

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: P881784

Luminaire Tested: **NVN-SB1B-835-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1B-835-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4714 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

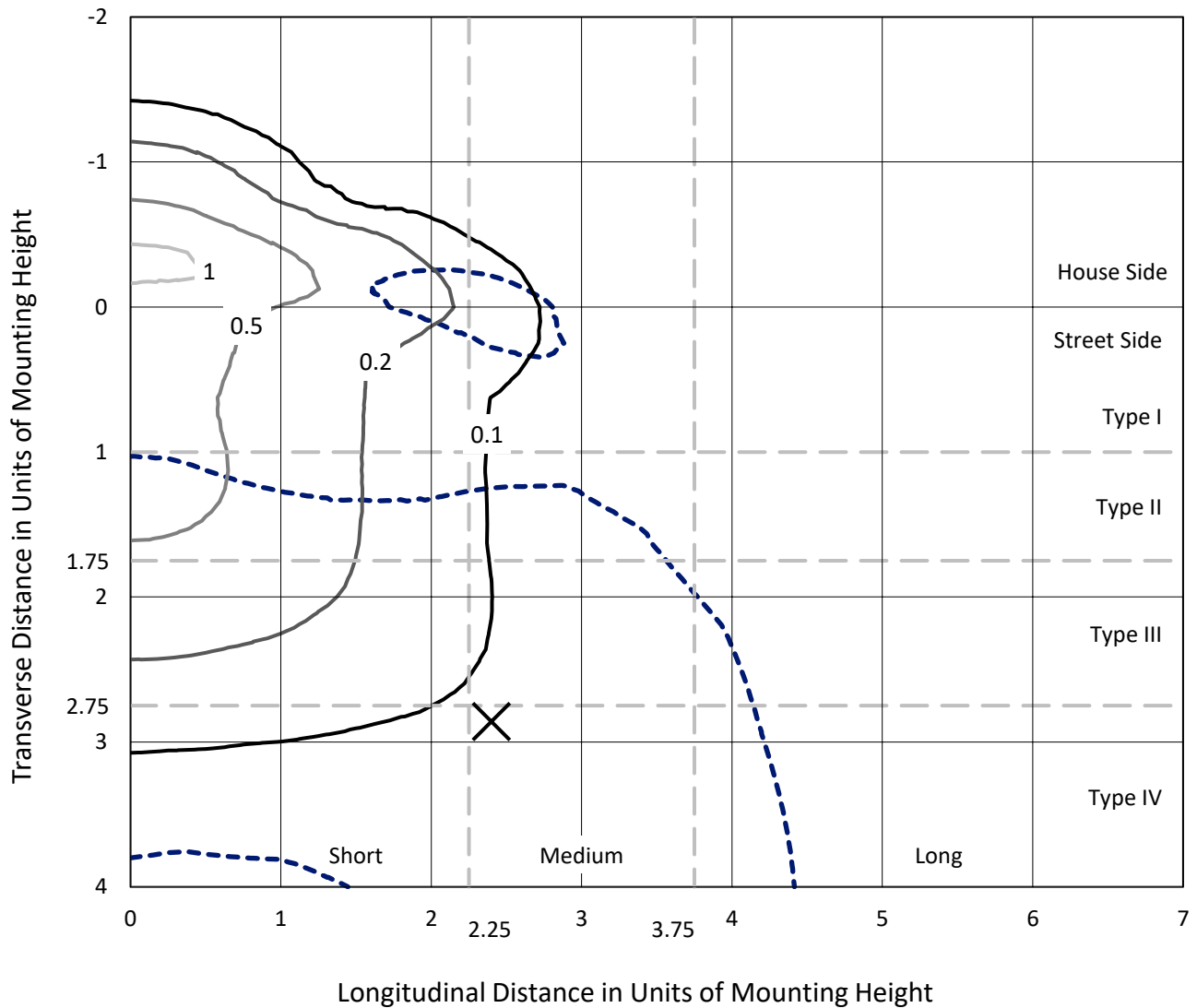
Input Watts (W): 39.8
Input Voltage (V): 120.0
Input Current (Ain): 0.33
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 5.305
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P881784
 CATALOG NUMBER: NVN-SB1B-835-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

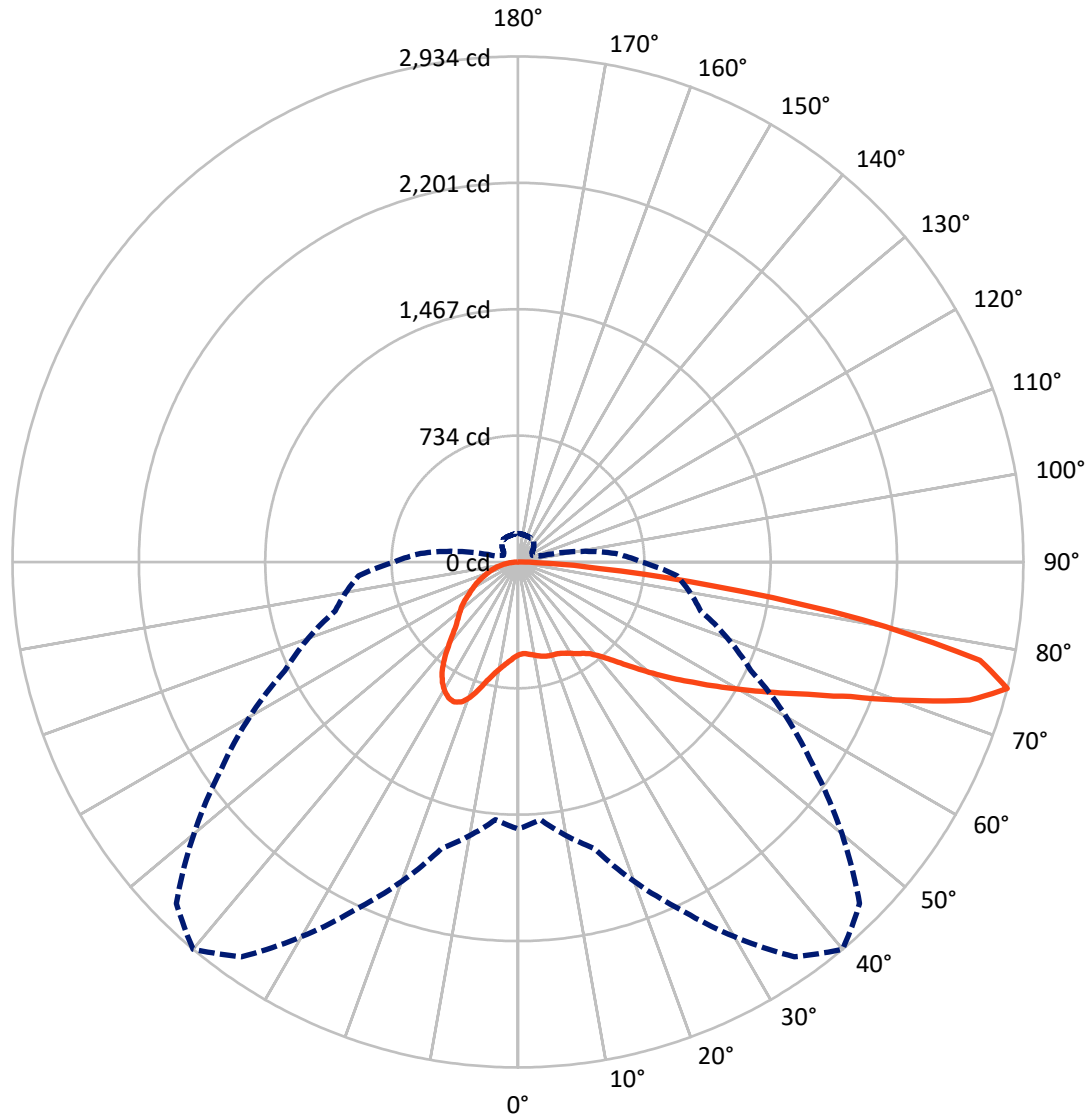
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P881784
CATALOG NUMBER: NVN-SB1B-835-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P881784

CATALOG NUMBER: NVN-SB1B-835-U-SL4

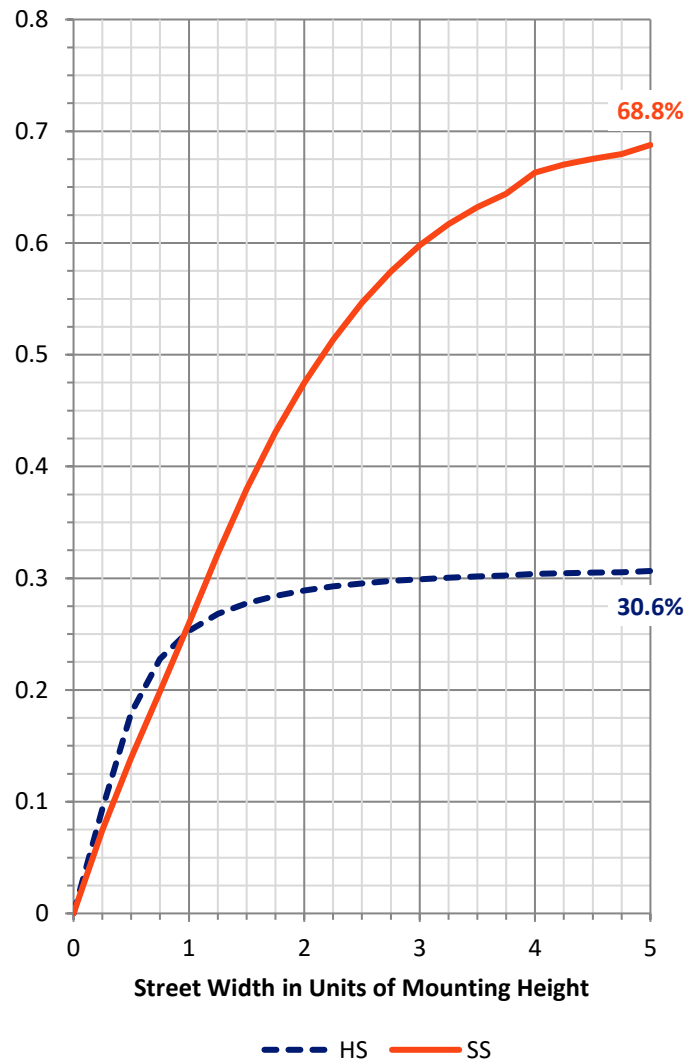
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1460.6	0.0	1460.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	3253.5	0.0	3253.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	4714.0	0.0	4714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.8	1.1
10°-20°	180.7	3.8
20°-30°	329.9	7.0
30°-40°	467.8	9.9
40°-50°	631.7	13.4
50°-60°	849.8	18.0
60°-70°	1078.6	22.9
70°-80°	978.9	20.8
80°-90°	142.7	3.0
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°	4714.0	100.0
0°-180°	4714.0	100.0

Coefficient of Utilization



REPORT NUMBER: P881784

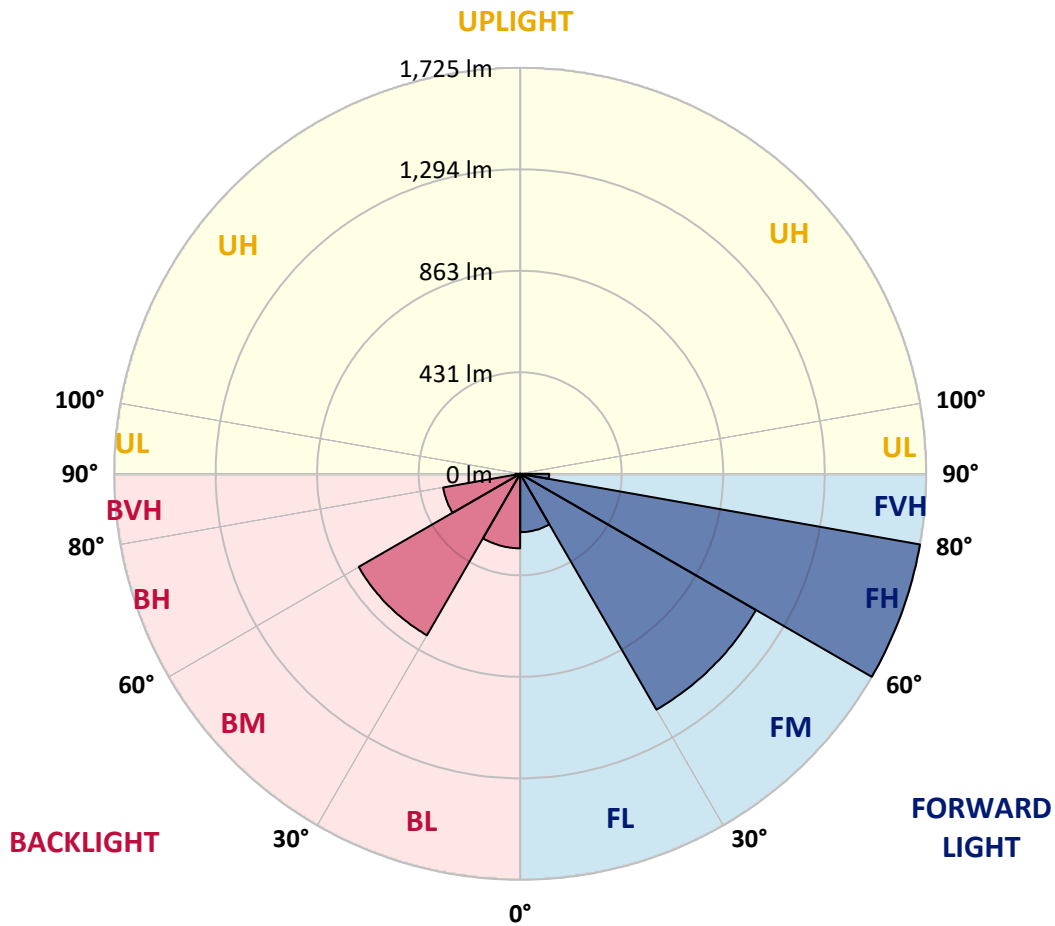
CATALOG NUMBER: NVN-SB1B-835-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.0	5.3			
FM (30°-60°)	1157.2	24.5			
FH (60°-80°)	1725.3	36.6			G1/1800
FVH (80°-90°)	123.1	2.6			G2/225
BL (0°-30°)	316.4	6.7	B1/500		
BM (30°-60°)	792.2	16.8	B1/1000		
BH (60°-80°)	332.3	7.0	B1/500		G1/500
BVH (80°-90°)	19.7	0.4			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 IV Medium



REPORT NUMBER: P881784

CATALOG NUMBER: NVN-SB1B-835-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1
2.5°	530.8	533.8	533.1	532.1	532.1	532.3	532.1	533.8	535.6	537.3	540.1
5°	536.3	539.3	537.8	536.6	535.6	535.3	534.6	534.3	535.3	537.6	541.3
7.5°	547.1	550.1	547.8	545.6	543.6	542.6	541.6	540.1	539.3	540.6	545.8
10°	559.1	562.1	559.3	555.3	552.1	550.8	549.8	548.3	547.3	548.1	553.8
12.5°	571.1	574.1	570.3	564.8	560.6	559.8	558.6	558.1	557.8	557.6	563.3
15°	582.3	584.8	580.1	573.6	569.1	567.8	566.6	567.3	568.6	570.1	576.6
17.5°	591.1	593.6	586.6	578.1	573.8	573.3	572.6	575.1	578.6	582.3	590.3
20°	599.1	601.6	592.6	581.1	576.1	576.1	576.3	581.6	586.6	592.1	603.1
22.5°	610.3	612.3	601.3	585.6	578.3	578.8	580.8	586.1	592.3	599.8	615.1
25°	627.1	628.6	615.1	594.1	585.8	587.3	589.1	591.6	597.6	606.3	626.8
27.5°	654.1	655.3	637.6	609.1	596.6	599.1	601.6	599.8	602.6	610.1	636.3
30°	692.1	692.8	670.3	632.6	614.8	616.1	616.6	609.3	604.1	610.1	643.1
32.5°	737.1	736.8	710.1	661.1	635.6	634.3	630.1	615.8	603.6	608.8	649.1
35°	806.8	804.1	769.6	701.1	659.1	651.3	641.3	623.1	606.1	607.6	654.3
37.5°	922.3	913.8	866.1	766.6	694.1	674.3	659.6	634.8	611.6	607.1	660.6
40°	1052.6	1041.9	989.3	856.3	746.6	714.8	691.1	651.6	620.6	609.3	669.8
42.5°	1207.1	1191.9	1135.4	962.1	813.1	767.1	731.3	672.8	633.8	616.6	682.3
45°	1396.9	1376.6	1296.6	1081.4	896.8	835.6	787.8	705.1	654.1	630.6	701.1
47.5°	1588.7	1593.7	1479.9	1217.9	997.3	920.1	858.6	753.6	683.6	653.1	731.3
50°	1792.4	1795.9	1662.2	1369.1	1111.4	1015.6	938.1	807.8	724.6	685.1	776.6
52.5°	1951.4	1951.9	1827.7	1527.4	1230.1	1120.6	1023.8	869.8	772.1	727.6	836.8
55°	2050.9	2049.7	1943.7	1677.2	1366.6	1230.9	1118.9	940.3	830.1	777.6	912.6
57.5°	2123.2	2119.5	2023.7	1805.9	1512.1	1361.1	1226.4	1020.3	898.6	837.1	1012.3
60°	2150.7	2148.5	2078.0	1917.2	1665.2	1505.1	1350.4	1109.9	976.3	907.3	1140.6
62.5°	2161.2	2165.5	2131.2	2024.9	1828.9	1664.7	1486.6	1216.9	1063.9	986.8	1275.9
65°	2198.2	2206.0	2199.0	2166.0	2013.9	1851.4	1667.4	1344.1	1159.4	1072.1	1417.1
67.5°	2271.5	2279.2	2282.2	2334.7	2240.0	2084.2	1892.9	1502.6	1271.1	1160.6	1523.4
70°	2269.7	2267.5	2320.5	2469.0	2523.0	2406.5	2197.0	1697.7	1404.4	1234.1	1536.9
72.5°	2065.9	2047.9	2173.2	2467.5	2758.5	2743.0	2568.2	1949.2	1519.4	1243.1	1333.6
75°	1549.9	1501.9	1723.2	2223.7	2797.8	2934.0	2804.3	2105.2	1492.1	1098.4	928.1
77.5°	662.8	614.6	875.3	1646.2	2504.0	2742.8	2587.8	1836.7	1191.1	726.3	455.8
80°	173.5	173.3	264.5	746.3	1702.9	2025.4	1776.9	1186.1	680.6	259.5	125.8
82.5°	71.8	70.0	97.3	290.3	832.1	1136.6	927.6	529.1	245.8	70.3	41.8
85°	26.8	26.5	47.3	100.3	293.5	468.8	339.3	135.3	61.3	34.3	18.8
87.5°	7.5	7.3	10.3	34.8	71.5	108.5	58.0	22.3	17.3	13.5	5.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P881784

CATALOG NUMBER: NVN-SB1B-835-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1
2.5°	540.8	542.1	544.3	546.1	548.3	550.8	554.3	556.6	558.8	560.3	559.3
5°	543.1	545.8	551.6	557.3	564.1	570.3	577.6	582.8	587.1	588.3	588.8
7.5°	548.1	552.6	562.3	572.1	582.8	593.1	603.6	612.6	619.8	622.6	622.8
10°	556.8	562.8	576.6	590.3	604.6	620.3	633.8	646.8	657.1	661.3	661.6
12.5°	567.8	575.3	593.3	612.3	632.1	653.8	671.3	687.3	700.1	705.8	705.8
15°	582.1	591.8	614.8	640.3	669.3	699.6	721.8	739.6	753.8	760.8	760.3
17.5°	597.6	610.6	639.6	678.1	719.6	759.3	785.3	798.3	813.1	819.8	819.6
20°	612.6	628.6	670.1	726.1	781.3	823.6	844.6	848.1	849.1	849.8	851.8
22.5°	628.1	649.6	708.3	786.6	845.8	875.1	878.1	863.1	842.1	832.3	835.1
25°	645.1	673.6	758.3	853.3	901.3	904.8	881.8	845.3	805.6	787.3	790.1
27.5°	661.6	701.3	818.3	917.1	941.3	910.6	861.1	809.3	761.3	742.1	744.3
30°	678.1	733.1	884.6	972.8	959.6	896.3	828.3	770.6	722.3	702.1	704.3
32.5°	694.8	770.1	960.8	1013.1	956.3	866.1	787.6	727.1	684.6	663.3	666.1
35°	713.8	815.6	1033.1	1035.1	934.6	821.6	733.8	675.1	638.1	621.1	624.8
37.5°	738.6	873.3	1096.9	1040.6	896.6	756.3	667.1	613.6	583.1	575.3	580.8
40°	769.3	942.8	1145.6	1031.8	840.3	677.1	594.1	551.3	534.1	535.8	541.8
42.5°	809.3	1020.6	1179.9	1009.3	762.1	595.3	530.1	511.0	519.3	526.3	532.8
45°	861.3	1101.4	1201.1	971.1	673.6	526.1	492.3	496.8	503.0	503.8	508.8
47.5°	927.8	1183.1	1215.1	913.3	583.3	477.3	468.3	469.3	468.0	462.8	466.8
50°	1010.8	1262.6	1227.6	836.8	506.5	446.8	434.8	431.3	414.0	397.0	399.3
52.5°	1105.4	1335.6	1232.9	741.8	446.8	421.3	401.8	379.8	347.5	342.3	344.0
55°	1210.4	1403.1	1219.4	625.1	396.5	388.5	359.0	332.5	329.0	324.5	325.3
57.5°	1335.9	1475.9	1191.9	494.8	345.0	350.3	321.5	324.5	318.3	311.3	310.0
60°	1473.1	1551.2	1143.6	376.0	291.8	302.5	311.8	311.5	309.8	304.0	302.0
62.5°	1596.7	1600.7	1048.6	288.0	245.0	265.5	290.8	290.5	289.0	285.8	284.5
65°	1670.2	1593.2	890.1	226.8	206.5	235.0	262.3	264.3	264.5	264.3	264.3
67.5°	1657.2	1505.4	672.6	180.5	174.8	204.0	234.0	236.8	238.8	239.3	239.8
70°	1510.1	1312.6	438.5	144.0	146.5	176.8	207.3	210.0	211.8	213.8	214.8
72.5°	1177.1	965.1	251.0	116.5	121.8	153.3	180.8	184.0	185.0	188.8	190.3
75°	717.3	567.6	135.5	91.8	100.0	131.0	154.5	158.3	160.0	164.5	165.0
77.5°	341.0	245.8	77.3	71.5	80.5	107.0	130.5	134.8	130.0	132.5	130.5
80°	115.3	91.3	48.8	54.5	61.5	83.5	104.5	108.8	98.8	98.3	97.3
82.5°	40.3	37.0	31.0	36.3	39.8	59.8	79.0	84.5	73.5	73.3	69.8
85°	15.8	15.0	17.3	19.8	23.8	36.8	52.0	54.8	45.3	36.5	36.0
87.5°	3.3	3.5	4.3	4.5	7.3	12.8	18.8	23.0	18.3	15.5	14.3
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)