

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: P960496

Luminaire Tested: **NVN-SB1C-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1C-830-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6858.3 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.4
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

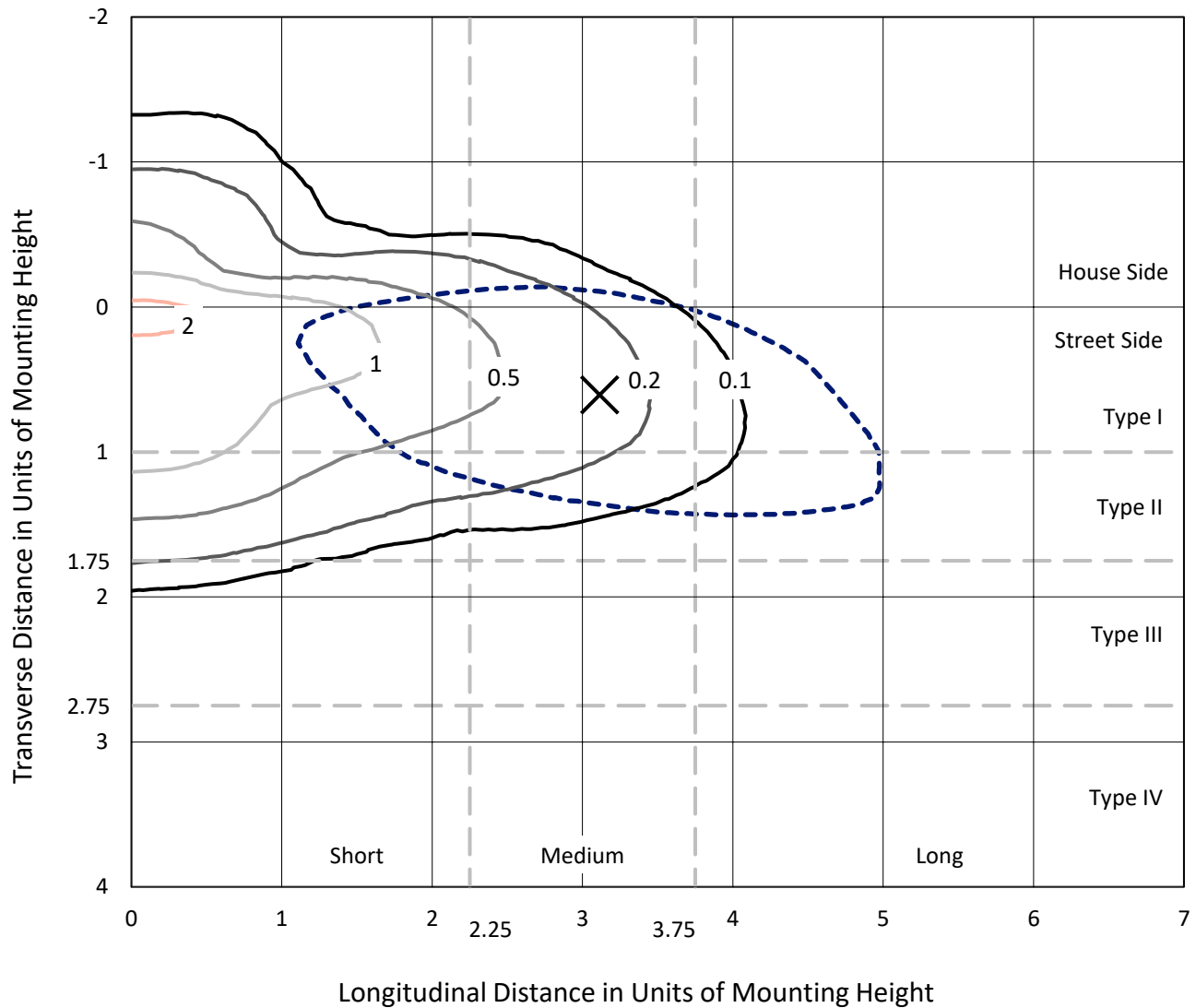


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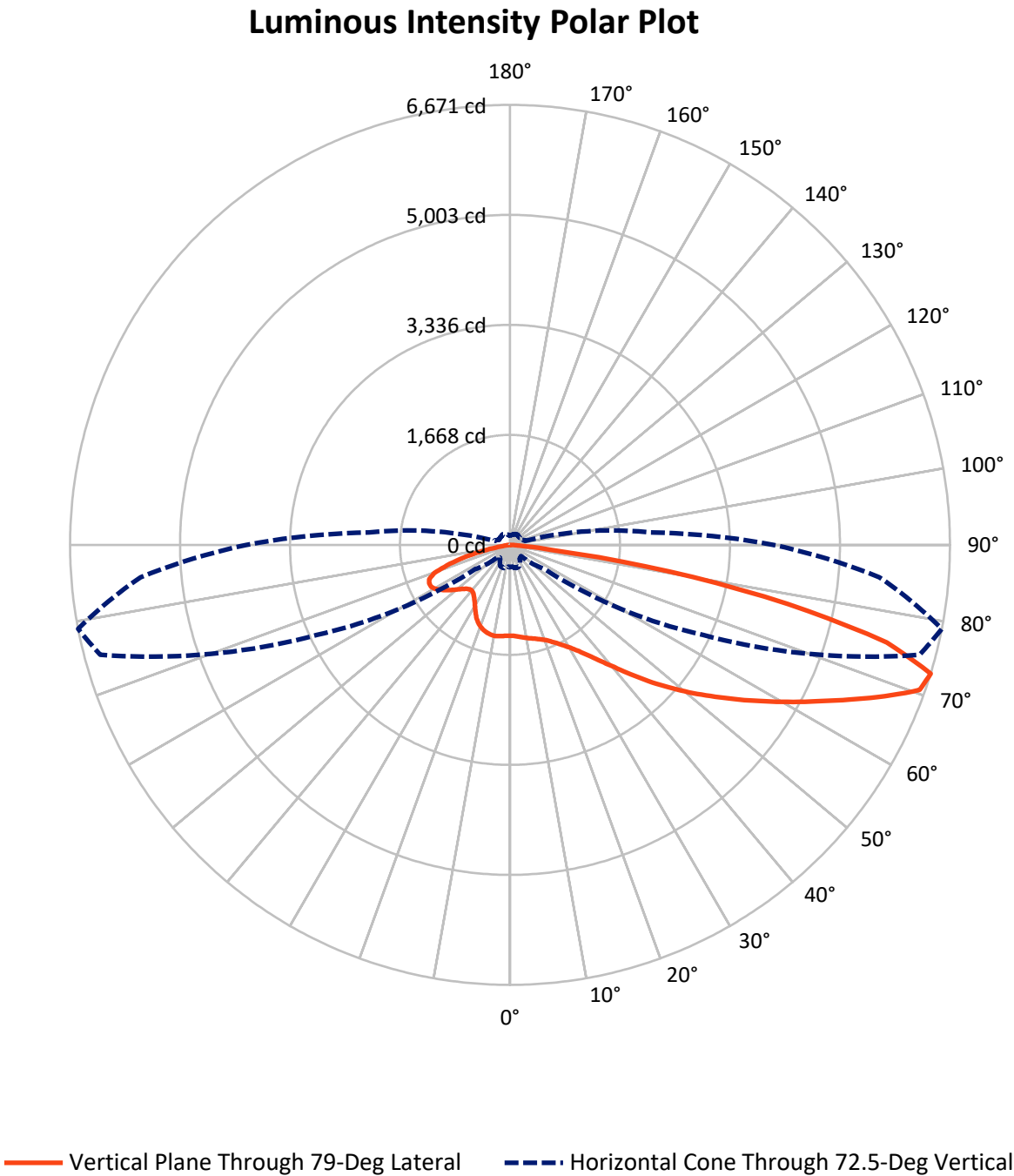
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type II - Medium - N/A

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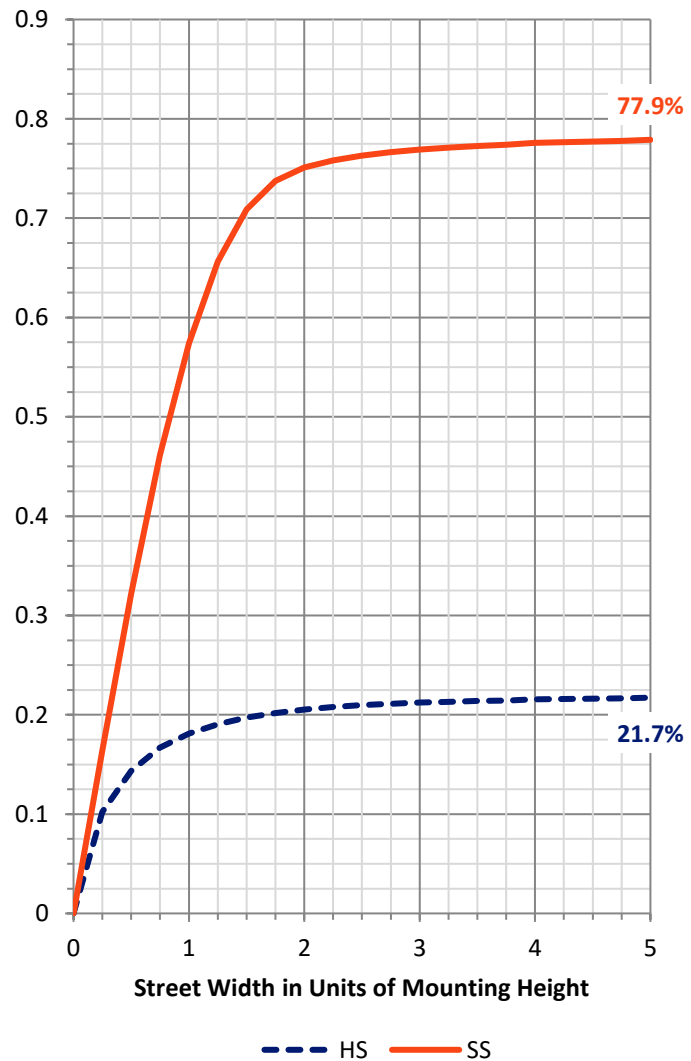
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1509.2	0.0	1509.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	5349.1	0.0	5349.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	6858.3	0.0	6858.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	1.8
10°-20°	326.7	4.8
20°-30°	527.2	7.7
30°-40°	791.3	11.5
40°-50°	1122.4	16.4
50°-60°	1417.5	20.7
60°-70°	1439.7	21.0
70°-80°	981.2	14.3
80°-90°	127.3	1.9
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°	6858.3	100.0
0°-180°	6858.3	100.0

Coefficient of Utilization



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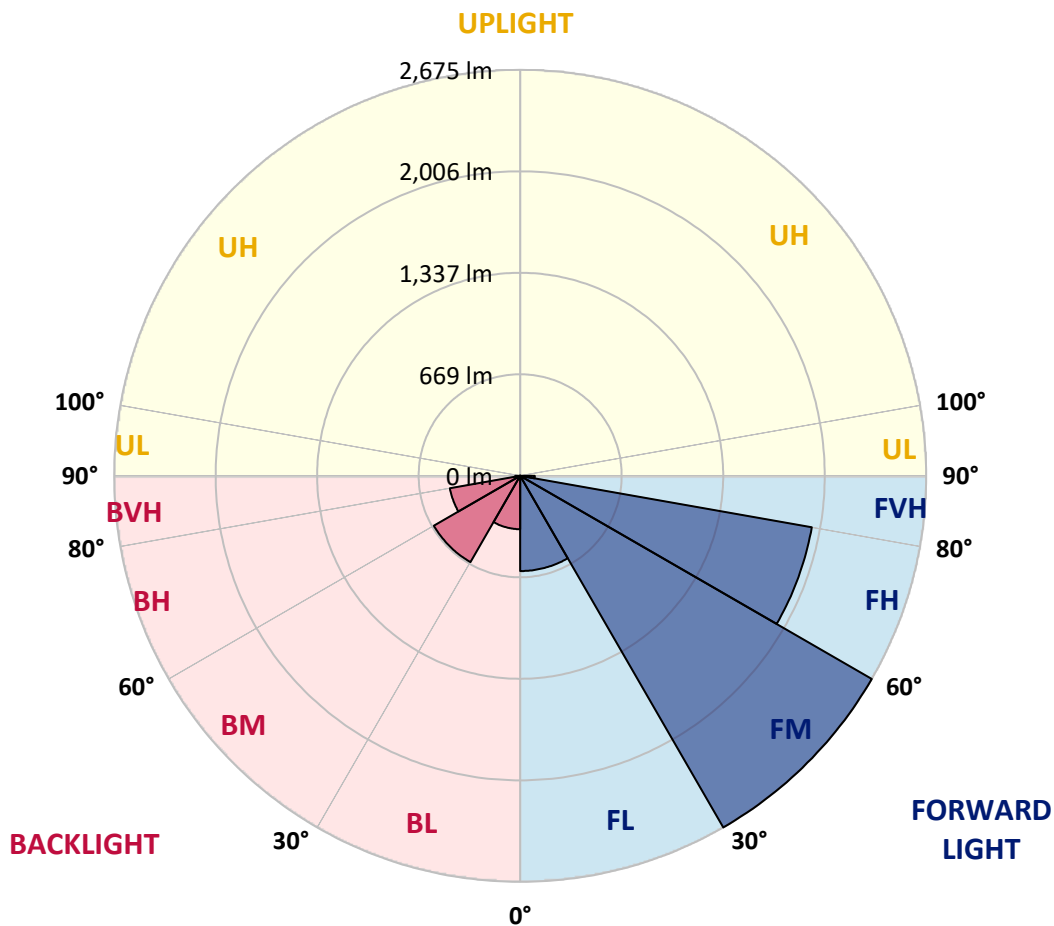
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	627.4	9.1			
FM	(30°-60°)	2674.9	39.0			
FH	(60°-80°)	1951.0	28.4			G2/5000
FVH	(80°-90°)	95.9	1.4			G1/100
BL	(0°-30°)	351.5	5.1	B1/500		
BM	(30°-60°)	656.3	9.6	B1/1000		
BH	(60°-80°)	469.9	6.9	B1/500		G1/500
BVH	(80°-90°)	31.4	0.5			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°	79°	85°
0°	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8
2.5°	1377.5	1370.9	1374.9	1373.5	1375.2	1377.5	1378.2	1379.2	1382.9	1382.5	1382.2
5°	1374.5	1368.1	1373.5	1371.7	1376.4	1381.5	1385.8	1389.8	1395.6	1398.1	1394.5
7.5°	1368.4	1364.1	1369.5	1374.9	1383.6	1391.2	1397.4	1406.5	1414.8	1416.2	1418.8
10°	1332.5	1329.2	1341.9	1356.1	1380.0	1400.7	1414.1	1424.6	1433.7	1435.1	1438.8
12.5°	1295.1	1291.1	1305.2	1324.5	1363.4	1400.7	1429.0	1442.8	1450.8	1455.5	1460.9
15°	1288.9	1285.7	1293.7	1310.4	1342.6	1390.9	1439.1	1464.5	1471.4	1476.8	1479.1
17.5°	1318.7	1312.5	1315.8	1321.6	1340.5	1381.8	1447.1	1489.2	1499.7	1505.5	1505.5
20°	1387.6	1378.9	1373.8	1362.2	1358.9	1383.2	1446.4	1518.9	1532.7	1540.0	1541.8
22.5°	1479.4	1473.6	1462.7	1433.4	1401.4	1401.1	1460.2	1557.1	1582.8	1589.7	1585.4
25°	1590.4	1581.7	1567.9	1528.0	1466.7	1436.2	1483.4	1605.7	1648.8	1650.7	1637.9
27.5°	1718.1	1705.1	1686.2	1633.5	1550.8	1491.4	1518.9	1661.5	1724.7	1723.9	1697.8
30°	1852.7	1839.7	1819.7	1755.8	1651.7	1565.8	1568.2	1721.7	1814.6	1810.7	1766.0
32.5°	1951.0	1941.2	1937.2	1887.8	1767.8	1653.5	1624.8	1788.5	1925.6	1922.0	1859.6
35°	2026.4	2013.8	2018.5	1993.4	1894.4	1751.8	1694.1	1868.0	2060.6	2060.2	1982.6
37.5°	2101.1	2090.0	2094.0	2077.3	2011.6	1876.7	1778.7	1965.1	2227.8	2235.8	2131.3
40°	2169.4	2157.4	2173.4	2157.8	2102.7	2009.4	1874.8	2075.1	2421.6	2436.7	2311.3
42.5°	2210.4	2201.0	2227.4	2227.8	2181.7	2121.5	1980.4	2196.3	2645.7	2679.9	2532.6
45°	2224.6	2221.3	2261.1	2269.6	2251.7	2186.4	2075.4	2328.3	2887.3	2948.3	2784.6
47.5°	2209.3	2203.1	2258.3	2289.1	2303.3	2217.0	2154.1	2471.3	3134.0	3223.2	3059.6
50°	2132.4	2120.4	2202.4	2267.3	2317.7	2236.9	2233.6	2636.3	3414.5	3512.1	3336.1
52.5°	1994.1	1985.1	2078.4	2191.1	2285.9	2246.7	2322.9	2816.6	3680.7	3807.0	3619.4
55°	1817.5	1805.5	1908.2	2055.5	2206.4	2243.4	2412.1	3018.3	3994.8	4123.0	3912.2
57.5°	1537.4	1513.5	1643.4	1817.5	2076.9	2239.4	2505.0	3218.9	4314.1	4467.6	4224.5
60°	1128.9	1093.4	1252.7	1459.1	1823.7	2200.6	2620.0	3443.8	4697.3	4835.4	4565.6
62.5°	657.3	636.6	740.8	933.5	1374.5	1972.0	2684.6	3705.4	5073.8	5218.9	4900.7
65°	510.4	504.6	513.7	528.6	765.1	1476.5	2485.4	3960.4	5552.6	5654.2	5250.0
67.5°	466.9	462.6	466.6	438.6	388.2	822.5	1966.3	4025.0	6065.6	6127.2	5555.9
70°	415.0	409.9	423.0	399.0	305.4	374.0	1270.5	3790.7	6473.7	6589.4	5788.5
72.5°	338.1	332.3	362.7	351.9	257.2	240.2	638.2	3233.8	6431.0	6671.1	5621.9
75°	259.7	256.5	292.7	301.9	209.7	189.0	306.2	2403.7	5659.3	5901.2	4845.3
77.5°	201.7	199.2	217.7	250.7	169.0	146.6	188.3	1524.8	4264.8	4307.3	3338.9
80°	151.3	144.0	161.0	194.1	131.7	107.0	127.7	889.2	2695.7	2443.7	1453.2
82.5°	94.7	91.0	105.2	129.6	92.9	73.6	83.0	491.2	1080.4	636.3	280.4
85°	54.0	52.6	57.3	74.0	50.4	42.4	47.6	216.9	197.3	135.7	84.6
87.5°	21.7	21.0	26.1	33.0	18.6	15.6	16.7	52.3	43.6	40.3	28.0
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°	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8	1376.8
2.5°	1380.7	1380.7	1375.7	1367.7	1358.6	1352.8	1343.4	1340.8	1331.1	1328.1	1332.8
5°	1397.4	1394.5	1378.9	1356.4	1325.6	1297.2	1266.1	1246.5	1218.9	1209.1	1216.4
7.5°	1418.5	1410.5	1383.6	1334.2	1269.7	1206.2	1140.2	1090.2	1042.2	1025.2	1027.4
10°	1437.7	1426.4	1380.7	1294.4	1182.6	1072.8	967.5	893.9	838.0	815.2	820.2
12.5°	1456.9	1436.2	1361.5	1227.9	1058.9	909.9	797.8	740.5	705.9	678.3	687.5
15°	1475.1	1446.1	1331.8	1139.1	923.2	772.0	689.3	643.6	616.0	597.9	601.2
17.5°	1496.1	1454.4	1287.1	1026.3	794.1	676.6	609.1	581.5	576.0	573.9	575.3
20°	1525.5	1462.0	1228.4	900.1	699.0	600.3	565.6	563.0	562.6	561.6	565.2
22.5°	1557.1	1471.1	1150.8	785.5	618.2	552.9	546.7	541.6	538.3	538.0	542.0
25°	1594.4	1473.9	1053.5	691.5	549.2	530.3	523.2	515.5	513.3	513.3	515.5
27.5°	1630.7	1464.2	940.3	609.9	510.4	509.7	500.3	497.7	497.3	498.5	501.3
30°	1667.0	1445.7	827.9	534.3	487.9	487.9	484.6	486.5	487.9	491.6	494.0
32.5°	1716.0	1426.1	733.9	478.5	468.3	464.7	468.0	471.6	473.0	477.8	481.7
35°	1787.8	1412.2	659.2	448.0	448.0	443.3	445.2	444.4	441.2	439.0	444.0
37.5°	1882.8	1411.5	597.5	433.9	431.0	430.3	430.6	425.9	413.2	398.0	398.3
40°	1997.1	1431.1	550.0	424.0	421.9	426.3	424.0	411.4	376.6	350.0	349.3
42.5°	2150.6	1487.0	519.5	412.2	418.6	424.0	415.3	371.5	347.9	330.2	329.4
45°	2331.2	1577.7	503.9	399.4	412.5	419.0	376.9	357.7	338.9	317.4	316.0
47.5°	2535.8	1692.0	500.3	387.4	398.7	402.7	360.6	351.9	330.5	307.3	305.4
50°	2758.6	1827.3	510.0	373.3	378.7	365.0	355.2	347.2	325.0	302.2	299.6
52.5°	2988.9	1976.4	529.6	354.0	358.7	343.6	353.0	346.0	321.7	290.9	288.7
55°	3215.3	2126.6	548.5	331.6	338.5	324.3	346.9	341.7	306.9	272.0	270.3
57.5°	3445.2	2276.0	567.0	311.6	318.9	305.9	337.0	330.2	290.2	254.7	253.9
60°	3684.4	2421.2	575.7	292.4	297.5	288.7	322.2	310.2	271.3	236.9	235.9
62.5°	3908.2	2542.0	561.6	273.2	276.4	272.9	302.6	286.6	252.5	216.9	216.6
65°	4132.7	2613.8	518.0	254.3	255.0	253.2	275.0	261.2	230.3	199.6	197.3
67.5°	4336.3	2654.0	448.7	234.0	232.2	231.4	249.2	233.6	209.0	182.1	179.9
70°	4379.4	2551.7	342.9	210.0	210.0	208.3	220.9	205.0	185.4	163.6	162.9
72.5°	4000.0	2146.6	243.4	182.9	185.7	182.1	192.6	179.2	161.4	146.9	142.6
75°	3225.5	1574.1	177.0	154.9	160.0	153.9	163.6	154.2	139.0	138.6	124.8
77.5°	2216.2	973.3	128.4	127.7	131.3	123.3	134.6	129.6	115.7	109.6	102.7
80°	945.8	388.2	93.6	98.7	98.7	91.4	104.4	105.9	94.0	91.0	91.0
82.5°	188.3	110.3	65.7	67.9	63.9	61.7	74.0	82.0	113.2	125.9	126.3
85°	56.6	40.6	39.6	37.0	32.7	33.0	43.6	82.3	101.6	58.0	50.0
87.5°	15.6	10.1	10.6	8.3	6.9	9.0	14.9	62.4	34.1	14.6	12.3
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)