

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: P650738

Luminaire Tested: **GALN-SA2C-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6953.4 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

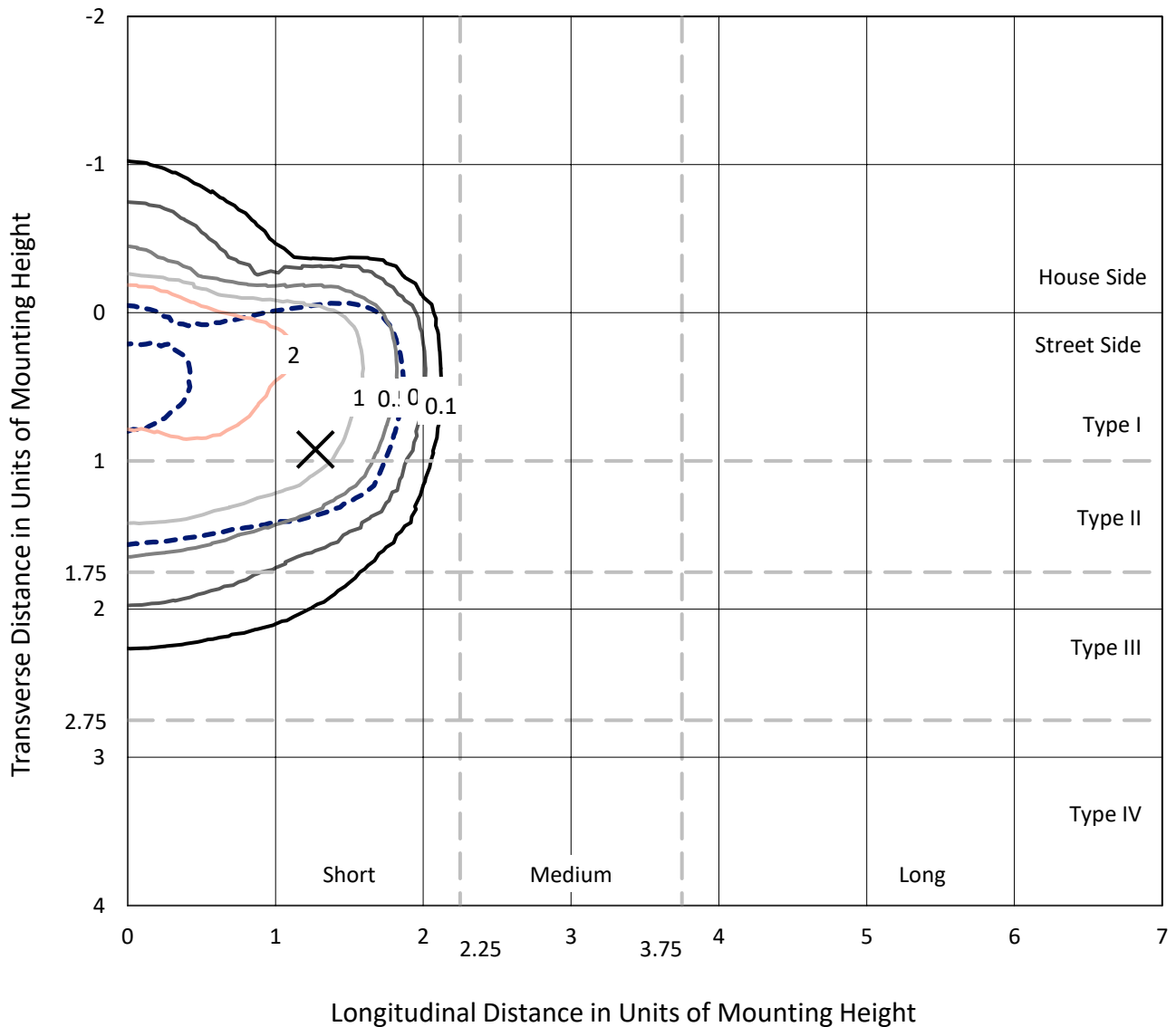
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650738
 CATALOG NUMBER: GALN-SA2C-840-U-SL3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

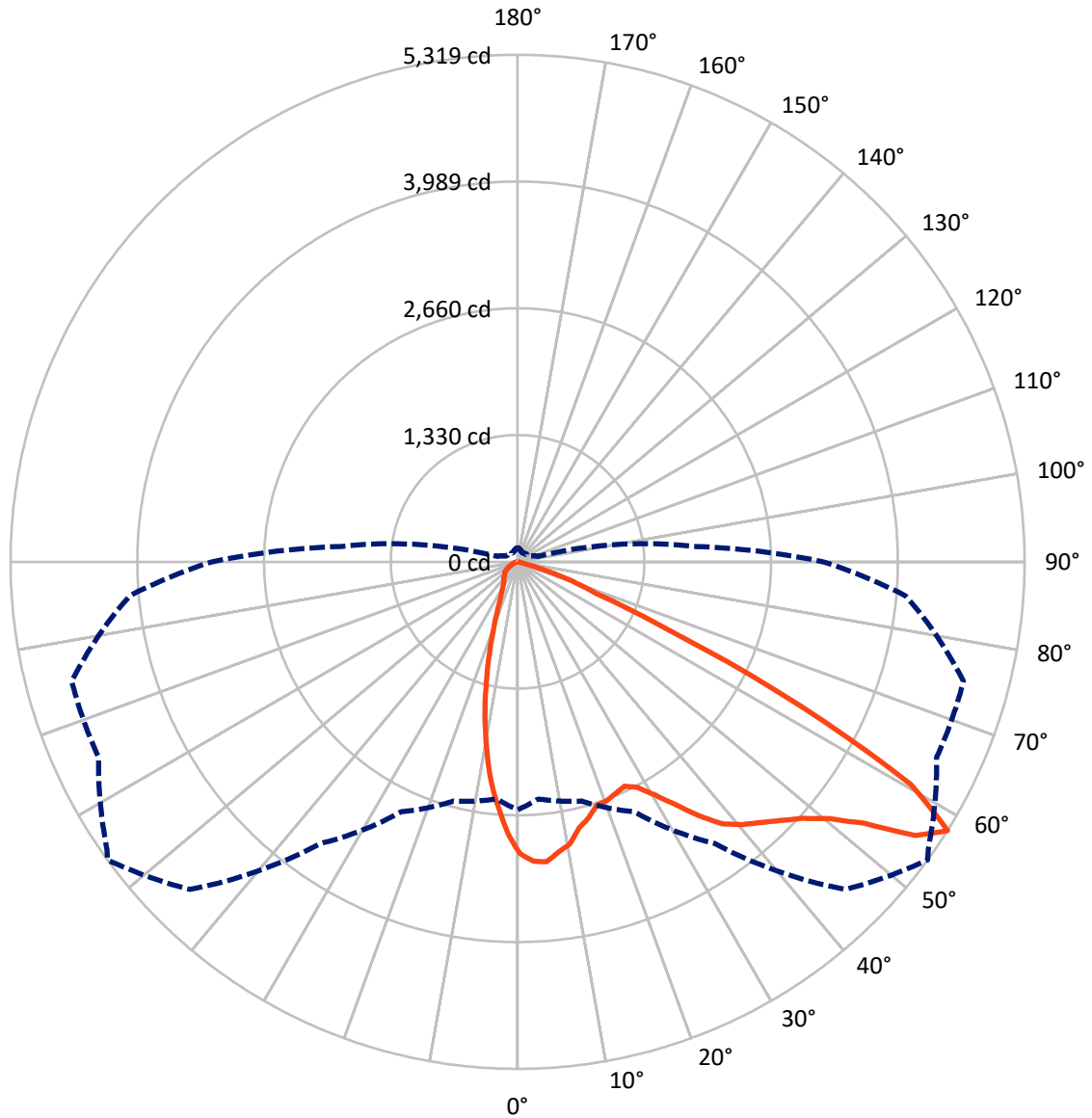
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

REPORT NUMBER: P650738
CATALOG NUMBER: GALN-SA2C-840-U-SL3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P650738
 CATALOG NUMBER: GALN-SA2C-840-U-SL3-GRSBK

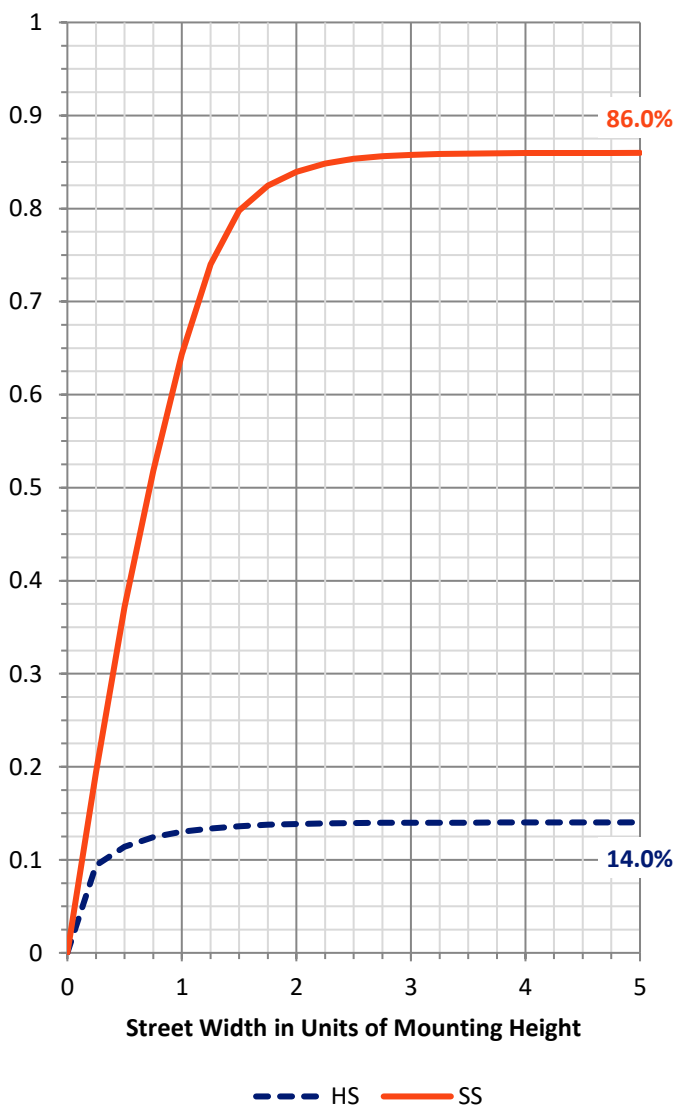
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	982.6	0.0	982.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	5970.7	0.0	5970.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	6953.4	0.0	6953.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.3	3.7
10°-20°	547.2	7.9
20°-30°	725.2	10.4
30°-40°	1053.9	15.2
40°-50°	1562.8	22.5
50°-60°	1954.3	28.1
60°-70°	770.9	11.1
70°-80°	76.8	1.1
80°-90°	6.0	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°	6953.4	100.0
0°-180°	6953.4	100.0

Coefficient of Utilization



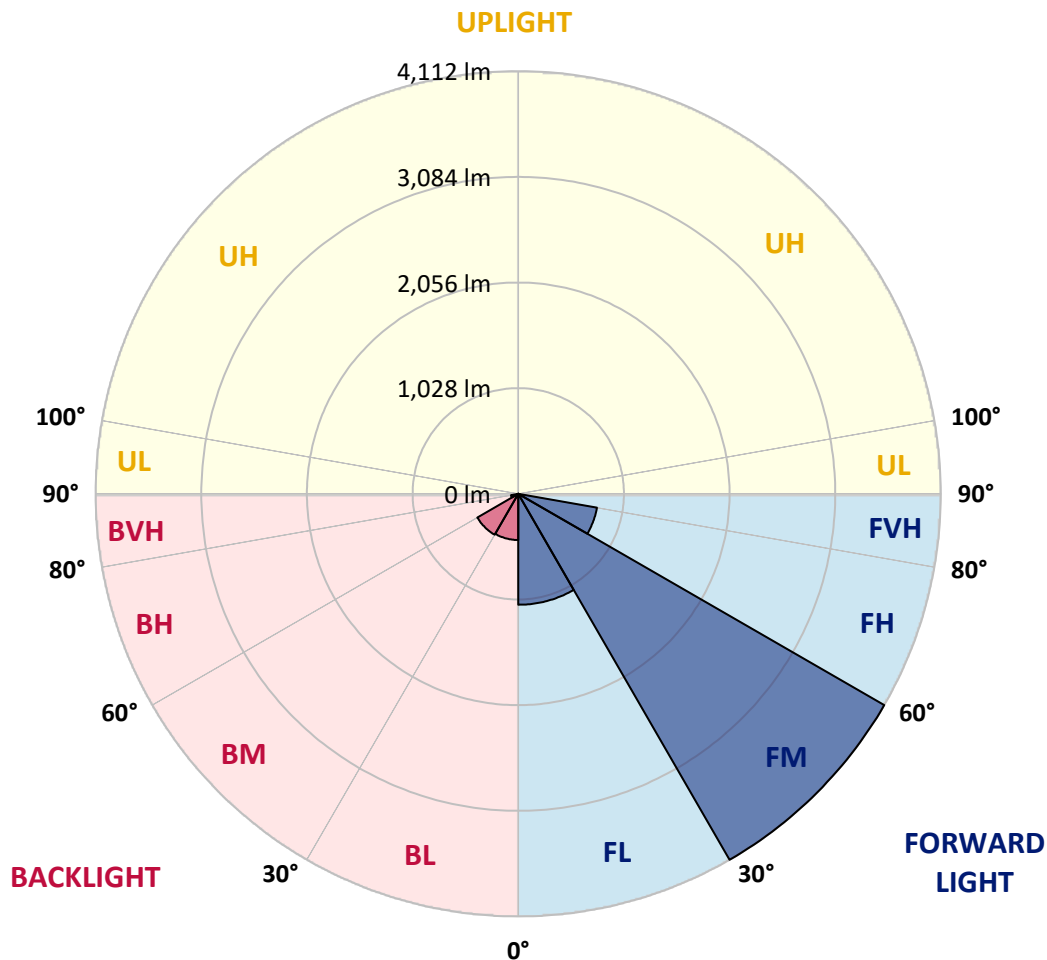
REPORT NUMBER: P650738
 CATALOG NUMBER: GALN-SA2C-840-U-SL3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1079.4	15.5			
FM (30°-60°)	4111.5	59.1			
FH (60°-80°)	777.2	11.2			G1/1800
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	449.4	6.5	B1/500		
BM (30°-60°)	459.5	6.6	B1/1000		
BH (60°-80°)	70.5	1.0	B0/110		G0/110
BVH (80°-90°)	3.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P650738

CATALOG NUMBER: GALN-SA2C-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1
2.5°	3241.5	3207.9	3210.4	3198.8	3183.3	3195.0	3144.5	3156.2	3154.8	3086.3	3041.1
5°	3160.1	3196.2	3158.7	3189.7	3160.1	3192.4	3161.3	3138.0	3100.6	3050.1	2966.1
7.5°	3021.7	2986.8	2997.2	3035.9	3042.4	3114.8	3076.0	3105.7	3090.3	2990.7	2875.5
10°	2743.7	2735.9	2787.7	2839.4	2902.7	2980.3	3010.0	2993.2	2981.6	2944.1	2790.3
12.5°	2530.3	2552.4	2551.0	2636.4	2743.7	2787.7	2865.2	2862.7	2927.3	2857.5	2710.0
15°	2327.4	2339.0	2393.3	2446.3	2565.3	2690.7	2786.4	2799.3	2876.9	2827.8	2648.1
17.5°	2203.3	2186.4	2229.1	2292.5	2414.0	2578.2	2684.2	2715.3	2821.3	2811.0	2576.9
20°	2080.4	2080.4	2115.3	2190.3	2301.5	2486.4	2675.1	2666.1	2821.3	2791.5	2500.6
22.5°	2039.0	2059.7	2068.8	2125.6	2257.5	2416.6	2636.4	2653.2	2843.3	2782.4	2467.0
25°	2095.9	2068.8	2071.4	2116.6	2240.8	2383.0	2607.9	2645.4	2883.4	2827.8	2439.8
27.5°	2104.9	2132.1	2139.8	2170.9	2253.6	2393.3	2679.0	2755.4	2982.9	2933.7	2447.6
30°	2183.8	2211.0	2209.7	2262.7	2319.6	2477.3	2838.1	2853.6	3188.5	3067.0	2495.4
32.5°	2279.5	2308.0	2317.0	2379.1	2424.4	2631.2	3032.1	3072.1	3386.3	3276.4	2620.9
35°	2398.4	2388.1	2429.5	2491.5	2588.5	2856.2	3268.6	3335.9	3599.6	3547.9	2750.2
37.5°	2547.1	2534.3	2574.3	2675.1	2807.1	3122.5	3487.1	3531.1	3754.8	3800.1	2989.3
40°	2651.9	2657.1	2778.6	2914.4	3054.0	3375.9	3625.5	3668.2	3863.4	4035.4	3170.4
42.5°	2826.4	2858.8	3004.9	3170.4	3316.5	3566.0	3738.0	3779.4	3913.8	4224.2	3414.7
45°	3079.9	3065.6	3227.3	3412.2	3573.7	3763.9	3871.2	3856.9	3943.6	4411.6	3568.6
47.5°	3405.7	3408.3	3515.6	3673.3	3841.4	3935.8	4019.9	3969.4	4005.6	4609.4	3774.2
50°	3628.1	3647.5	3734.1	3895.8	3979.8	4124.6	4231.9	4200.9	4189.3	4728.4	3903.5
52.5°	3685.0	3743.2	3789.7	3991.4	4187.9	4416.8	4553.8	4619.8	4412.9	4768.5	4067.7
55°	3255.7	3307.4	3471.6	3748.3	4266.8	4879.7	5068.5	5069.8	4705.1	4946.9	4182.8
57.5°	2602.7	2498.0	2598.9	2892.4	3607.4	4860.3	5319.3	5258.5	4851.2	4842.2	4083.2
60°	1799.8	1774.0	1780.4	1896.8	2496.8	3866.0	4740.0	4818.9	4467.2	4197.0	3232.5
62.5°	1426.2	1404.1	1375.7	1362.8	1550.3	2408.8	3343.6	3454.8	3123.8	2721.7	1916.2
65°	1117.1	1104.2	1108.1	1159.8	1158.5	1366.7	1828.2	1783.0	1427.4	1055.0	602.5
67.5°	753.8	773.2	788.7	945.2	1025.3	951.6	883.1	857.2	464.1	195.3	133.2
70°	424.1	426.7	443.5	590.9	778.3	738.3	609.0	609.0	231.4	71.1	76.3
72.5°	231.4	223.7	208.1	254.7	346.5	351.7	271.6	236.6	68.5	46.5	42.6
75°	112.5	111.2	95.7	78.9	75.0	62.1	47.9	44.0	31.0	29.8	25.8
77.5°	23.3	22.0	11.6	11.6	13.0	14.2	18.1	18.1	22.0	22.0	18.1
80°	0.0	0.0	1.3	5.1	9.1	13.0	15.5	15.5	18.1	18.1	14.2
82.5°	0.0	0.0	1.3	3.9	7.7	11.6	14.2	15.5	18.1	19.4	15.5
85°	0.0	0.0	0.0	2.6	6.5	9.1	7.7	7.7	6.5	5.1	2.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P650738

CATALOG NUMBER: GALN-SA2C-840-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1	3063.1
2.5°	3017.8	3015.2	2955.8	2922.1	2861.3	2808.4	2765.7	2734.7	2734.7	2715.3	2697.2
5°	2932.5	2910.4	2783.8	2702.3	2587.3	2501.9	2443.7	2398.4	2327.4	2346.7	2270.4
7.5°	2826.4	2770.8	2602.7	2478.6	2319.6	2198.0	2073.9	1964.1	1858.0	1810.2	1836.0
10°	2712.6	2615.7	2389.4	2192.9	1995.1	1772.7	1627.8	1452.0	1343.4	1336.9	1308.5
12.5°	2592.4	2482.5	2207.1	1935.6	1675.7	1408.1	1187.0	1022.7	949.1	867.6	883.1
15°	2501.9	2339.0	2004.1	1677.0	1331.8	1061.5	839.1	712.4	642.6	623.2	616.8
17.5°	2403.7	2229.1	1797.2	1401.6	1044.7	764.1	603.8	543.0	515.9	515.9	512.0
20°	2301.5	2104.9	1591.7	1145.6	783.6	570.2	483.6	464.1	462.9	461.6	461.6
22.5°	2234.3	1962.7	1405.5	910.2	590.9	456.4	420.2	412.4	417.6	433.1	433.1
25°	2163.1	1825.6	1199.9	702.1	457.7	391.7	371.0	376.3	389.2	403.4	398.2
27.5°	2090.7	1736.5	1005.9	550.8	375.0	342.6	334.9	346.5	360.7	373.7	369.8
30°	2073.9	1640.8	822.3	417.6	321.9	298.6	303.9	314.2	328.4	333.6	338.8
32.5°	2099.8	1565.8	673.6	342.6	280.6	274.1	274.1	279.3	288.3	300.0	296.1
35°	2173.5	1523.1	532.7	297.4	257.3	250.9	249.5	254.7	259.9	263.7	259.9
37.5°	2286.0	1489.5	435.7	263.7	241.8	231.4	228.8	227.6	232.7	234.1	236.6
40°	2429.5	1507.6	369.8	243.0	226.2	214.6	206.9	206.9	206.9	210.8	212.0
42.5°	2584.6	1532.2	319.3	231.4	212.0	197.8	190.1	187.5	190.1	195.3	193.9
45°	2747.5	1580.0	287.0	213.4	199.1	181.0	170.6	168.1	174.6	184.9	183.6
47.5°	2900.1	1648.5	262.5	201.7	186.2	169.4	156.4	153.9	165.5	179.7	181.0
50°	3052.7	1767.5	253.4	192.7	177.1	157.8	146.1	143.6	156.4	174.6	178.5
52.5°	3228.6	1895.5	246.9	181.0	166.8	148.7	135.7	133.2	147.4	170.6	172.0
55°	3343.6	2004.1	241.8	160.3	147.4	134.5	124.1	122.9	138.3	159.0	164.2
57.5°	3209.2	1852.8	223.7	139.6	125.4	118.9	109.9	109.9	122.9	142.2	146.1
60°	2433.3	1219.3	159.0	112.5	106.1	102.2	98.2	98.2	108.6	122.9	124.1
62.5°	1424.8	656.8	102.2	90.5	90.5	86.6	80.1	80.1	90.5	98.2	99.6
65°	422.8	210.8	82.8	77.5	76.3	69.8	63.3	62.1	69.8	73.7	72.4
67.5°	121.5	97.0	68.5	64.7	63.3	53.0	49.1	47.9	49.1	46.5	45.2
70°	72.4	65.9	53.0	54.3	47.9	38.8	34.9	33.6	31.0	27.2	24.6
72.5°	40.1	40.1	38.8	41.4	33.6	25.8	22.0	18.1	14.2	11.6	10.3
75°	24.6	25.8	27.2	28.4	22.0	16.8	14.2	9.1	5.1	2.6	2.6
77.5°	16.8	18.1	19.4	20.7	18.1	15.5	11.6	6.5	1.3	0.0	0.0
80°	13.0	14.2	16.8	18.1	19.4	20.7	15.5	6.5	1.3	0.0	0.0
82.5°	14.2	15.5	19.4	18.1	18.1	18.1	14.2	6.5	1.3	0.0	0.0
85°	2.6	3.9	6.5	6.5	9.1	11.6	9.1	2.6	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)