

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: P530074

Luminaire Tested: **GALN-SA5B-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530074
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23953 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

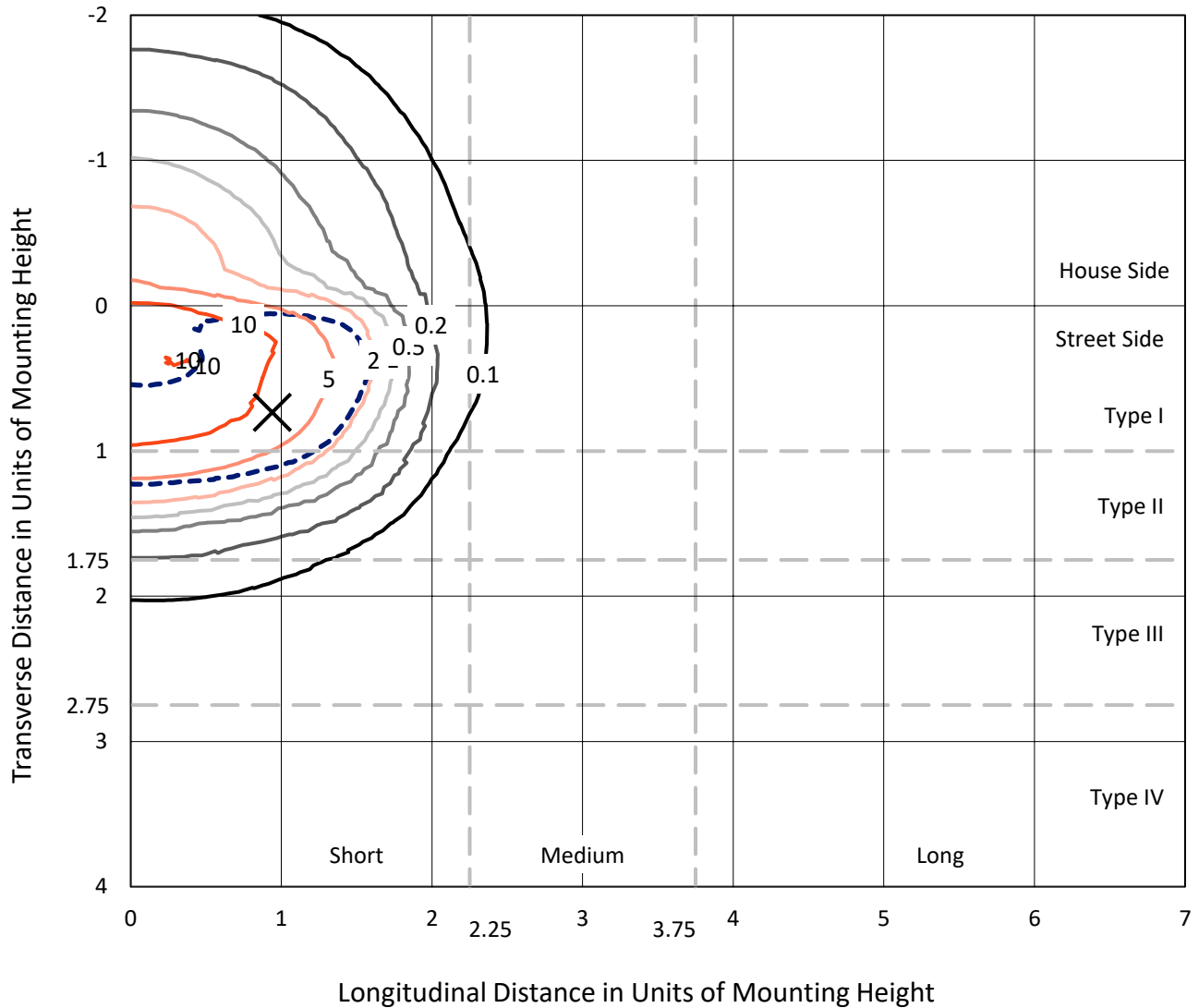
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

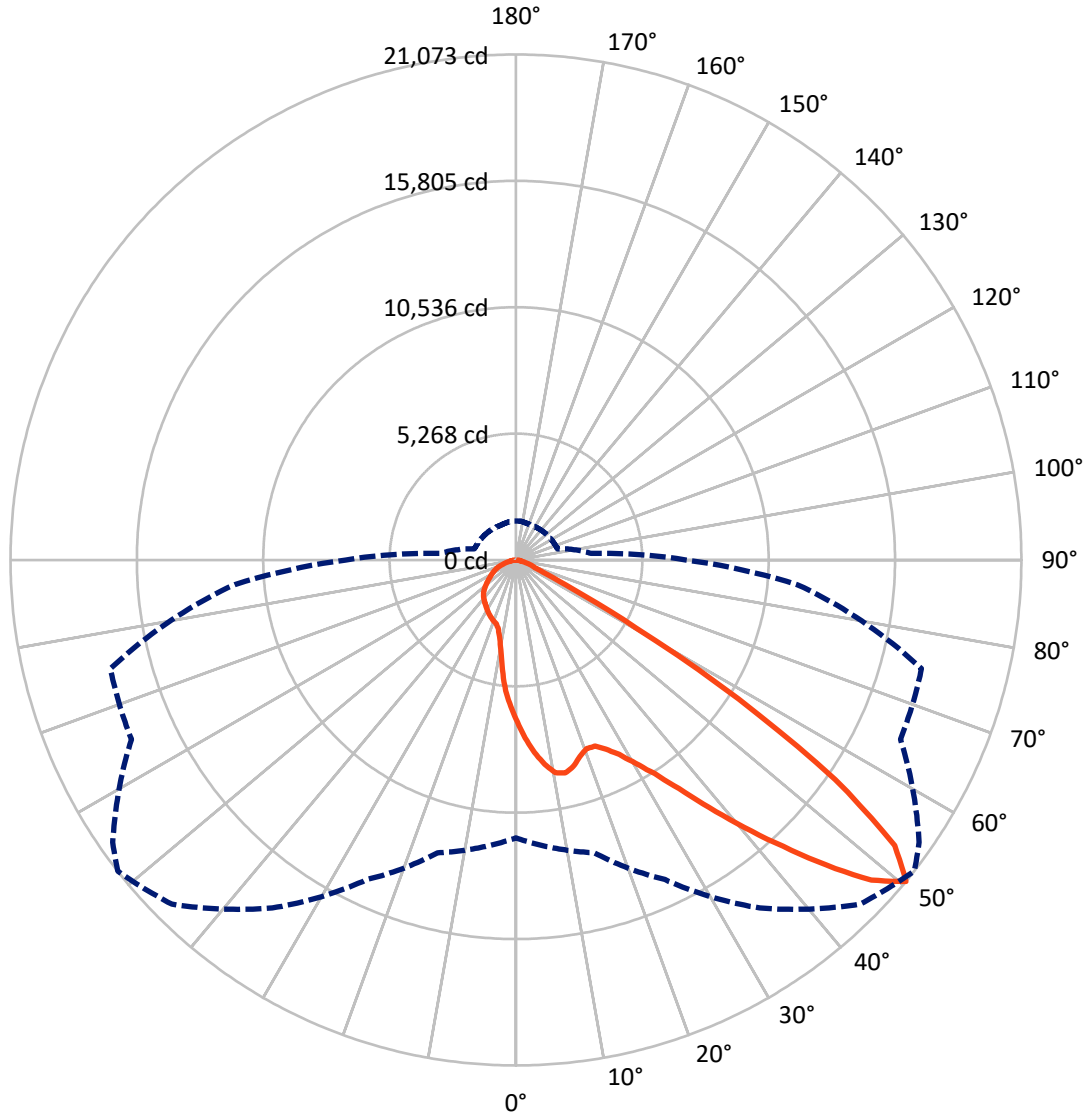
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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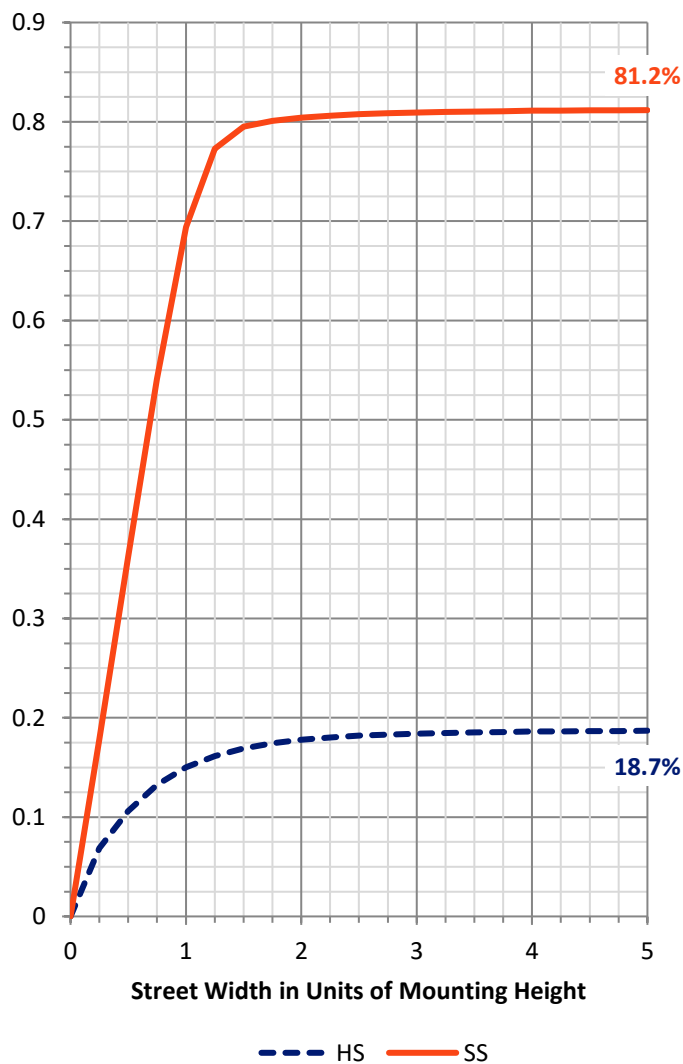
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4502.6	0.0	4502.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	19450.4	0.0	19450.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	23953.0	0.0	23953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.3	2.6
10°-20°	1668.0	7.0
20°-30°	2809.7	11.7
30°-40°	4714.8	19.7
40°-50°	7212.6	30.1
50°-60°	5258.5	22.0
60°-70°	1170.3	4.9
70°-80°	422.1	1.8
80°-90°	74.7	0.3
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°	23953.0	100.0
0°-180°	23953.0	100.0

Coefficient of Utilization



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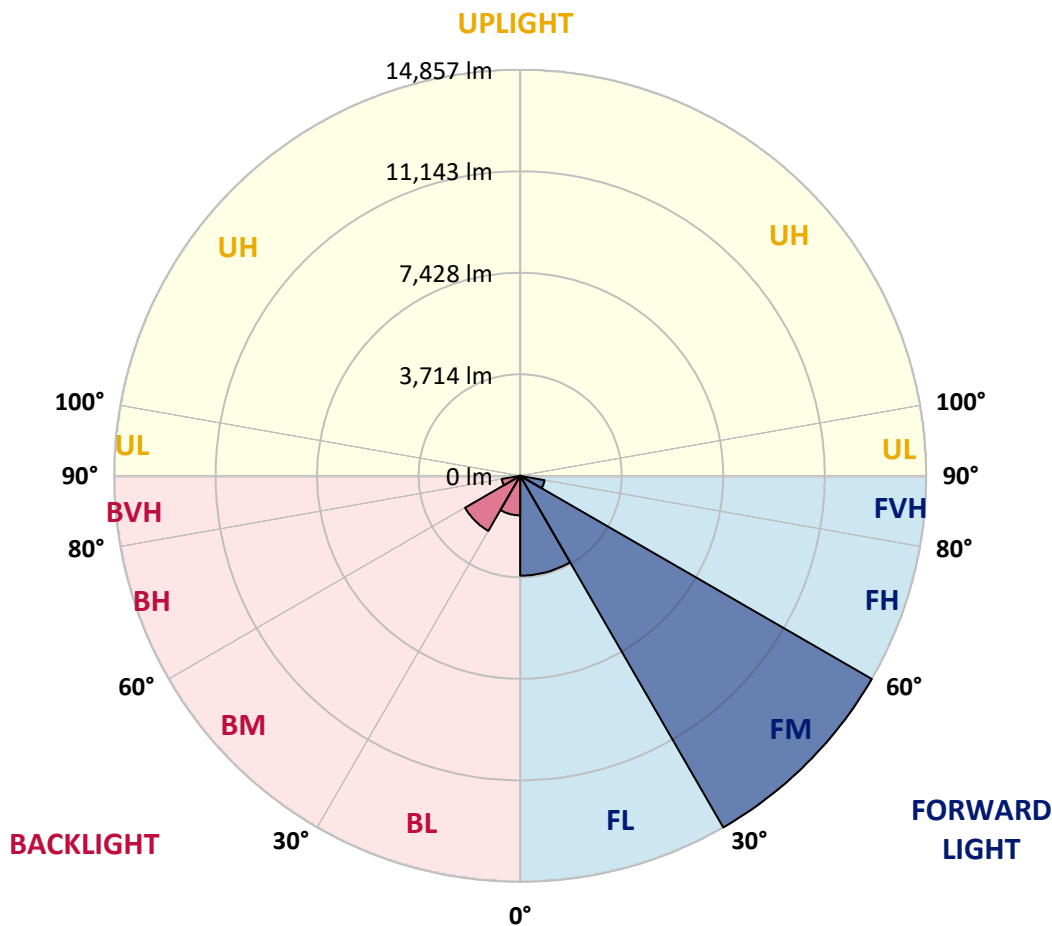
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3653.6	15.3			
FM (30°-60°)	14856.9	62.0			
FH (60°-80°)	906.4	3.8			G1/1800
FVH (80°-90°)	33.5	0.1			G1/100
BL (0°-30°)	1446.3	6.0	B3/2500		
BM (30°-60°)	2329.1	9.7	B2/2500		
BH (60°-80°)	686.0	2.9	B2/1000		G2/1000
BVH (80°-90°)	41.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6752.0	6752.0	6752.0	6752.0	6752.0	6752.0	6752.0	6752.0	6752.0	6752.0	6752.0
2.5°	7949.9	7796.9	7814.3	7704.6	7586.2	7551.6	7430.3	7314.9	7228.3	7043.5	6873.2
5°	8688.9	8642.7	8573.5	8486.9	8397.4	8178.0	8053.8	7909.5	7592.0	7306.2	7023.3
7.5°	8795.7	8787.1	8824.6	8824.6	8856.3	8772.6	8596.5	8495.5	8157.8	7693.0	7167.6
10°	8045.2	8071.2	8253.0	8489.7	8818.8	9046.9	9018.0	8992.0	8622.5	7987.5	7338.0
12.5°	7447.6	7389.9	7496.7	7698.8	8192.4	8743.8	9116.1	9119.0	9023.8	8458.0	7462.1
15°	7109.9	7150.3	7179.2	7274.4	7646.8	8284.8	8940.1	9133.5	9552.0	8790.0	7658.4
17.5°	7326.4	7190.7	7185.0	7208.0	7398.6	7877.8	8613.9	8945.8	9840.7	9217.2	7900.9
20°	7609.3	7606.4	7525.6	7496.7	7493.8	7921.1	8400.3	8850.6	9993.7	9771.4	8146.2
22.5°	8105.8	8105.8	7973.0	7909.5	7773.8	8123.1	8429.1	8735.1	10247.7	10152.5	8264.6
25°	8937.2	8801.5	8573.5	8417.6	8339.6	8463.8	8735.1	9009.3	10470.0	10556.6	8509.9
27.5°	9705.0	9491.4	9378.8	9110.4	9006.5	8934.3	9182.5	9459.7	10729.8	11185.9	8642.7
30°	10576.8	10539.3	10337.2	9990.8	9733.9	9601.1	9829.2	10103.4	11206.1	11829.6	8948.7
32.5°	12135.6	11795.0	11520.8	11096.4	10677.8	10394.9	10620.1	10802.0	11997.1	12502.2	9283.6
35°	13818.6	13708.9	13235.4	12470.5	11829.6	11575.6	11708.4	11844.1	12917.9	13529.9	9846.5
37.5°	15472.6	15322.5	14932.8	14289.1	13509.7	12993.0	13088.2	13247.0	13951.3	14915.5	10533.5
40°	16661.9	16477.2	16280.9	16185.6	15412.0	14704.8	14649.9	14690.3	15348.5	16214.5	11295.6
42.5°	16748.5	16976.6	17037.2	17421.1	17239.3	16659.1	16321.3	16330.0	16682.1	17499.1	12066.3
45°	16566.7	16356.0	16803.4	17851.3	18451.7	18723.0	18154.4	18082.2	17507.7	18243.8	12450.3
47.5°	14658.6	14716.3	15472.6	17129.6	18864.5	20076.9	19944.1	19704.5	17949.4	18217.9	12389.6
50°	11587.1	11936.4	12637.9	14701.9	17709.8	20290.5	21072.8	20518.5	17686.7	17502.0	11771.9
52.5°	7716.1	7860.4	8322.3	10986.7	14240.0	18137.0	19773.8	19900.8	17444.2	16563.8	10989.6
55°	3435.2	3423.6	4073.1	5738.7	8934.3	13801.2	16156.8	16930.4	16511.8	15608.3	10227.5
57.5°	1454.9	1504.0	1769.5	2479.7	4393.5	8328.1	10946.3	11624.7	12698.5	12816.9	7846.0
60°	984.4	990.1	1062.3	1241.3	1838.8	3911.5	5741.6	6555.7	7323.5	7271.6	4162.6
62.5°	773.6	793.8	848.7	920.9	1091.2	1775.3	2569.1	3022.4	3071.4	2583.6	1579.0
65°	661.1	663.9	718.8	779.4	854.5	1033.4	1238.4	1261.5	1275.9	1229.7	1160.4
67.5°	545.6	551.4	594.7	663.9	733.2	791.0	848.7	877.6	943.9	1073.8	1056.5
70°	433.0	441.7	479.2	536.9	600.4	635.1	707.2	733.2	793.8	894.9	935.3
72.5°	329.1	332.0	363.7	404.1	461.9	496.5	557.1	586.0	626.4	713.0	750.5
75°	236.7	245.4	268.5	288.7	297.3	320.4	378.2	409.9	467.6	505.2	508.1
77.5°	124.1	129.9	135.7	135.7	164.5	207.8	245.4	262.7	303.1	332.0	317.5
80°	49.1	52.0	66.4	89.5	115.5	150.1	176.1	184.7	219.4	236.7	245.4
82.5°	28.9	31.8	43.3	63.5	83.7	106.8	127.0	135.7	158.8	179.0	184.7
85°	14.4	17.3	26.0	40.4	54.8	66.4	63.5	60.6	60.6	57.7	60.6
87.5°	5.8	5.8	8.7	8.7	8.7	11.5	14.4	14.4	14.4	17.3	17.3
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°	6752.0	6752.0	6752.0	6752.0	6752.0	6752.0	6752.0	6752.0	6752.0	6752.0	6752.0
2.5°	6760.6	6645.1	6538.3	6342.0	6128.4	6067.8	5819.6	5730.1	5666.6	5591.5	5568.4
5°	6795.3	6642.3	6298.7	5903.3	5588.6	5184.5	4918.9	4633.1	4425.3	4373.3	4358.9
7.5°	6867.4	6604.7	6013.0	5415.4	4771.7	4223.2	3804.6	3579.5	3380.3	3368.8	3348.6
10°	6948.2	6492.2	5701.2	4763.0	3940.3	3432.3	3181.1	3083.0	3033.9	3022.4	3016.6
12.5°	7014.6	6469.1	5351.9	4128.0	3351.4	3045.5	2970.4	2961.7	2981.9	2987.7	2999.3
15°	7043.5	6376.7	4930.5	3559.3	2984.8	2872.3	2904.0	2938.6	2953.1	2990.6	2961.7
17.5°	7098.4	6258.3	4410.9	3109.0	2779.9	2800.1	2854.9	2895.3	2918.4	2944.4	2906.9
20°	7127.2	6151.5	3923.0	2840.5	2707.7	2745.2	2820.3	2852.0	2880.9	2892.5	2849.2
22.5°	7101.2	5932.1	3492.9	2624.0	2638.4	2687.5	2753.9	2788.5	2771.2	2725.0	2699.0
25°	7032.0	5623.3	3045.5	2485.4	2540.3	2626.9	2678.8	2652.9	2621.1	2595.1	2586.5
27.5°	7029.1	5245.1	2722.1	2358.4	2456.6	2574.9	2557.6	2534.5	2548.9	2528.7	2505.6
30°	7043.5	4878.5	2456.6	2286.3	2395.9	2453.7	2473.9	2450.8	2468.1	2430.6	2442.1
32.5°	6968.5	4520.5	2283.4	2202.5	2323.8	2320.9	2387.3	2404.6	2364.2	2286.3	2297.8
35°	7000.2	4231.9	2136.1	2165.0	2243.0	2243.0	2294.9	2274.7	2167.9	2121.7	2133.3
37.5°	7219.6	3949.0	2064.0	2113.1	2165.0	2188.1	2170.8	2084.2	2058.2	2058.2	2064.0
40°	7427.4	3706.5	2020.7	2101.5	2092.8	2107.3	1980.3	1988.9	1988.9	1991.8	1977.4
42.5°	7612.2	3542.0	1986.0	2032.2	2046.7	1971.6	1893.7	1885.0	1905.2	1902.3	1890.8
45°	7678.6	3406.3	1937.0	1954.3	1965.8	1841.7	1804.2	1786.9	1810.0	1818.6	1830.2
47.5°	7424.6	3293.7	1882.1	1847.5	1824.4	1743.6	1694.5	1662.7	1691.6	1740.7	1752.2
50°	7098.4	3146.5	1795.5	1729.1	1680.1	1645.4	1610.8	1579.0	1599.2	1633.9	1625.2
52.5°	6616.3	2915.6	1685.8	1616.5	1532.8	1541.5	1509.7	1492.4	1504.0	1504.0	1495.3
55°	5929.2	2395.9	1501.1	1452.0	1382.7	1405.8	1411.6	1388.5	1365.4	1385.6	1368.3
57.5°	4047.1	1691.6	1339.4	1339.4	1270.1	1301.9	1299.0	1244.2	1189.3	1195.1	1183.5
60°	2341.1	1348.1	1235.5	1224.0	1151.8	1177.8	1183.5	1146.0	1062.3	1068.1	1056.5
62.5°	1330.8	1151.8	1079.6	1062.3	1047.9	1071.0	1071.0	1021.9	949.7	955.5	943.9
65°	1131.6	1068.1	964.2	961.3	955.5	961.3	938.2	886.2	822.7	796.7	799.6
67.5°	1027.7	987.2	886.2	860.2	842.9	840.0	796.7	747.7	718.8	695.7	692.8
70°	900.6	868.9	793.8	759.2	741.9	701.5	658.2	626.4	586.0	574.5	586.0
72.5°	713.0	710.1	681.3	643.7	606.2	574.5	536.9	493.6	456.1	447.4	427.2
75°	493.6	499.4	505.2	499.4	467.6	427.2	383.9	349.3	303.1	277.1	271.3
77.5°	323.3	332.0	340.6	329.1	308.9	271.3	242.5	199.2	164.5	144.3	141.4
80°	236.7	248.3	254.0	245.4	222.3	193.4	161.7	127.0	101.0	83.7	83.7
82.5°	181.9	193.4	199.2	184.7	161.7	138.6	115.5	89.5	69.3	54.8	52.0
85°	63.5	60.6	72.2	75.1	89.5	83.7	69.3	52.0	40.4	28.9	26.0
87.5°	17.3	17.3	20.2	20.2	17.3	14.4	14.4	14.4	11.5	8.7	8.7
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)