

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: McGRAW-EDISON

Report Number: P528344

Luminaire Tested: **GALN-SA3B-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11322 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 121
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



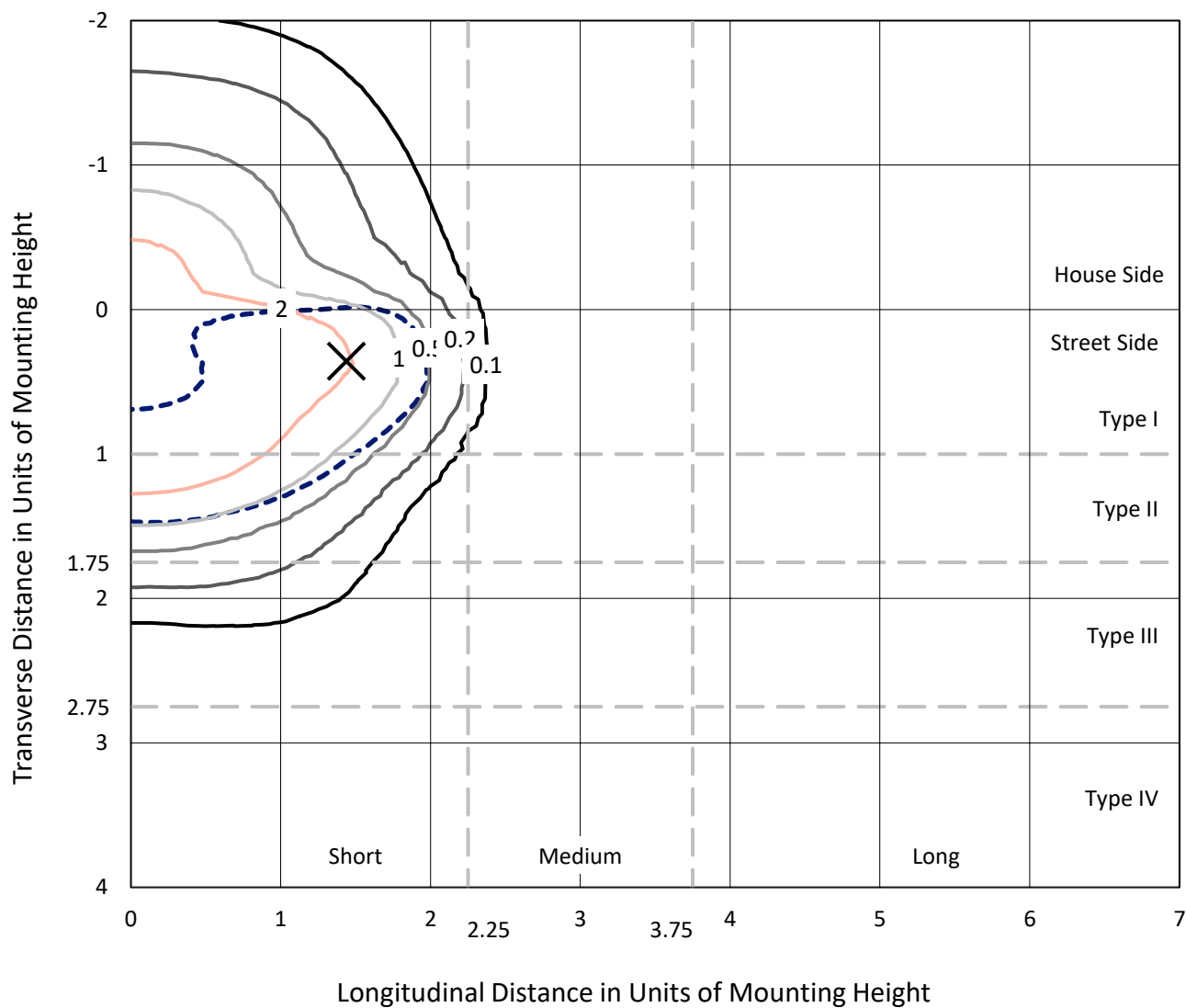
REPORT NUMBER: P528344

CATALOG NUMBER: GALN-SA3B-830-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

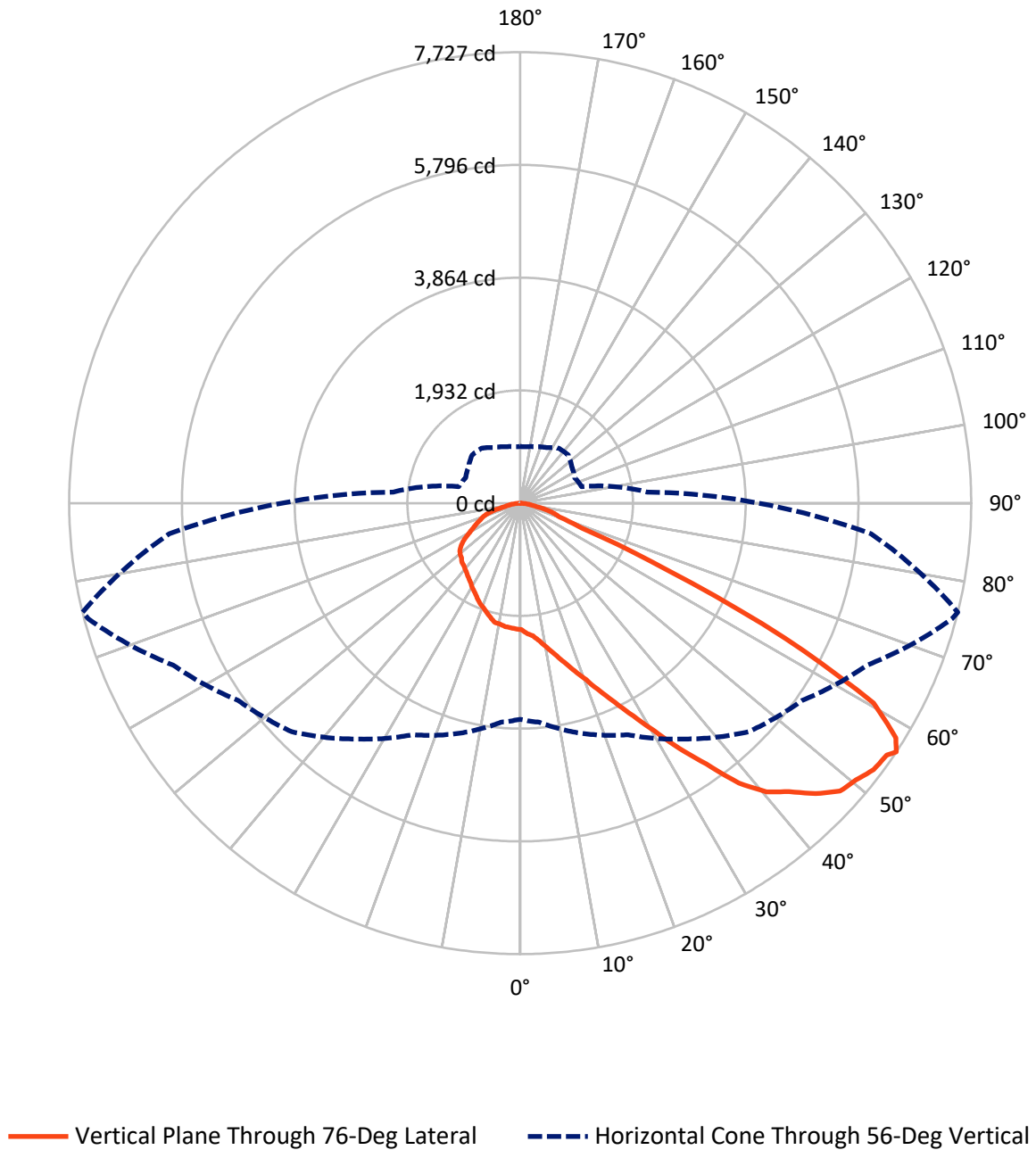


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc

Type II - Short - N/A

REPORT NUMBER: P528344
CATALOG NUMBER: GALN-SA3B-830-U-T2-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P528344

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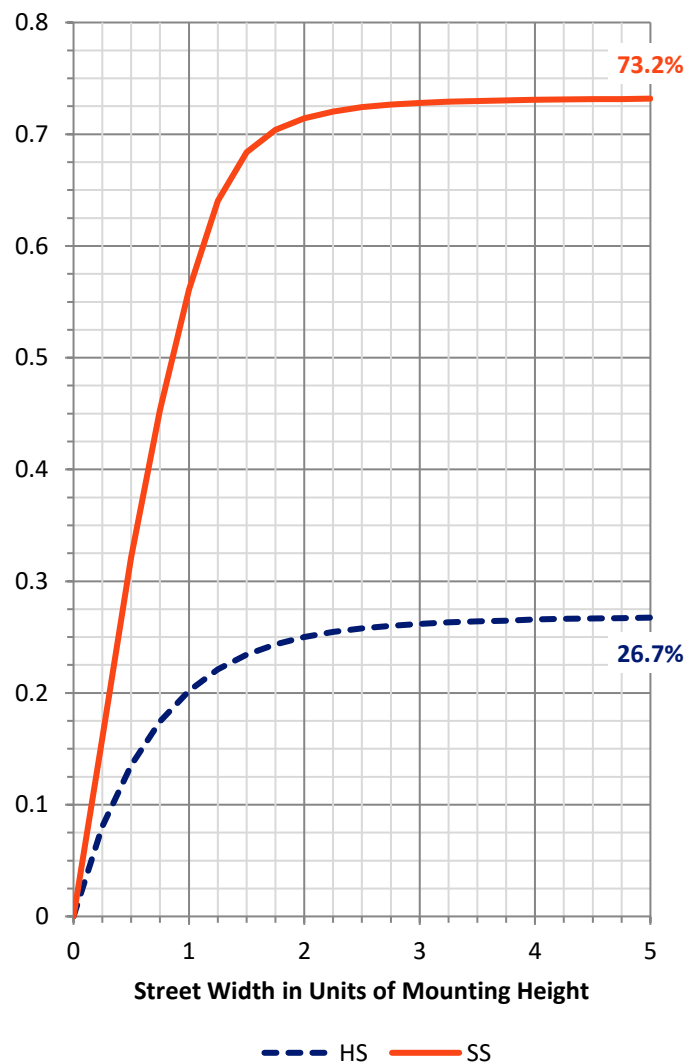
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3044.1	0.0	3044.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	8277.8	0.0	8277.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	11322.0	0.0	11322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.8	1.9
10°-20°	674.9	6.0
20°-30°	1180.2	10.4
30°-40°	1847.9	16.3
40°-50°	2688.2	23.7
50°-60°	2954.5	26.1
60°-70°	1318.8	11.6
70°-80°	380.9	3.4
80°-90°	61.8	0.5
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°	11322.0	100.0
0°-180°	11322.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528344

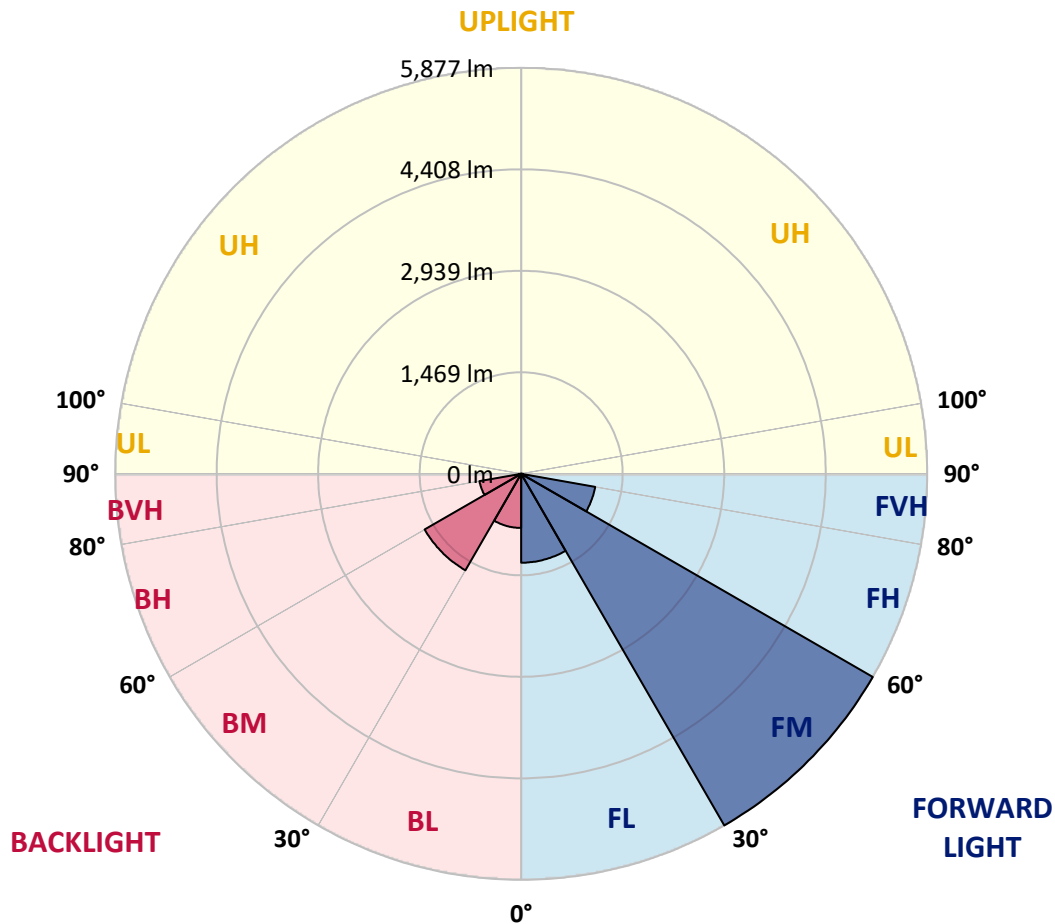
CATALOG NUMBER: GALN-SA3B-830-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1286.6	11.4			
FM	(30°-60°)	5877.5	51.9			
FH	(60°-80°)	1087.2	9.6			G1/1800
FVH	(80°-90°)	26.6	0.2			G1/100
BL	(0°-30°)	783.3	6.9	B2/1000		
BM	(30°-60°)	1613.2	14.2	B2/2500		
BH	(60°-80°)	612.5	5.4	B2/1000		G2/1000
BVH	(80°-90°)	35.2	0.3			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



REPORT NUMBER: P528344

CATALOG NUMBER: GALN-SA3B-830-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2166.3	2166.3	2166.3	2166.3	2166.3	2166.3	2166.3	2166.3	2166.3	2166.3	2166.3
2.5°	2386.5	2348.3	2345.4	2335.1	2341.0	2314.6	2286.7	2250.0	2211.8	2235.3	2179.5
5°	2553.8	2502.4	2523.0	2487.7	2492.1	2456.9	2399.7	2357.1	2310.2	2282.3	2242.6
7.5°	2612.5	2616.9	2631.6	2625.7	2596.4	2596.4	2558.2	2483.3	2401.2	2385.0	2319.0
10°	2691.8	2693.2	2677.1	2681.5	2722.6	2703.5	2669.7	2637.4	2531.8	2512.7	2395.3
12.5°	2719.6	2693.2	2719.6	2743.1	2791.6	2818.0	2810.6	2787.2	2674.1	2660.9	2489.2
15°	2724.0	2707.9	2729.9	2782.8	2825.3	2936.9	2992.6	2976.5	2826.8	2828.3	2594.9
17.5°	2703.5	2725.5	2734.3	2779.8	2878.2	2982.4	3143.8	3165.8	3042.5	3023.5	2728.4
20°	2731.4	2715.2	2727.0	2768.1	2898.7	3061.6	3273.0	3418.3	3245.1	3231.9	2866.4
22.5°	2838.5	2816.5	2813.6	2840.0	2933.9	3102.7	3409.5	3670.7	3491.6	3499.0	3038.1
25°	2922.2	2933.9	2923.7	2922.2	2980.9	3164.4	3590.0	3971.6	3826.3	3783.7	3240.7
27.5°	3066.0	3093.9	3073.4	3101.2	3088.0	3256.8	3719.1	4304.8	4187.3	4130.1	3424.1
30°	3265.6	3280.3	3261.2	3261.2	3221.6	3386.0	3836.6	4652.6	4604.2	4526.4	3639.9
32.5°	3528.3	3550.4	3512.2	3490.2	3484.3	3578.2	4047.9	4996.0	5078.2	5012.2	3926.1
35°	3876.2	3863.0	3817.5	3796.9	3717.7	3873.2	4362.0	5390.8	5606.6	5489.2	4272.5
37.5°	4182.9	4162.4	4159.5	4045.0	4064.1	4191.7	4629.1	5690.3	6118.8	6085.1	4637.9
40°	4469.1	4488.2	4519.0	4454.5	4425.1	4566.0	4940.3	5919.2	6516.6	6503.4	4919.7
42.5°	4775.9	4758.3	4812.6	4758.3	4714.2	4913.8	5277.8	6077.7	6865.9	6757.3	5214.7
45°	5220.6	5164.8	5183.9	5188.3	5156.0	5229.4	5417.3	6192.2	7111.0	7099.2	5430.5
47.5°	5591.9	5593.4	5561.1	5536.1	5437.8	5511.2	5572.8	6264.1	7392.8	7373.7	5514.1
50°	5729.9	5710.8	5804.7	5859.0	5864.9	5715.2	5694.7	6303.8	7541.0	7457.4	5597.8
52.5°	5233.8	5251.4	5399.7	5722.5	5908.9	5925.1	5837.0	6385.9	7601.2	7583.6	5665.3
55°	4212.3	4297.4	4541.1	4913.8	5355.6	5841.4	5991.1	6471.1	7633.5	7618.8	5964.7
56°	3703.0	3769.0	4086.1	4378.1	4932.9	5537.6	5894.3	6562.1	7658.4	7727.4	6035.2
57.5°	2980.9	3057.2	3284.7	3616.4	4271.0	4959.3	5627.1	6450.5	7561.6	7588.0	6086.5
60°	1864.0	1871.3	2144.3	2363.0	2823.8	3496.1	4294.5	5612.5	6998.0	6959.8	5467.2
62.5°	1222.6	1224.1	1472.1	1651.2	1861.0	2015.1	2527.4	3722.1	5163.4	5095.8	3892.3
65°	858.6	877.7	1070.0	1309.2	1394.3	1313.6	1297.4	1962.3	2884.0	2787.2	2091.5
67.5°	628.2	629.6	799.9	1056.7	1180.0	999.5	811.6	958.4	1141.9	1138.9	968.7
70°	415.4	433.0	563.6	789.6	930.5	802.8	663.4	685.4	726.5	726.5	720.6
72.5°	242.2	258.3	344.9	500.5	522.5	502.0	525.4	587.1	613.5	612.0	604.7
75°	138.0	145.3	164.4	208.4	259.8	306.7	386.0	444.7	471.1	487.3	468.2
77.5°	80.7	85.1	96.9	118.9	135.0	165.8	209.9	251.0	286.2	281.8	284.7
80°	42.6	42.6	54.3	70.4	93.9	117.4	139.4	162.9	182.0	186.4	190.8
82.5°	25.0	26.4	35.2	51.4	67.5	83.7	107.1	123.3	140.9	142.4	145.3
85°	13.2	14.7	22.0	33.8	45.5	51.4	52.8	49.9	54.3	51.4	58.7
87.5°	4.4	4.4	7.3	5.9	5.9	7.3	8.8	8.8	11.7	11.7	11.7
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: P528344

CATALOG NUMBER: GALN-SA3B-830-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2166.3	2166.3	2166.3	2166.3	2166.3	2166.3	2166.3	2166.3	2166.3	2166.3	2166.3
2.5°	2178.1	2178.1	2153.1	2106.1	2098.8	2079.7	2062.1	2060.6	2047.4	2035.7	2029.8
5°	2219.2	2173.7	2137.0	2094.4	2044.5	2021.0	1994.6	1965.2	1953.5	1965.2	1963.8
7.5°	2266.1	2228.0	2117.9	2038.6	1981.4	1957.9	1928.6	1897.7	1900.7	1900.7	1880.1
10°	2311.6	2260.3	2084.1	1982.9	1899.2	1881.6	1865.4	1877.2	1891.9	1894.8	1881.6
12.5°	2387.9	2272.0	2068.0	1927.1	1874.2	1836.1	1846.4	1878.7	1909.5	1900.7	1910.9
15°	2445.2	2282.3	1994.6	1869.8	1803.8	1821.4	1858.1	1880.1	1931.5	1925.6	1935.9
17.5°	2501.0	2288.1	1922.7	1793.5	1765.6	1814.1	1842.0	1905.1	1921.2	1956.4	1969.6
20°	2615.4	2299.9	1849.3	1746.6	1737.8	1793.5	1842.0	1871.3	1906.5	1937.4	1937.4
22.5°	2674.1	2294.0	1800.9	1684.9	1712.8	1748.0	1792.1	1842.0	1842.0	1871.3	1872.8
25°	2747.5	2270.5	1724.5	1655.6	1676.1	1709.9	1759.8	1742.2	1761.2	1761.2	1784.7
27.5°	2831.2	2220.6	1658.5	1602.7	1643.8	1680.5	1687.9	1676.1	1654.1	1651.2	1642.4
30°	2898.7	2159.0	1610.1	1585.1	1618.9	1639.4	1615.9	1591.0	1552.8	1549.9	1529.3
32.5°	2991.2	2082.7	1549.9	1541.1	1579.2	1580.7	1573.4	1535.2	1479.4	1456.0	1432.5
35°	3146.7	2038.6	1504.4	1517.6	1529.3	1524.9	1511.7	1470.6	1414.9	1404.6	1395.8
37.5°	3261.2	2006.3	1457.4	1473.6	1483.8	1489.7	1450.1	1404.6	1406.1	1385.5	1379.6
40°	3390.4	1985.8	1419.3	1426.6	1428.1	1447.1	1398.7	1376.7	1387.0	1373.8	1382.6
42.5°	3556.2	1991.7	1379.6	1373.8	1401.6	1394.3	1370.8	1341.5	1347.3	1307.7	1313.6
45°	3644.3	2031.3	1356.2	1329.7	1360.6	1359.1	1328.3	1300.4	1265.2	1188.8	1191.8
47.5°	3703.0	2041.6	1300.4	1282.8	1315.1	1334.1	1298.9	1234.3	1184.4	1130.1	1116.9
50°	3763.2	2060.6	1274.0	1237.3	1250.5	1296.0	1251.9	1190.3	1141.9	1093.4	1100.8
52.5°	3816.0	2097.3	1222.6	1168.3	1191.8	1241.7	1218.2	1143.3	1090.5	1050.9	1039.1
55°	4050.8	2179.5	1136.0	1065.5	1121.3	1184.4	1171.2	1080.2	1023.0	1002.4	999.5
56°	4087.5	2182.5	1090.5	1030.3	1081.7	1165.4	1149.2	1052.3	1001.0	968.7	970.1
57.5°	4093.4	2147.2	1025.9	998.0	1042.1	1137.5	1116.9	1030.3	959.9	930.5	921.7
60°	3601.7	1676.1	945.2	927.6	979.0	1052.3	1045.0	970.1	890.9	857.1	873.3
62.5°	2455.5	1228.5	882.1	879.1	905.6	977.5	958.4	890.9	824.8	802.8	792.6
65°	1429.5	932.0	820.4	808.7	830.7	868.9	882.1	811.6	742.7	728.0	723.6
67.5°	843.9	770.5	741.2	722.1	714.8	738.3	748.5	707.4	638.4	617.9	635.5
70°	706.0	685.4	686.9	654.6	637.0	620.8	612.0	575.3	518.1	491.7	484.3
72.5°	609.1	600.3	594.4	565.1	548.9	512.2	474.1	437.4	394.8	372.8	374.3
75°	465.3	462.3	465.3	450.6	422.7	393.3	358.1	311.2	278.9	251.0	256.8
77.5°	277.4	286.2	290.6	284.7	273.0	246.6	224.6	193.7	162.9	140.9	138.0
80°	190.8	198.1	205.5	198.1	186.4	167.3	143.8	120.4	98.3	86.6	83.7
82.5°	145.3	152.6	157.0	149.7	135.0	114.5	98.3	82.2	64.6	52.8	49.9
85°	52.8	60.2	58.7	70.4	76.3	73.4	63.1	48.4	36.7	26.4	25.0
87.5°	14.7	13.2	14.7	14.7	14.7	13.2	11.7	11.7	11.7	7.3	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

(END OF REPORT)