

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: P960479

Luminaire Tested: **NVN-SB1C-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1C-827-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6767 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

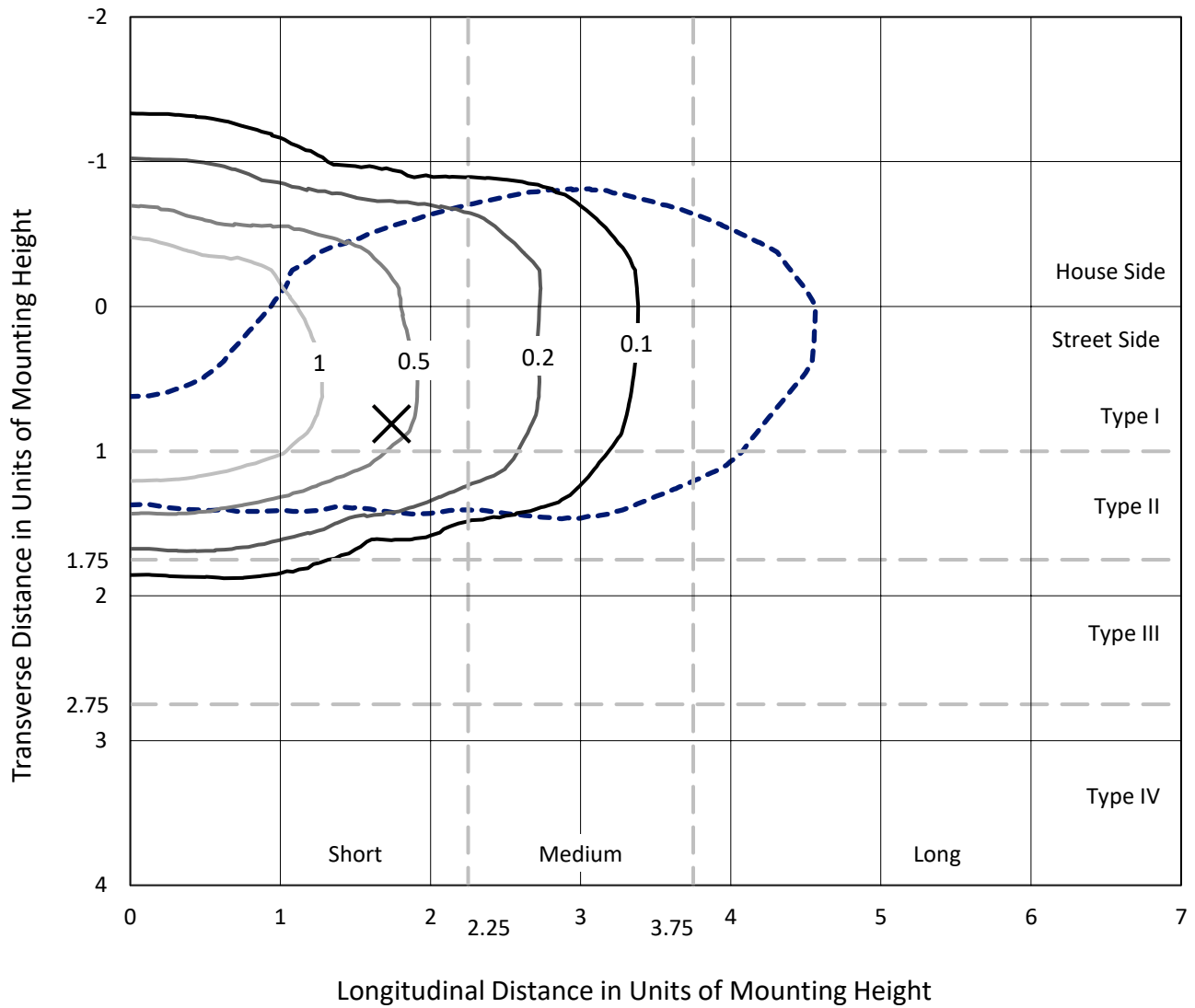
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

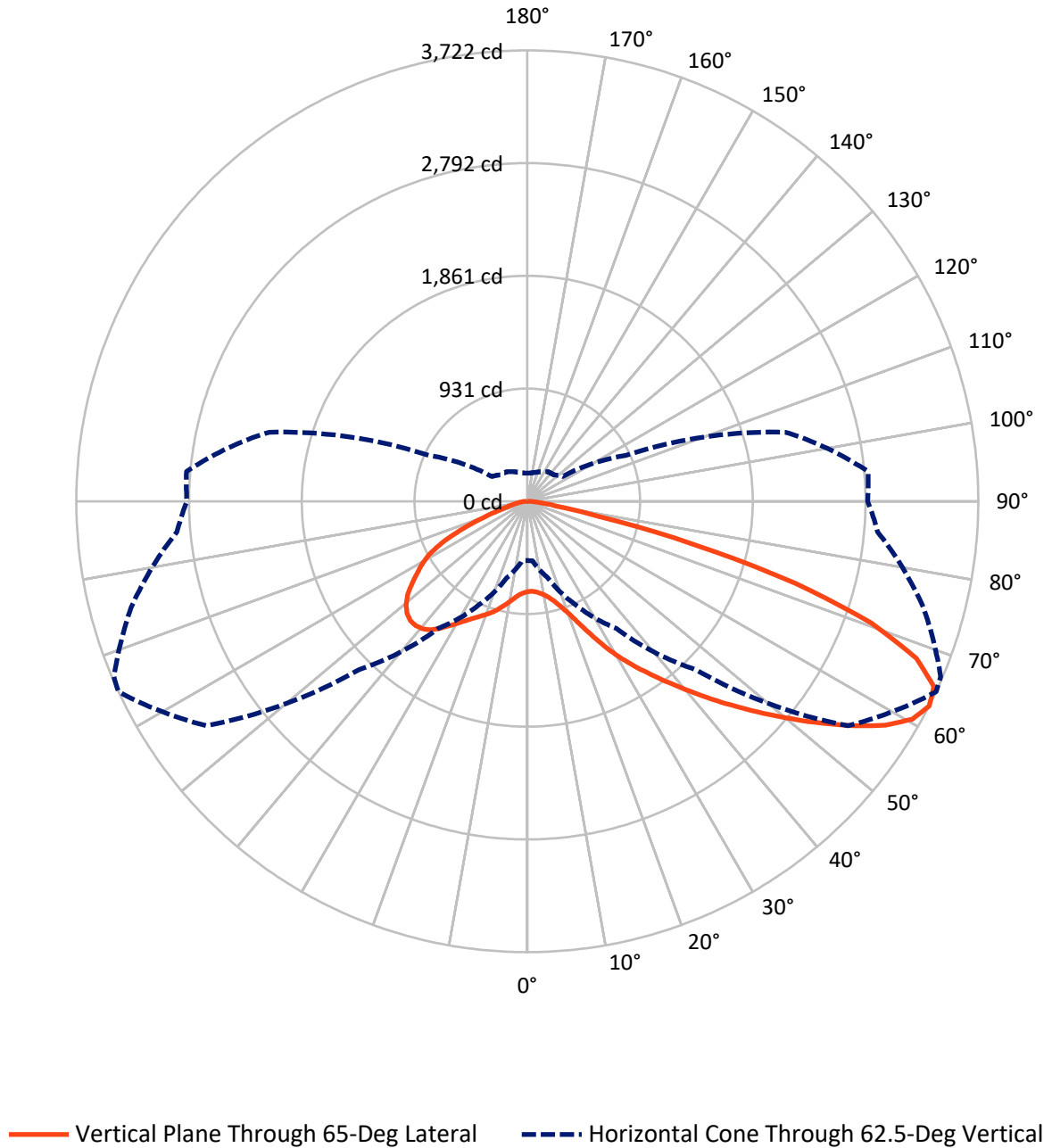
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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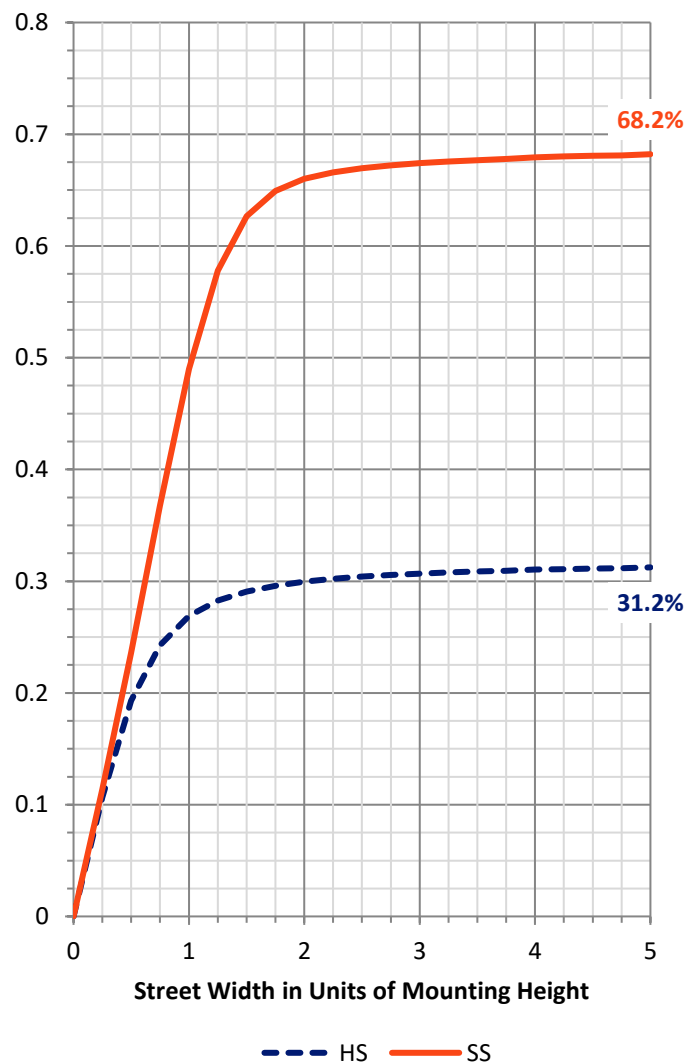
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2135.4	0.0	2135.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	4631.7	0.0	4631.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	6767.0	0.0	6767.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.3	1.1
10°-20°	252.1	3.7
20°-30°	511.2	7.6
30°-40°	884.6	13.1
40°-50°	1338.7	19.8
50°-60°	1569.5	23.2
60°-70°	1315.8	19.4
70°-80°	726.4	10.7
80°-90°	94.4	1.4
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°	6767.0	100.0
0°-180°	6767.0	100.0

Coefficient of Utilization



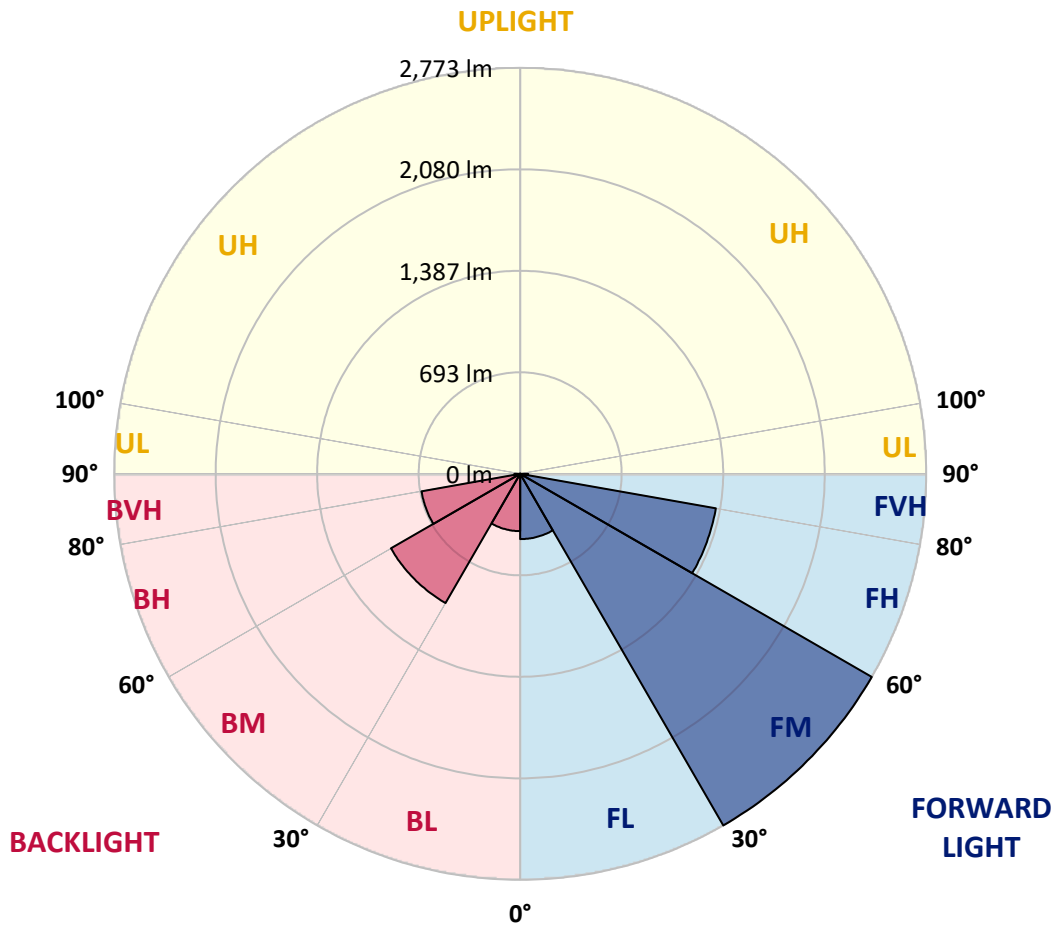
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	446.0	6.6			
FM (30°-60°)	2773.4	41.0			
FH (60°-80°)	1357.3	20.1			G1/1800
FVH (80°-90°)	55.0	0.8			G1/100
BL (0°-30°)	391.6	5.8	B1/500		
BM (30°-60°)	1019.4	15.1	B2/2500		
BH (60°-80°)	685.0	10.1	B2/1000		G2/1000
BVH (80°-90°)	39.4	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7
2.5°	740.8	738.7	740.5	740.5	741.2	740.8	743.2	743.9	745.0	747.1	747.1
5°	733.4	733.1	736.3	739.0	741.8	744.3	747.4	752.0	752.8	755.2	758.3
7.5°	730.9	728.9	733.8	737.3	743.9	749.9	758.3	766.1	769.3	770.3	776.2
10°	749.9	746.4	750.9	753.1	758.7	764.6	774.5	786.8	790.3	794.5	801.1
12.5°	782.2	778.4	785.0	788.2	793.5	798.7	805.3	817.3	819.1	826.8	833.1
15°	826.5	821.8	826.0	829.9	838.8	843.7	850.3	861.9	861.9	867.9	872.5
17.5°	886.5	880.5	883.7	885.1	890.7	898.1	909.3	919.5	924.8	922.6	916.4
20°	976.0	968.6	968.6	961.7	959.5	965.4	980.2	994.2	999.9	989.0	973.5
22.5°	1110.5	1099.9	1094.0	1070.1	1060.7	1061.3	1076.0	1093.3	1097.9	1078.5	1043.8
25°	1281.5	1265.0	1256.9	1221.8	1200.4	1181.7	1193.3	1215.4	1221.8	1197.9	1141.7
27.5°	1452.4	1453.4	1445.8	1403.6	1368.2	1334.1	1328.2	1351.4	1358.0	1331.0	1261.5
30°	1692.2	1667.3	1652.5	1602.0	1551.4	1503.7	1479.1	1488.6	1490.4	1458.1	1377.3
32.5°	1899.0	1892.7	1861.1	1816.8	1751.9	1677.1	1636.0	1620.9	1618.2	1572.1	1476.3
35°	2134.6	2131.1	2097.8	2045.1	1974.9	1870.9	1796.8	1753.7	1750.2	1685.5	1574.3
37.5°	2374.0	2374.0	2341.4	2283.8	2211.1	2081.3	1968.5	1900.0	1888.9	1804.6	1673.9
40°	2565.0	2553.4	2559.4	2535.1	2452.0	2313.9	2159.2	2059.8	2044.7	1943.6	1780.0
42.5°	2673.5	2669.6	2705.5	2732.4	2698.4	2588.2	2369.1	2232.9	2211.8	2096.6	1902.2
45°	2697.7	2693.5	2757.4	2856.4	2904.1	2858.8	2597.4	2415.1	2389.5	2256.7	2033.1
47.5°	2641.9	2633.4	2727.2	2883.4	3036.6	3116.2	2844.5	2612.7	2575.5	2412.6	2167.6
50°	2474.0	2466.0	2607.8	2815.4	3081.1	3291.1	3112.7	2822.3	2765.4	2579.7	2303.5
52.5°	2109.3	2113.1	2335.4	2620.5	3022.5	3399.9	3343.8	3043.2	2974.8	2750.7	2430.9
55°	1643.1	1651.5	1924.6	2238.5	2787.9	3383.4	3501.3	3270.7	3202.6	2911.5	2562.6
57.5°	1176.5	1213.7	1469.6	1780.3	2337.5	3121.8	3535.7	3486.9	3420.9	3087.1	2691.4
60°	762.6	769.3	1032.6	1345.7	1780.0	2657.0	3465.9	3650.9	3599.3	3266.2	2799.2
62.5°	488.7	493.2	653.7	941.3	1281.1	1965.7	3230.7	3722.2	3706.4	3384.4	2902.8
65°	359.2	355.7	439.2	622.1	862.9	1212.3	2773.9	3687.7	3719.0	3458.6	2988.4
67.5°	299.8	294.9	336.0	430.8	635.8	688.5	2052.5	3464.1	3578.6	3450.0	3051.2
70°	273.2	269.0	293.9	319.8	496.1	460.9	1034.6	3011.6	3187.9	3354.2	3041.1
72.5°	231.3	224.0	258.1	284.0	385.8	353.5	427.6	2313.3	2528.2	3047.0	2897.9
75°	179.4	174.5	203.7	250.0	290.0	275.9	270.3	1404.7	1639.2	2356.5	2535.1
77.5°	142.2	135.5	162.2	194.9	260.9	208.2	197.0	605.0	837.3	1504.4	1896.9
80°	107.1	101.1	123.2	154.2	200.5	156.9	127.4	246.8	315.6	762.2	953.9
82.5°	76.2	70.9	86.0	113.1	134.8	140.8	78.3	138.4	155.5	293.9	213.1
85°	48.8	45.6	57.6	70.9	85.7	90.6	47.8	72.4	79.3	121.2	88.9
87.5°	26.6	21.7	30.9	33.0	39.7	36.2	22.9	26.3	28.4	43.9	37.5
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°	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7	745.7
2.5°	748.6	749.6	753.1	754.1	756.6	759.7	761.9	763.9	763.9	766.1	766.1
5°	758.7	761.2	768.5	772.3	778.7	785.0	788.8	793.5	796.2	797.7	798.4
7.5°	778.4	782.2	792.7	799.4	810.3	819.1	825.0	831.4	832.8	836.6	835.3
10°	805.0	809.6	821.5	834.1	847.2	858.0	863.7	868.3	870.0	870.6	868.9
12.5°	835.6	842.2	857.7	873.1	886.8	896.4	897.7	896.7	891.7	887.5	887.5
15°	873.1	879.1	896.4	913.2	926.5	928.2	919.5	913.9	907.9	906.8	906.8
17.5°	918.1	921.3	937.1	953.6	954.6	948.6	935.6	930.4	924.8	920.9	921.3
20°	970.4	969.3	980.6	987.6	980.2	962.0	942.3	933.6	927.9	923.3	923.7
22.5°	1032.9	1024.8	1023.4	1021.6	1002.0	963.7	937.1	925.8	917.1	910.7	912.9
25°	1123.8	1093.0	1071.5	1059.5	1015.4	954.3	920.1	895.2	878.7	867.9	872.1
27.5°	1237.6	1185.6	1131.5	1102.4	1015.4	934.9	879.4	839.1	812.0	800.8	806.5
30°	1346.0	1291.6	1212.0	1154.0	1012.9	903.3	813.8	757.7	726.0	714.8	721.5
32.5°	1438.7	1379.4	1297.2	1210.5	1006.9	852.1	732.4	670.2	639.7	626.4	633.0
35°	1524.8	1461.5	1382.9	1272.6	991.1	776.9	642.9	595.4	561.4	540.0	546.9
37.5°	1612.8	1537.7	1464.0	1328.8	962.7	689.2	574.0	533.6	493.6	464.8	472.5
40°	1708.7	1618.9	1550.7	1362.2	915.9	605.6	520.7	483.8	441.3	410.7	416.8
42.5°	1820.7	1716.1	1647.3	1379.4	852.1	546.3	485.8	449.8	409.7	384.8	389.7
45°	1937.7	1823.2	1735.4	1379.0	780.8	518.5	474.7	438.8	394.6	368.6	372.9
47.5°	2060.1	1935.2	1811.6	1356.6	719.0	522.4	468.3	415.3	366.5	341.2	344.8
50°	2183.0	2057.7	1885.3	1314.5	692.7	513.9	444.8	382.3	324.7	302.0	303.3
52.5°	2304.8	2188.0	1948.8	1254.4	666.0	482.8	414.6	339.5	307.5	291.7	291.7
55°	2427.4	2316.8	2018.0	1167.0	599.3	446.2	364.1	323.4	293.9	279.4	278.1
57.5°	2550.3	2465.6	2083.7	1079.5	515.4	401.3	336.3	303.7	280.1	267.8	265.8
60°	2678.0	2635.9	2151.5	999.2	432.6	343.7	316.0	287.9	264.0	250.3	249.3
62.5°	2809.7	2823.4	2204.5	895.6	356.4	308.6	297.8	269.0	245.8	232.8	232.4
65°	2942.5	3004.2	2239.2	752.0	288.9	275.2	278.1	248.3	224.7	213.5	213.1
67.5°	3042.5	3134.4	2229.4	569.1	237.0	243.6	253.5	226.4	204.3	195.6	195.9
70°	3053.7	3119.0	2132.5	389.7	198.3	212.8	226.1	205.0	182.2	175.9	176.2
72.5°	2904.1	2908.3	1862.5	254.5	167.8	186.8	197.3	183.3	161.1	154.9	154.5
75°	2512.0	2405.3	1367.5	167.8	140.4	160.4	170.3	160.4	139.0	140.4	135.5
77.5°	1903.2	1703.4	830.4	119.4	117.3	134.8	148.1	141.1	122.9	138.0	121.5
80°	980.6	921.6	370.4	89.2	92.7	107.8	121.9	112.6	97.3	92.7	84.6
82.5°	224.7	261.2	146.1	63.9	67.0	77.6	93.1	84.6	69.9	58.9	58.3
85°	78.6	86.0	64.6	40.0	39.4	48.5	63.2	56.5	47.4	37.9	40.0
87.5°	24.9	32.7	24.2	16.2	16.8	21.7	29.1	26.6	22.1	14.3	15.1
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)