

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: P650976

Luminaire Tested: **GALN-SA6C-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23188.1 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

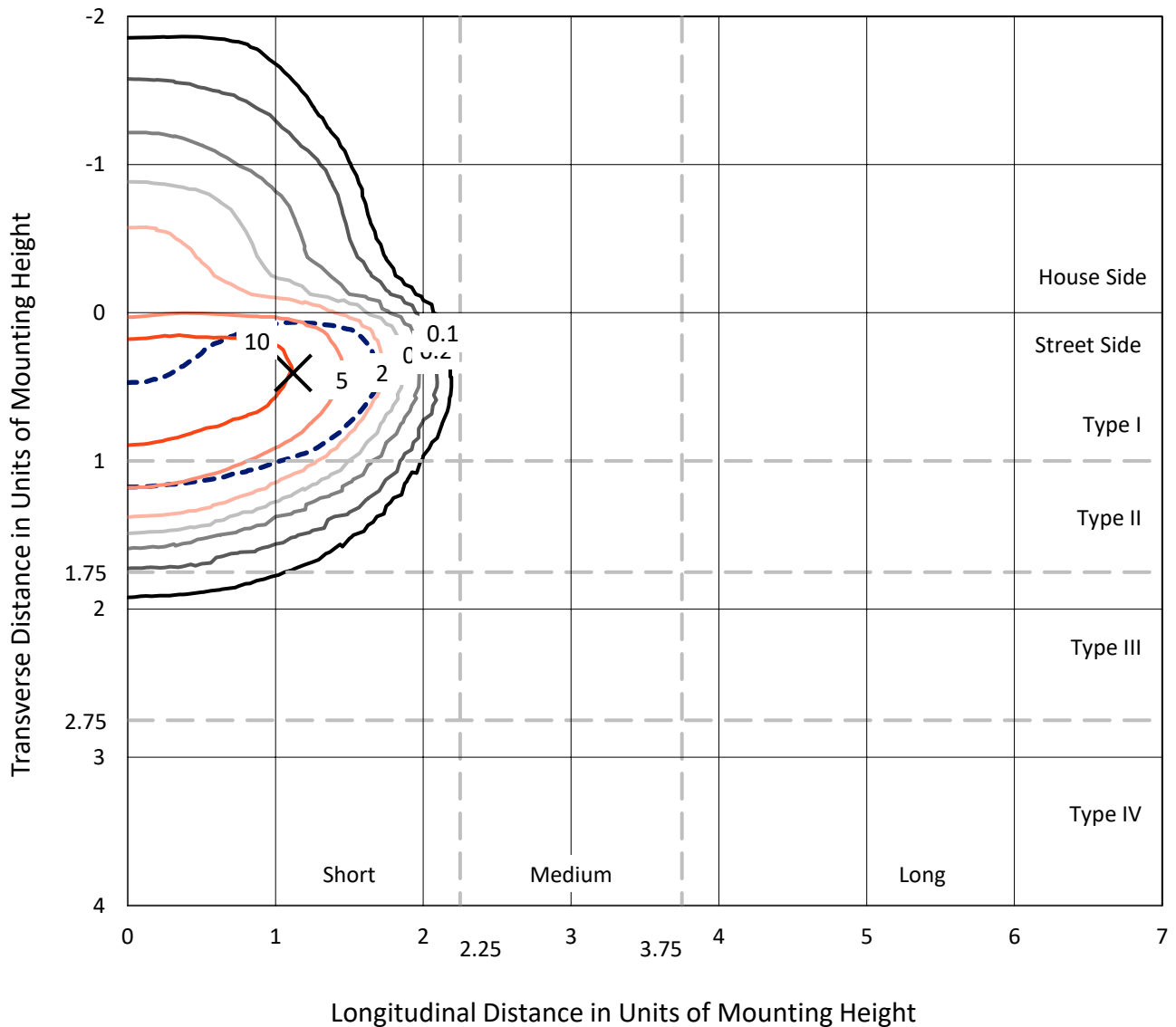
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650976
 CATALOG NUMBER: GALN-SA6C-840-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

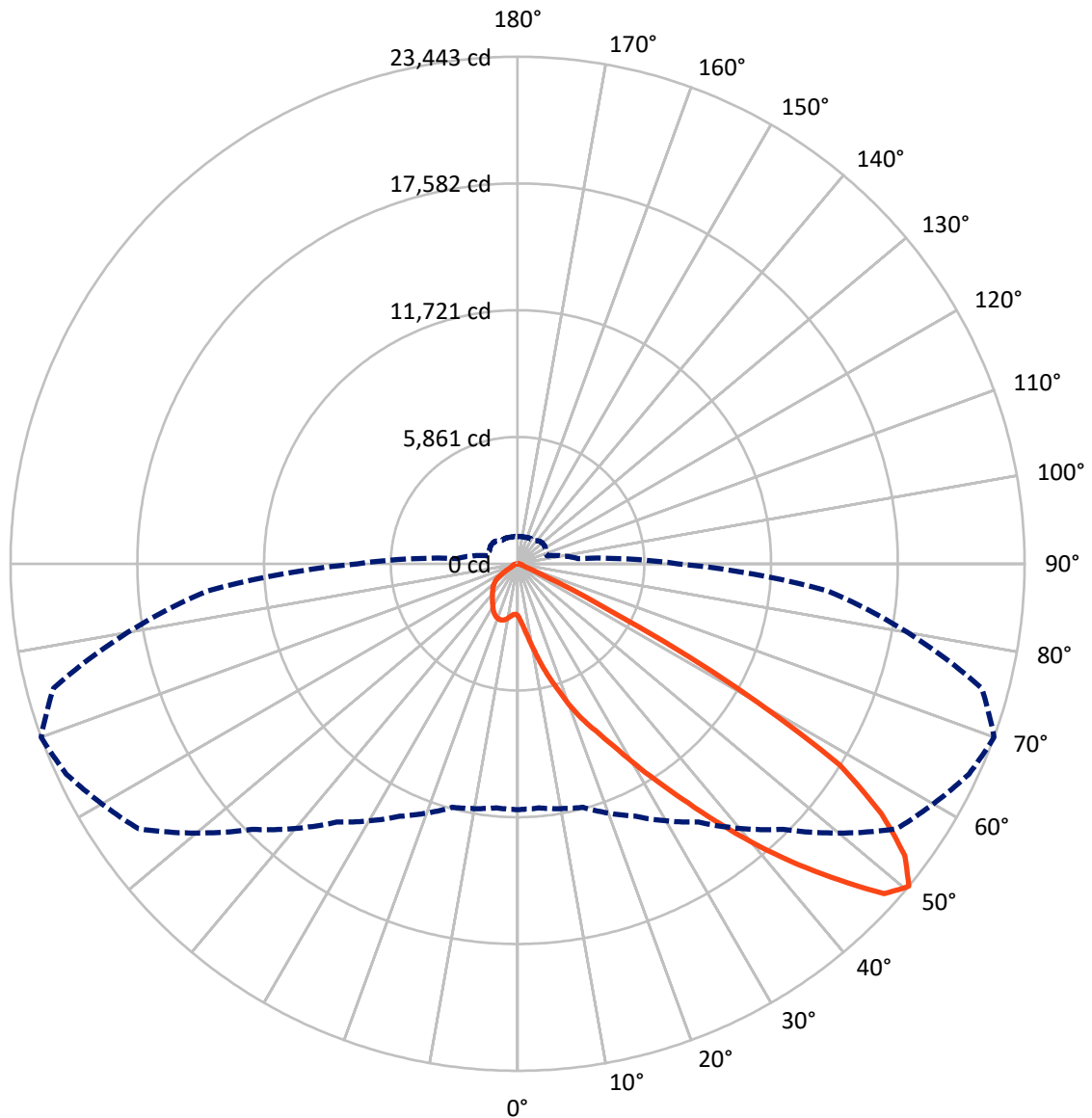
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P650976
CATALOG NUMBER: GALN-SA6C-840-U-T2R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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 CATALOG NUMBER: GALN-SA6C-840-U-T2R-GRSBK

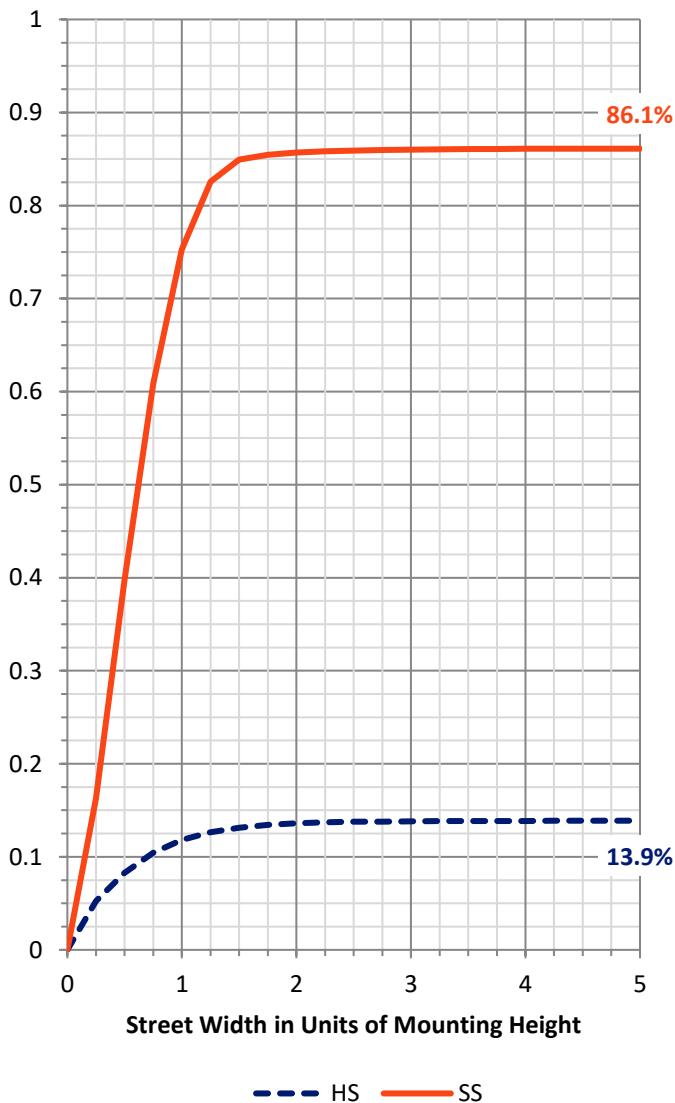
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3238.4	0.0	3238.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	19949.7	0.0	19949.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	23188.1	0.0	23188.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.3	1.3
10°-20°	1351.0	5.8
20°-30°	2834.2	12.2
30°-40°	4885.2	21.1
40°-50°	7139.6	30.8
50°-60°	5560.6	24.0
60°-70°	942.1	4.1
70°-80°	129.4	0.6
80°-90°	33.5	0.1
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°	23188.1	100.0
0°-180°	23188.1	100.0



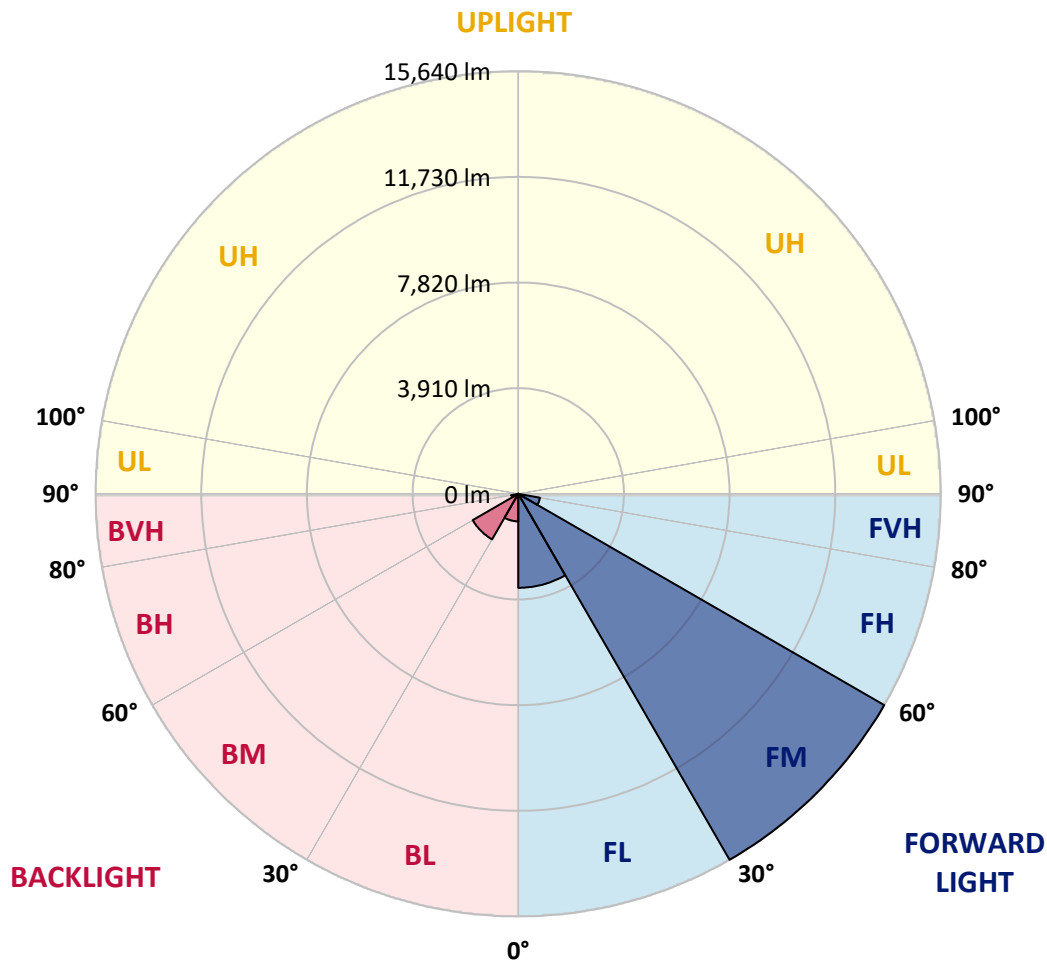
REPORT NUMBER: P650976
 CATALOG NUMBER: GALN-SA6C-840-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3478.5	15.0			
FM (30°-60°)	15639.9	67.4			
FH (60°-80°)	815.8	3.5			G1/1800
FVH (80°-90°)	15.5	0.1			G1/100
BL (0°-30°)	1019.0	4.4	B3/2500		
BM (30°-60°)	1945.5	8.4	B2/2500		
BH (60°-80°)	255.8	1.1	B1/500		G1/500
BVH (80°-90°)	18.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





REPORT NUMBER: P650976

CATALOG NUMBER: GALN-SA6C-840-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2401.8	2401.8	2401.8	2401.8	2401.8	2401.8	2401.8	2401.8	2401.8	2401.8	2401.8
2.5°	3145.3	3122.4	3072.8	2981.3	2943.2	2851.7	2798.3	2695.4	2630.6	2558.2	2478.1
5°	4430.1	4311.8	4239.4	4136.5	3835.3	3648.5	3339.7	3076.6	2954.6	2821.2	2638.2
7.5°	5756.7	5680.5	5581.4	5360.3	5154.4	4765.5	4235.6	3656.1	3408.3	3179.6	2817.4
10°	6854.7	6641.2	6629.8	6465.9	6240.9	5775.8	5139.2	4418.6	3976.3	3640.9	3072.8
12.5°	7621.1	7426.6	7514.3	7495.2	7285.5	6858.5	6122.7	5169.6	4708.3	4186.1	3335.9
15°	8318.7	8238.6	8211.9	8189.1	8105.2	7788.8	7129.2	6084.6	5417.5	4788.4	3633.2
17.5°	9001.1	8795.3	8894.4	8913.4	8905.9	8619.9	8002.3	6953.9	6168.5	5425.0	3945.9
20°	9607.3	9626.3	9493.0	9466.2	9443.3	9431.9	8829.6	7815.5	7091.1	6092.3	4353.8
22.5°	10385.0	10251.6	10369.8	10293.5	10144.8	10053.3	9592.0	8577.9	7891.7	6896.7	4769.3
25°	11303.8	11410.6	11132.2	11101.8	10937.9	10621.4	10205.9	9431.9	8661.8	7643.9	5219.2
27.5°	12436.1	12249.3	12176.8	12009.1	11711.8	11578.3	11090.4	10312.6	9592.0	8429.3	5653.8
30°	13408.3	13358.7	12996.6	12798.3	12539.1	12535.3	11852.8	11505.9	10804.4	9660.7	6252.3
32.5°	14201.3	13984.0	13850.5	13713.3	13503.6	13560.8	12985.1	12802.1	12096.8	10804.4	6957.7
35°	14731.2	14574.9	14494.8	14285.1	14224.2	14479.6	14239.4	14163.1	13583.7	12413.2	7785.0
37.5°	14898.9	14948.5	14933.2	14670.2	14799.8	15489.9	15798.7	15600.5	15295.4	14109.8	8680.9
40°	15047.6	15081.9	15005.7	15314.5	15684.3	16469.6	17586.7	17258.8	17144.5	15829.1	9927.6
42.5°	15131.5	15104.8	15104.8	15638.6	16199.0	17777.3	19313.7	19096.4	19008.7	17659.1	11368.6
45°	14769.3	14510.1	14788.4	15512.7	16641.2	18421.6	20693.8	20995.0	20869.2	19836.0	13053.7
47.5°	13415.9	13576.0	13732.4	14700.7	16103.6	18223.4	21540.2	22565.7	22798.2	21666.0	14159.3
50°	11368.6	11334.3	11658.4	12878.4	14582.5	17369.4	21376.3	23019.4	23442.5	22215.0	14391.9
52.5°	8269.1	8520.8	8871.5	10083.8	12104.4	15158.2	19260.3	21849.0	22413.2	21540.2	14239.4
55°	4815.1	4536.8	5326.0	6351.5	8257.7	11433.5	16282.9	19367.1	20411.7	20312.6	13469.3
57.5°	1929.1	1868.1	2138.7	2882.2	4308.0	7087.3	11841.4	15913.1	17586.7	18604.6	11837.6
60°	846.4	827.3	972.2	1174.2	1761.3	3267.3	6477.3	9897.1	11643.1	13000.3	8147.1
62.5°	610.0	602.3	674.8	747.2	930.2	1422.0	2722.1	3987.8	4971.4	6004.6	3648.5
65°	491.8	510.8	560.4	598.5	686.3	789.2	960.8	1109.4	1361.1	1410.6	804.4
67.5°	400.3	415.5	461.3	503.3	518.5	427.0	442.3	388.9	388.9	346.9	278.3
70°	293.6	297.4	350.8	400.3	320.3	171.6	301.2	301.2	270.7	259.3	236.4
72.5°	217.3	221.1	263.1	247.8	125.8	106.7	221.1	244.0	221.1	209.7	190.7
75°	160.1	163.9	137.3	57.2	53.4	68.6	129.6	167.8	160.1	156.3	144.9
77.5°	30.5	22.9	19.1	26.7	38.1	57.2	83.8	102.9	106.7	114.4	106.7
80°	3.8	3.8	11.4	22.9	42.0	61.0	87.7	99.2	102.9	106.7	99.2
82.5°	0.0	3.8	11.4	22.9	42.0	57.2	76.3	87.7	95.3	99.2	95.3
85°	0.0	3.8	7.7	19.1	34.3	42.0	38.1	26.7	22.9	26.7	19.1
87.5°	0.0	0.0	3.8	3.8	7.7	7.7	7.7	7.7	7.7	7.7	7.7
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: P650976

CATALOG NUMBER: GALN-SA6C-840-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2401.8	2401.8	2401.8	2401.8	2401.8	2401.8	2401.8	2401.8	2401.8	2401.8	2401.8
2.5°	2432.3	2417.0	2363.7	2306.5	2257.0	2279.9	2257.0	2237.9	2245.6	2237.9	2230.2
5°	2565.7	2497.1	2382.8	2333.2	2291.3	2287.4	2276.0	2272.2	2276.0	2276.0	2241.7
7.5°	2691.5	2581.0	2459.0	2405.6	2356.1	2359.9	2333.2	2333.2	2329.4	2310.3	2302.7
10°	2882.2	2733.5	2577.2	2481.9	2420.9	2409.5	2382.8	2356.1	2356.1	2356.1	2318.0
12.5°	3091.9	2905.1	2691.5	2581.0	2508.5	2451.3	2409.5	2401.8	2359.9	2352.3	2333.2
15°	3274.9	3038.5	2767.8	2615.3	2523.8	2447.6	2382.8	2340.8	2321.7	2310.3	2295.1
17.5°	3454.1	3152.9	2809.8	2615.3	2516.2	2428.5	2359.9	2321.7	2276.0	2283.7	2253.1
20°	3694.3	3274.9	2821.2	2565.7	2443.8	2359.9	2268.4	2249.3	2222.7	2199.8	2207.4
22.5°	3926.8	3362.6	2786.9	2504.8	2329.4	2230.2	2184.5	2161.6	2150.2	2131.2	2104.4
25°	4136.5	3457.9	2733.5	2394.2	2207.4	2135.0	2093.0	2089.2	2062.6	2062.6	2012.9
27.5°	4350.0	3492.2	2642.0	2264.6	2100.6	2058.7	2039.7	2032.0	2020.6	1993.9	1959.6
30°	4594.0	3503.6	2508.5	2131.2	2005.4	1959.6	1986.3	2005.4	1955.7	1906.2	1921.4
32.5°	4796.1	3476.9	2348.5	2005.4	1936.7	1913.9	1967.2	1986.3	1929.1	1875.7	1849.0
35°	5040.0	3412.1	2192.2	1906.2	1868.1	1913.9	1959.6	1959.6	1845.2	1780.4	1765.2
37.5°	5409.8	3339.7	2047.2	1822.4	1795.6	1891.0	1952.0	1910.0	1730.9	1650.8	1631.7
40°	5806.3	3293.9	1906.2	1738.4	1757.5	1852.8	1887.1	1757.5	1574.5	1525.0	1509.7
42.5°	6382.0	3202.4	1780.4	1666.0	1723.2	1799.5	1799.5	1566.9	1498.2	1471.6	1467.8
45°	7098.7	3137.6	1669.8	1605.0	1673.7	1692.7	1631.7	1467.8	1418.3	1410.6	1414.4
47.5°	7449.5	3011.8	1555.4	1532.6	1582.2	1586.0	1425.8	1387.7	1345.8	1334.3	1326.8
50°	7396.1	2786.9	1406.8	1437.3	1505.9	1467.8	1300.0	1307.7	1269.6	1265.7	1246.7
52.5°	7022.5	2432.3	1258.1	1330.5	1406.8	1296.2	1197.1	1189.5	1189.5	1139.9	1120.9
55°	6225.7	1959.6	1078.9	1170.4	1261.9	1090.4	1063.7	1056.0	1037.0	991.2	979.8
57.5°	4929.4	1437.3	812.1	911.1	1071.3	926.4	922.6	888.3	838.7	804.4	804.4
60°	2931.7	827.3	510.8	556.6	709.1	751.0	834.9	819.6	735.8	682.4	667.2
62.5°	1338.2	427.0	324.0	331.7	381.2	487.9	655.7	758.7	640.5	549.0	541.4
65°	449.9	316.5	266.8	255.4	263.1	293.6	392.7	537.6	510.8	423.2	408.0
67.5°	274.5	282.2	251.6	232.5	232.5	228.8	225.0	244.0	301.2	293.6	297.4
70°	236.4	259.3	232.5	209.7	202.1	190.7	160.1	133.5	114.4	133.5	141.0
72.5°	190.7	205.9	198.2	179.2	160.1	144.9	114.4	87.7	64.8	57.2	57.2
75°	141.0	152.5	160.1	137.3	122.0	102.9	83.8	57.2	34.3	22.9	22.9
77.5°	102.9	114.4	118.2	106.7	91.5	72.4	53.4	38.1	19.1	7.7	7.7
80°	87.7	102.9	114.4	106.7	95.3	68.6	49.5	26.7	15.2	3.8	3.8
82.5°	83.8	102.9	114.4	102.9	91.5	64.8	49.5	30.5	11.4	3.8	3.8
85°	19.1	26.7	34.3	42.0	49.5	49.5	38.1	22.9	11.4	3.8	3.8
87.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	3.8	3.8	0.0
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)