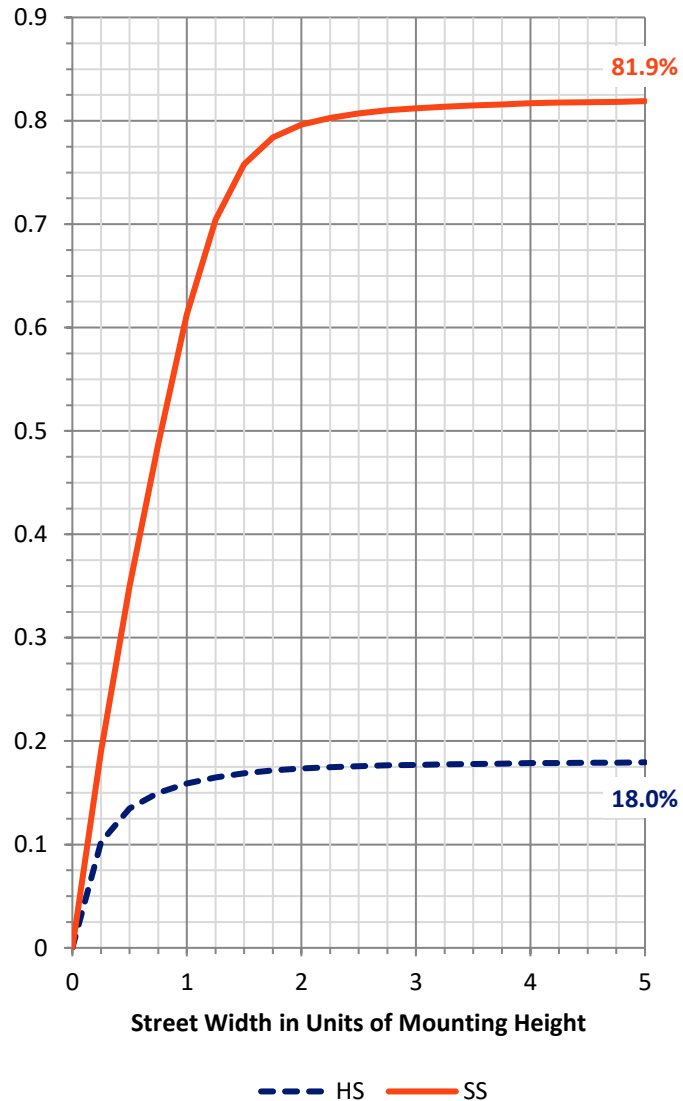
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1507.5	0.0	1507.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6814.5	0.0	6814.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	8322.0	0.0	8322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	1.5
10°-20°	319.2	3.8
20°-30°	511.2	6.1
30°-40°	904.0	10.9
40°-50°	1583.9	19.0
50°-60°	2112.5	25.4
60°-70°	1966.6	23.6
70°-80°	754.8	9.1
80°-90°	46.9	0.6
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°	8322.0	100.0
0°-180°	8322.0	100.0

Coefficient of Utilization

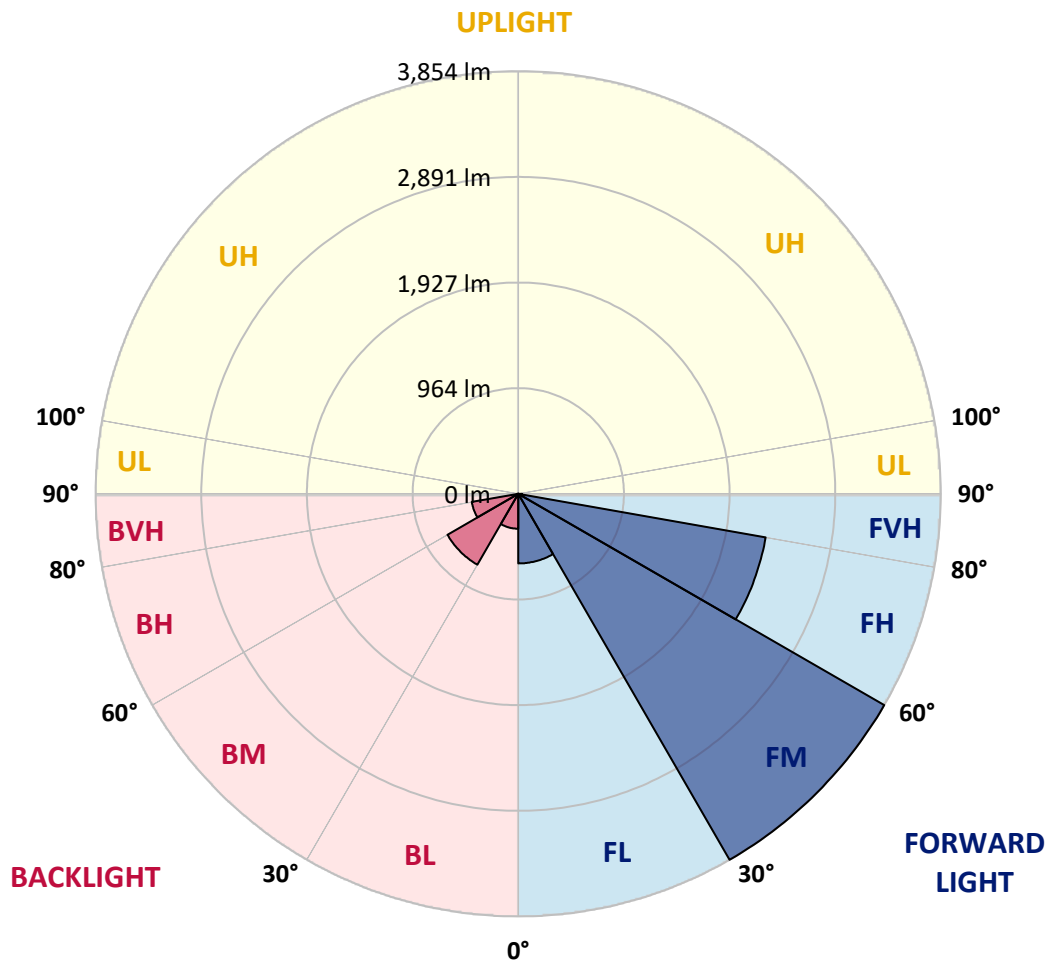


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	634.9	7.6			
FM (30°-60°)	3854.4	46.3			
FH (60°-80°)	2291.2	27.5			G2/5000
FVH (80°-90°)	34.1	0.4			G1/100
BL (0°-30°)	318.4	3.8	B1/500		
BM (30°-60°)	746.0	9.0	B1/1000		
BH (60°-80°)	430.3	5.2	B1/500		G1/500
BVH (80°-90°)	12.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6
2.5°	1457.1	1465.5	1460.7	1458.4	1454.2	1448.2	1443.4	1428.4	1412.9	1402.6	1399.0
5°	1486.6	1494.9	1494.3	1496.7	1499.7	1501.5	1500.3	1483.5	1461.3	1444.0	1433.8
7.5°	1461.3	1471.0	1478.8	1490.8	1511.7	1533.8	1544.7	1541.1	1518.2	1494.3	1481.7
10°	1390.0	1400.3	1418.8	1447.0	1491.3	1539.2	1579.4	1598.0	1583.6	1557.2	1539.9
12.5°	1259.4	1269.7	1306.2	1367.2	1441.6	1524.9	1601.6	1651.3	1654.9	1628.5	1608.1
15°	1112.6	1122.8	1161.7	1238.5	1351.7	1485.3	1613.6	1707.6	1739.3	1716.6	1692.1
17.5°	1021.6	1030.5	1060.0	1121.7	1239.6	1406.2	1609.4	1767.5	1840.0	1822.0	1792.7
20°	994.0	1001.8	1015.6	1058.7	1157.0	1324.1	1581.8	1823.9	1948.4	1938.3	1905.4
22.5°	1023.4	1030.5	1034.7	1053.9	1115.6	1270.2	1547.0	1881.4	2074.3	2075.5	2035.3
25°	1091.1	1098.3	1093.5	1105.5	1132.4	1253.5	1533.8	1949.0	2232.4	2245.7	2200.2
27.5°	1202.5	1203.1	1191.8	1191.2	1195.4	1278.6	1547.6	2021.6	2432.0	2456.5	2400.2
30°	1426.0	1417.1	1373.3	1325.9	1304.4	1354.1	1586.0	2107.3	2667.5	2711.2	2640.5
32.5°	1770.5	1757.4	1677.0	1563.8	1450.0	1475.7	1654.9	2204.9	2923.9	3003.0	2916.7
35°	2144.4	2140.8	2057.0	1888.6	1689.6	1648.9	1766.9	2333.1	3203.7	3329.5	3227.1
37.5°	2491.9	2490.1	2442.2	2243.8	2001.8	1890.3	1946.7	2500.9	3503.2	3685.5	3564.4
40°	2809.4	2814.9	2766.9	2589.6	2345.7	2200.2	2191.1	2708.3	3836.5	4073.1	3929.3
42.5°	3083.9	3089.9	3041.4	2910.1	2685.4	2542.8	2491.3	2962.2	4161.8	4489.5	4319.3
45°	3270.3	3307.4	3300.2	3195.3	3034.1	2886.2	2852.0	3281.0	4532.7	4931.1	4731.6
47.5°	3322.9	3357.1	3411.0	3425.4	3327.2	3181.5	3222.3	3665.1	4907.7	5373.3	5146.2
50°	3193.0	3224.6	3336.7	3485.9	3554.2	3509.3	3582.4	4076.7	5291.8	5814.2	5553.0
52.5°	2936.5	2968.8	3110.3	3346.3	3624.9	3766.4	3943.7	4482.3	5663.8	6231.9	5938.2
55°	2565.6	2599.8	2781.3	3048.6	3490.1	3872.3	4245.0	4887.4	6004.8	6607.6	6285.8
57.5°	2061.1	2086.3	2275.0	2648.9	3151.0	3766.9	4467.4	5329.5	6326.0	6976.7	6630.3
60°	1343.4	1365.5	1584.8	2001.8	2588.9	3414.6	4511.6	5822.6	6752.5	7456.6	7094.6
62.5°	893.4	908.4	1038.3	1344.5	1823.3	2738.2	4252.2	6216.3	7378.1	8291.8	7891.0
65°	612.9	627.9	758.0	971.3	1177.9	1811.3	3506.3	6164.1	7944.9	8955.0	8481.2
67.5°	437.4	450.0	560.3	761.6	852.6	1052.2	2376.9	5497.9	7863.4	8980.2	8512.8
70°	313.3	320.5	411.6	593.2	677.6	632.1	1321.7	4205.0	6884.9	8292.4	7864.6
72.5°	219.2	221.7	285.8	451.7	545.8	461.4	629.1	2803.5	5207.3	6508.6	6097.1
75°	148.6	151.6	192.3	331.4	438.0	352.3	333.1	1503.3	3057.0	3602.8	3229.5
77.5°	91.1	92.2	124.0	226.5	327.7	268.4	214.5	636.9	1182.7	1161.2	989.8
80°	51.6	51.6	79.1	140.8	223.4	173.1	150.4	270.8	374.4	328.9	290.0
82.5°	28.8	29.3	57.5	87.4	148.0	102.5	82.7	125.3	161.7	143.2	124.6
85°	12.0	13.2	35.4	41.3	70.7	50.9	33.5	52.7	60.0	53.3	38.9
87.5°	1.2	1.8	10.8	7.8	8.4	10.1	4.8	10.1	8.4	8.4	5.9
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°	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6	1378.6
2.5°	1387.6	1378.6	1355.9	1329.5	1294.8	1278.0	1255.2	1239.6	1226.5	1227.6	1215.6
5°	1414.6	1391.8	1340.9	1277.5	1198.3	1142.0	1082.1	1040.8	1007.2	1000.0	983.8
7.5°	1451.8	1415.8	1326.6	1212.1	1078.5	977.2	886.7	828.6	787.3	774.1	761.0
10°	1499.7	1447.6	1308.0	1130.1	937.7	808.8	711.8	666.2	638.1	628.5	621.4
12.5°	1555.4	1484.1	1283.4	1029.9	792.7	668.7	606.9	584.1	575.2	572.2	570.4
15°	1625.5	1529.6	1246.3	911.3	669.8	583.0	556.6	553.6	554.8	553.6	553.0
17.5°	1708.8	1579.4	1185.7	789.0	587.2	539.3	529.6	532.1	535.0	534.4	533.2
20°	1799.9	1628.5	1108.4	680.6	530.8	508.1	502.7	505.1	507.5	506.2	505.7
22.5°	1903.5	1681.2	1022.7	596.1	493.1	479.3	473.3	474.0	474.0	471.5	470.4
25°	2027.6	1739.3	932.9	536.3	464.3	453.6	446.4	443.9	440.3	433.2	432.0
27.5°	2175.6	1801.0	846.6	494.4	441.6	431.4	423.0	417.0	408.1	396.1	394.8
30°	2342.1	1876.0	773.6	467.9	423.6	413.4	403.8	394.8	381.7	366.6	365.5
32.5°	2538.0	1956.2	720.2	450.6	407.4	396.7	385.3	374.4	360.1	345.1	345.7
35°	2771.7	2053.3	689.0	438.6	394.8	380.5	367.9	355.9	345.1	331.9	330.8
37.5°	3025.2	2156.4	679.5	432.6	386.4	364.3	349.9	341.5	340.3	332.5	331.9
40°	3302.6	2278.6	686.6	429.0	377.5	348.7	333.1	331.4	334.4	320.5	321.1
42.5°	3596.2	2423.6	698.6	424.8	364.9	333.1	318.2	318.2	315.8	296.6	296.6
45°	3913.8	2590.8	710.6	414.6	349.9	317.5	306.2	302.0	291.8	273.3	272.6
47.5°	4233.7	2760.9	719.6	396.1	331.9	304.4	294.2	284.6	269.6	252.9	252.3
50°	4537.5	2913.8	710.0	368.5	311.6	291.8	281.1	267.8	251.6	240.3	238.4
52.5°	4808.9	3046.1	669.2	336.1	290.0	278.6	269.1	255.2	242.1	230.1	228.9
55°	5044.9	3153.4	597.4	305.6	270.8	267.2	257.7	240.3	222.3	212.1	210.9
57.5°	5271.4	3234.9	507.5	280.4	253.5	254.6	240.3	224.7	207.9	197.1	195.9
60°	5572.8	3344.0	416.5	257.1	234.8	238.4	222.9	211.5	190.5	176.7	175.0
62.5°	6054.6	3513.5	330.8	228.3	213.3	214.5	207.9	194.1	168.9	152.8	151.6
65°	6436.8	3451.2	260.7	197.1	188.7	190.5	190.5	175.6	148.6	130.0	128.2
67.5°	6393.6	2955.1	207.9	166.6	165.3	166.6	170.8	158.2	131.8	116.8	114.4
70°	5889.8	2350.5	166.6	138.4	143.8	140.8	152.8	144.4	118.6	103.6	101.9
72.5°	4805.9	1693.2	127.0	114.4	110.3	115.0	137.8	130.0	98.9	82.1	80.3
75°	2808.3	903.5	94.7	90.5	79.6	95.8	122.2	110.8	75.5	60.5	58.7
77.5°	914.3	315.2	69.5	66.5	59.3	77.3	104.2	93.5	61.7	48.0	46.1
80°	245.1	95.2	47.4	43.8	38.3	57.5	82.7	74.3	44.4	31.2	30.5
82.5°	98.3	40.2	27.6	24.6	21.0	39.6	65.3	60.0	33.0	19.8	19.8
85°	31.8	13.2	10.1	7.8	9.6	24.6	38.9	40.7	23.4	10.1	7.8
87.5°	4.2	1.8	1.8	2.4	1.8	4.2	12.0	11.4	6.6	1.2	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)