

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: STREETWORKS

Report Number: P270829

Luminaire Tested: **NVN-AF-02-LED-U-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-AF-02-LED-U-SL2-7027-800-HSS
Description: NAVION ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6974.4 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

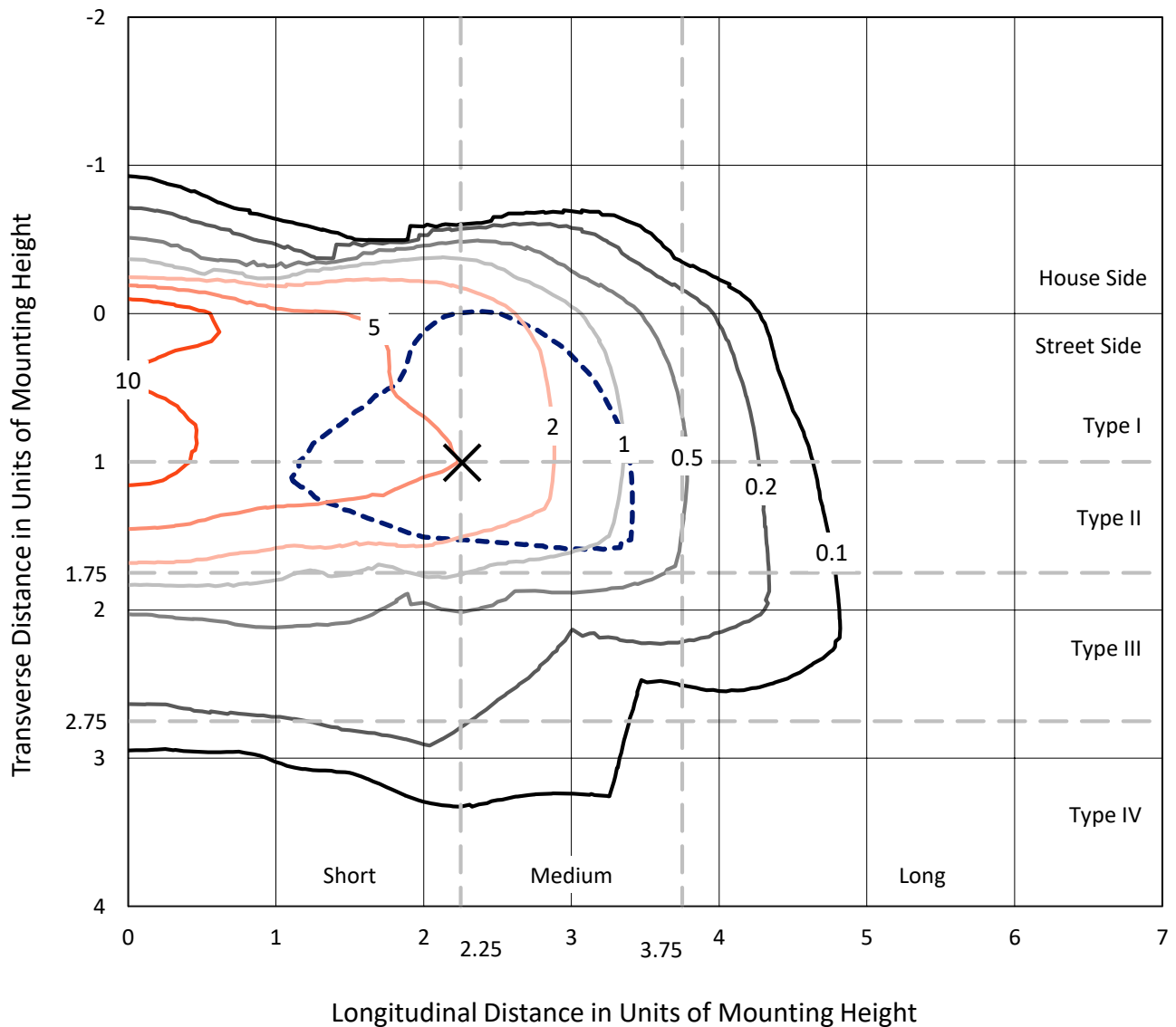


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

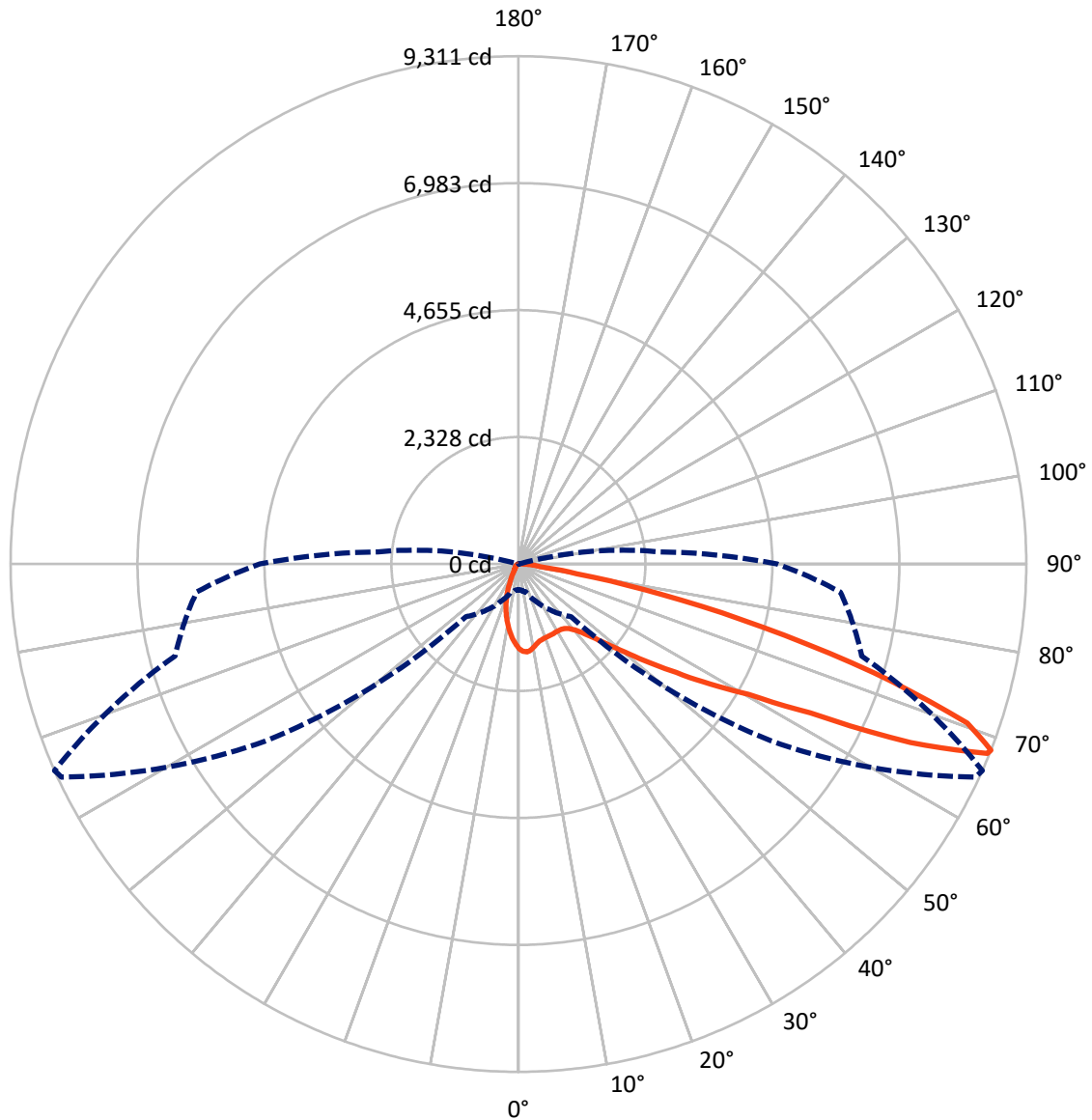


Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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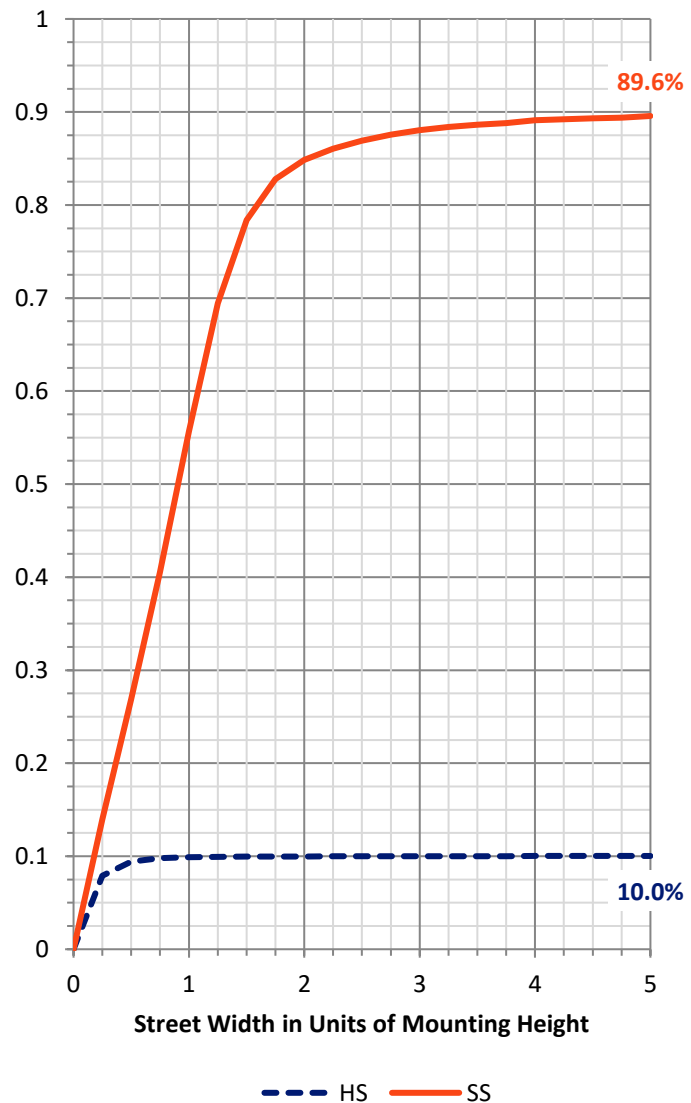
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	706.4	0.0	706.4
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	6268.0	0.0	6268.0
	% Fixture	89.9	0.0	89.9
Total	Lumens	6974.4	0.0	6974.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	1.8
10°-20°	274.1	3.9
20°-30°	397.2	5.7
30°-40°	608.0	8.7
40°-50°	1039.9	14.9
50°-60°	1626.7	23.3
60°-70°	1873.1	26.9
70°-80°	937.3	13.4
80°-90°	90.8	1.3
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°	6974.4	100.0
0°-180°	6974.4	100.0

Coefficient of Utilization



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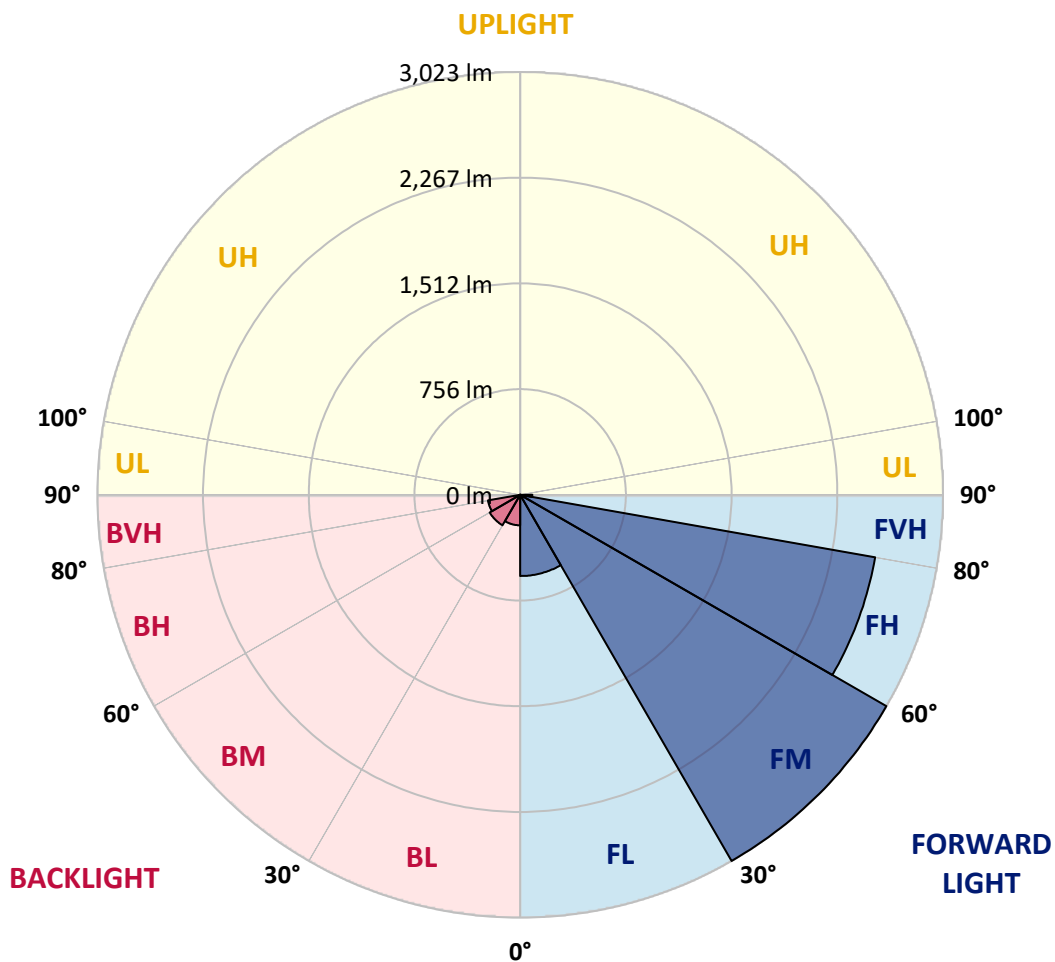
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.6	8.3			
FM (30°-60°)	3023.0	43.3			
FH (60°-80°)	2577.0	36.9			G2/5000
FVH (80°-90°)	87.3	1.3			G1/100
BL (0°-30°)	218.0	3.1	B1/500		
BM (30°-60°)	251.6	3.6	B1/1000		
BH (60°-80°)	233.4	3.3	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8
2.5°	1634.3	1635.5	1634.8	1636.5	1635.5	1627.2	1618.4	1599.8	1601.5	1577.3	1550.6
5°	1519.4	1528.6	1538.0	1547.3	1569.7	1589.5	1612.9	1618.4	1618.4	1597.6	1558.2
7.5°	1402.2	1402.8	1413.2	1425.7	1455.9	1491.9	1546.7	1596.0	1597.0	1602.5	1559.3
10°	1314.0	1316.7	1323.9	1337.5	1367.7	1403.2	1464.5	1541.9	1547.8	1588.4	1548.4
12.5°	1245.6	1248.9	1256.5	1272.4	1299.8	1336.5	1401.0	1489.2	1497.5	1574.5	1545.1
15°	1192.9	1197.4	1203.4	1219.3	1248.9	1287.7	1358.3	1454.1	1464.1	1569.2	1555.4
17.5°	1171.1	1171.1	1170.6	1181.5	1211.0	1250.5	1324.5	1435.6	1448.2	1573.6	1573.0
20°	1180.5	1178.8	1167.3	1164.6	1182.6	1222.1	1297.6	1423.5	1437.7	1581.7	1594.3
22.5°	1229.7	1226.5	1200.7	1179.4	1173.8	1200.1	1279.5	1415.3	1432.3	1598.8	1622.8
25°	1334.3	1324.5	1288.9	1240.6	1197.4	1194.7	1266.9	1411.0	1429.1	1618.4	1654.0
27.5°	1470.0	1467.3	1410.3	1345.8	1262.6	1212.7	1263.0	1407.6	1425.7	1632.7	1679.2
30°	1638.7	1639.8	1574.1	1489.7	1363.8	1263.6	1275.1	1405.9	1424.6	1633.7	1690.3
32.5°	1812.8	1813.9	1759.2	1668.8	1502.3	1351.2	1309.1	1413.7	1430.6	1629.3	1689.6
35°	1980.4	1982.0	1949.1	1876.3	1687.5	1472.9	1373.1	1440.0	1452.0	1632.1	1688.5
37.5°	2192.3	2198.8	2158.3	2090.4	1919.6	1651.3	1477.7	1493.1	1503.0	1654.6	1696.7
40°	2553.6	2544.8	2428.7	2313.8	2171.5	1868.7	1628.8	1584.5	1587.8	1712.6	1727.9
42.5°	2974.6	2963.7	2765.0	2566.7	2430.5	2130.9	1822.1	1724.7	1724.0	1810.1	1795.8
45°	3337.1	3330.5	3121.3	2856.9	2717.4	2420.6	2060.4	1926.7	1920.0	1978.6	1919.6
47.5°	3594.4	3588.9	3430.6	3165.6	3049.0	2739.2	2357.6	2202.0	2188.5	2199.3	2120.4
50°	3619.6	3613.5	3558.2	3388.0	3436.7	3206.8	2725.0	2562.9	2545.3	2528.4	2424.3
52.5°	3384.2	3383.6	3412.7	3401.7	3708.3	3808.5	3175.6	3009.1	2988.3	2945.1	2841.6
55°	2903.0	2900.2	3010.2	3170.1	3702.3	4429.4	3862.7	3540.2	3512.8	3426.3	3290.5
57.5°	2121.1	2106.9	2336.9	2675.7	3442.1	4700.9	4953.9	4199.9	4154.5	3880.1	3671.1
60°	1171.1	1176.6	1472.2	1873.5	2826.2	4647.2	5958.0	4969.2	4849.8	4271.7	4060.9
62.5°	656.5	670.1	890.2	1217.7	1801.9	4212.1	6496.7	6293.0	6005.6	4728.3	4553.7
65°	496.7	504.8	615.3	939.5	1136.0	2943.3	6582.7	8144.3	7896.2	5420.4	5338.2
67.5°	467.6	474.1	528.4	779.1	1034.8	1526.5	5935.6	9239.2	9270.4	6364.2	5945.9
68°	470.8	479.1	533.2	749.5	1033.1	1365.6	5659.6	9244.6	9310.9	6516.5	5925.1
70°	432.5	434.7	564.0	735.4	1001.4	1075.9	4094.3	8611.2	8730.1	6697.8	5378.7
72.5°	165.4	165.8	253.0	636.8	1049.0	1081.9	2062.5	6806.1	6812.0	5828.8	4193.4
75°	86.0	72.3	79.4	199.3	1001.9	1054.5	1034.8	4647.2	4618.2	3942.0	2569.4
77.5°	59.1	50.3	53.1	69.0	416.6	1053.9	747.4	2672.4	2666.3	1677.0	733.0
80°	33.3	29.0	31.8	58.0	146.2	989.4	696.5	1148.7	1082.4	294.6	118.8
82.5°	17.0	14.3	17.0	48.7	90.9	622.5	677.2	450.6	401.4	70.1	77.3
85°	4.4	4.4	8.3	34.0	56.5	204.3	607.2	325.2	292.4	30.6	54.7
87.5°	1.1	0.5	3.2	12.5	20.2	44.3	336.8	181.2	156.0	15.9	31.8
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°	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8	1553.8
2.5°	1539.5	1524.2	1494.2	1460.3	1436.1	1409.8	1394.4	1375.9	1361.7	1349.1	1358.3
5°	1534.1	1504.5	1437.7	1362.8	1299.8	1239.5	1194.7	1151.9	1119.6	1099.3	1107.6
7.5°	1519.9	1476.1	1367.7	1250.5	1147.6	1050.7	971.8	901.2	846.5	816.9	826.3
10°	1495.8	1434.0	1288.3	1125.7	981.7	844.8	727.6	622.5	543.1	505.8	514.6
12.5°	1478.3	1396.7	1206.2	1005.3	815.8	621.4	466.0	345.5	283.7	246.3	249.6
15°	1470.6	1367.7	1129.4	878.3	634.6	399.1	251.9	182.4	160.9	153.3	153.9
17.5°	1471.8	1344.8	1056.6	746.2	451.7	229.3	154.4	139.1	135.7	134.1	134.1
20°	1474.5	1321.6	981.0	608.8	289.1	147.9	128.6	123.7	122.1	120.0	120.5
22.5°	1482.7	1304.2	905.0	470.8	178.0	120.5	113.8	109.6	106.8	103.5	104.1
25°	1495.3	1291.0	830.0	338.9	125.4	105.1	99.2	93.1	88.2	84.4	84.9
27.5°	1503.0	1272.4	750.1	231.0	104.1	91.9	83.7	75.5	70.1	66.8	66.3
30°	1497.5	1242.3	659.1	151.6	91.9	79.4	69.4	60.2	54.7	52.0	52.0
32.5°	1482.7	1203.4	559.0	110.6	81.6	68.5	56.5	48.1	44.3	42.7	43.3
35°	1465.7	1162.9	452.2	93.7	73.4	58.0	46.1	39.4	37.8	37.2	37.2
37.5°	1456.4	1127.9	349.9	84.9	65.7	48.1	37.8	34.0	32.2	32.2	32.2
40°	1466.8	1101.1	259.0	78.3	58.0	40.0	31.8	29.0	28.4	28.4	28.4
42.5°	1511.0	1091.7	189.5	72.9	50.3	33.3	27.4	25.2	24.7	25.2	25.2
45°	1597.6	1112.0	143.5	67.4	43.3	27.4	23.5	21.9	21.9	22.5	22.5
47.5°	1744.4	1164.1	117.7	61.9	36.1	22.9	20.2	19.1	19.1	19.8	19.8
50°	1972.0	1260.3	105.7	55.9	30.2	19.8	17.0	16.3	16.3	17.0	17.5
52.5°	2318.2	1443.8	99.6	49.9	24.7	16.3	14.3	13.7	14.3	14.8	14.8
55°	2703.1	1678.7	92.5	43.7	20.8	13.7	11.5	11.5	12.0	13.1	13.1
57.5°	3061.7	1905.3	86.0	36.1	18.1	11.0	9.3	9.3	10.4	11.5	11.5
60°	3440.6	2127.6	77.3	29.0	15.4	8.8	7.6	7.6	9.3	10.4	11.0
62.5°	3908.6	2386.1	65.7	22.9	12.0	6.6	5.5	7.1	8.8	10.4	10.4
65°	4585.4	2707.4	51.5	18.1	9.3	4.9	4.4	6.6	8.3	9.8	10.4
67.5°	4831.3	2666.3	38.8	14.8	7.1	3.9	3.9	6.0	8.3	9.8	9.8
68°	4741.4	2576.6	37.2	14.3	6.6	3.9	3.9	6.0	8.3	9.8	9.8
70°	4131.6	2106.3	30.6	11.0	5.5	3.2	3.2	5.5	8.3	9.3	9.8
72.5°	3093.5	1399.4	26.3	7.1	4.9	3.2	2.8	5.5	7.6	9.3	9.3
75°	1774.5	580.9	22.5	5.5	4.4	2.8	2.8	4.9	7.6	9.3	9.3
77.5°	501.6	135.7	18.1	4.4	3.9	2.8	2.2	4.9	7.1	8.8	8.8
80°	91.9	40.6	14.3	3.9	3.2	2.8	2.2	4.9	7.1	8.8	8.8
82.5°	60.7	19.1	10.4	3.9	3.2	2.8	2.2	4.4	6.6	8.3	8.3
85°	45.5	13.7	6.6	3.9	3.2	2.8	2.2	4.4	6.6	8.3	8.3
87.5°	25.2	6.0	4.9	4.4	3.9	2.8	2.2	3.9	6.0	7.6	7.6
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)