

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: P451675

Luminaire Tested: **GALN-SA2C-750-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-750-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11571 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

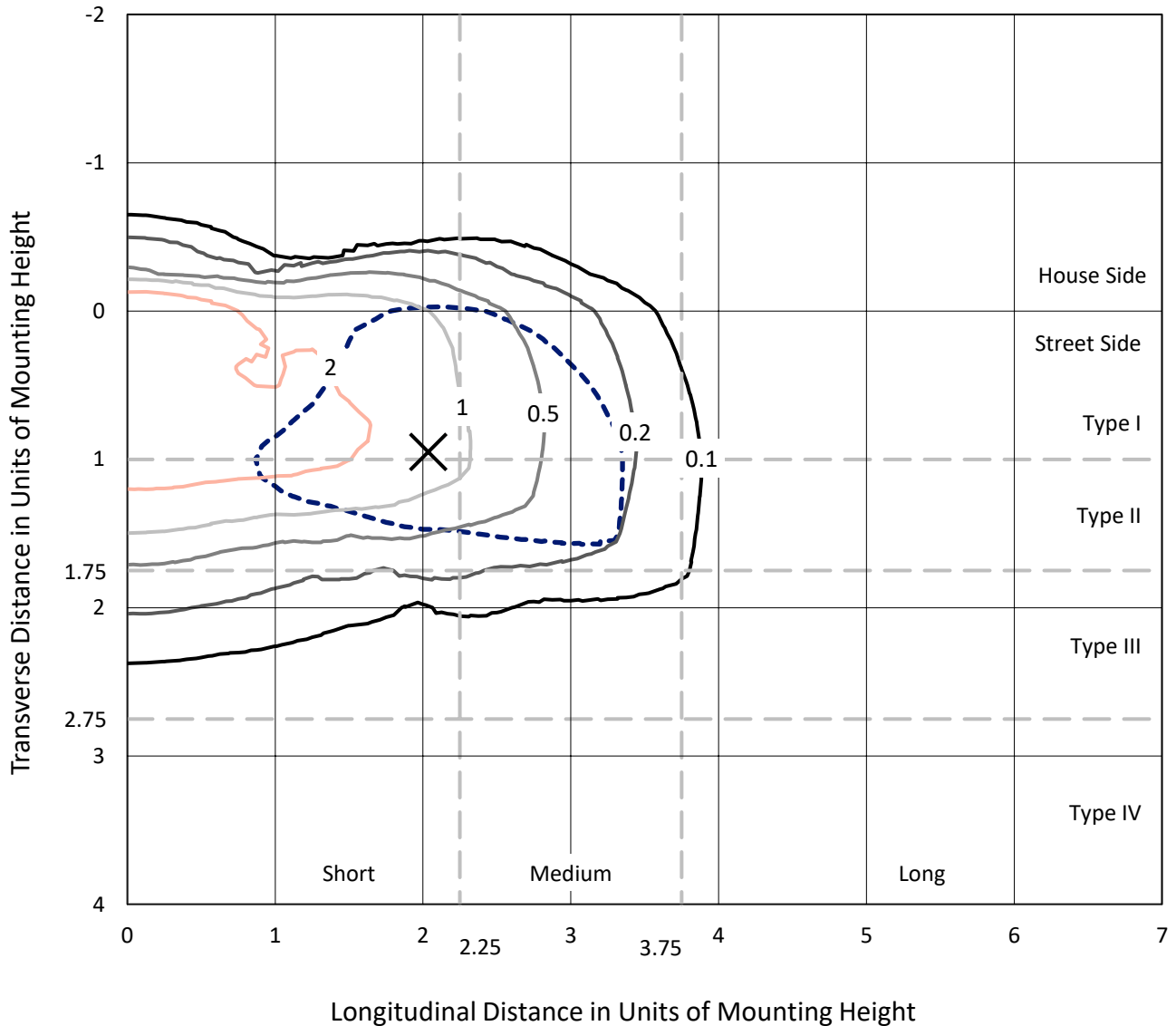
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

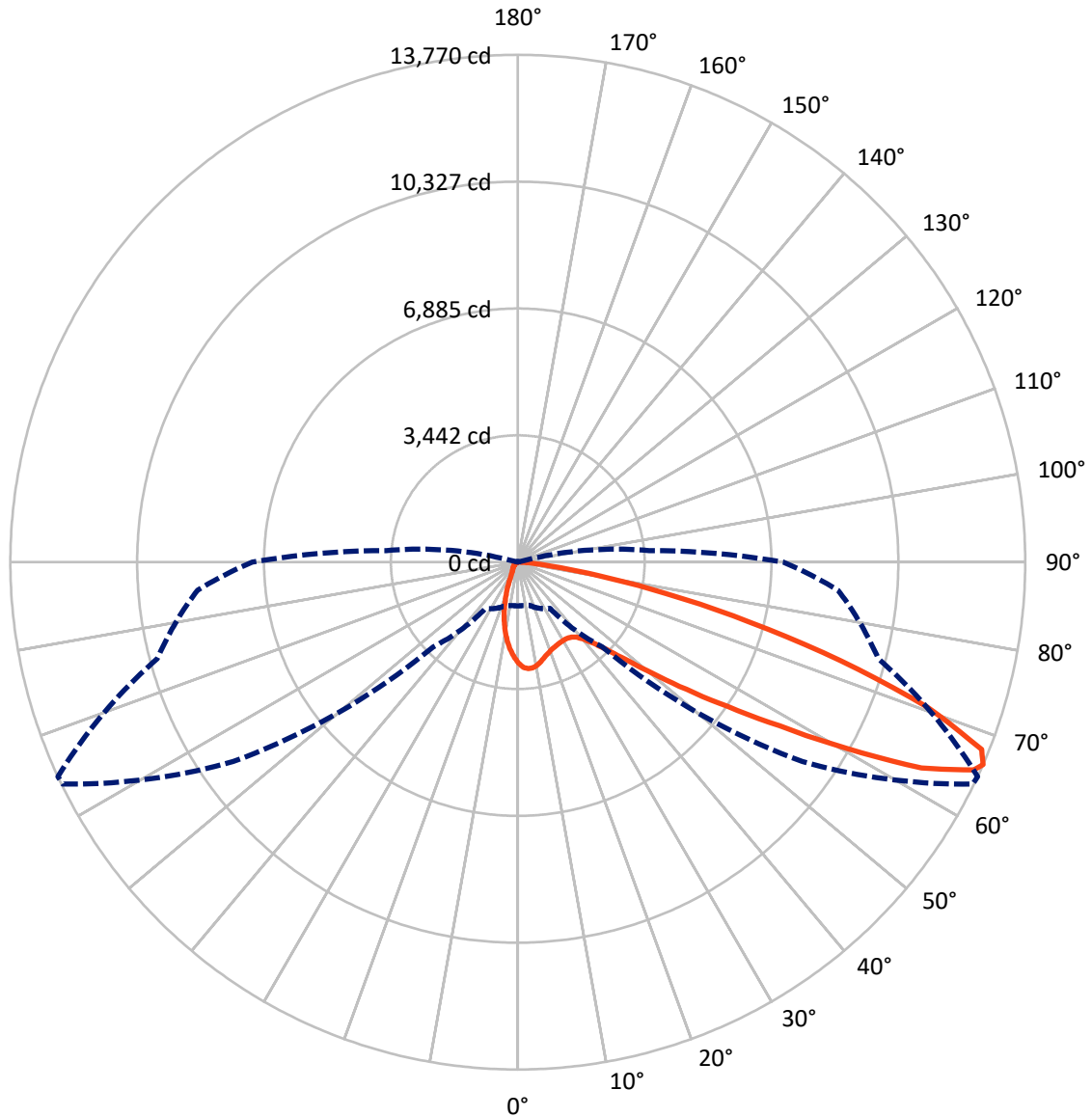
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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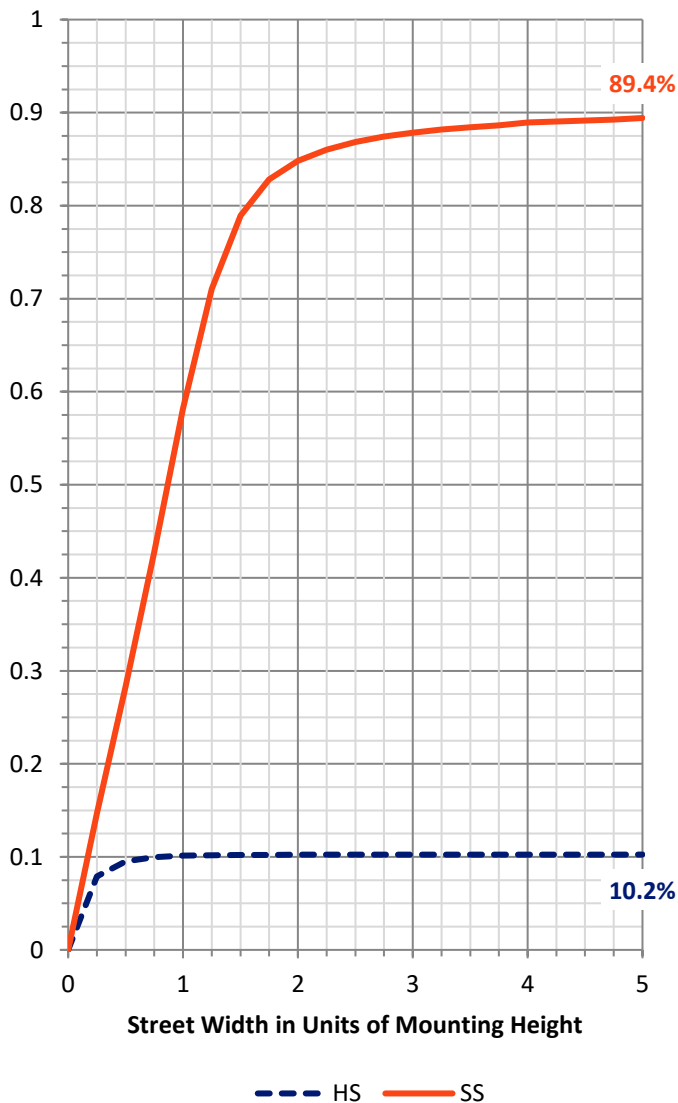
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1196.6	0.0	1196.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	10374.4	0.0	10374.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	11571.0	0.0	11571.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.4	1.9
10°-20°	489.0	4.2
20°-30°	700.4	6.1
30°-40°	1023.0	8.8
40°-50°	1715.5	14.8
50°-60°	2862.8	24.7
60°-70°	3038.8	26.3
70°-80°	1376.3	11.9
80°-90°	140.8	1.2
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°	11571.0	100.0
0°-180°	11571.0	100.0

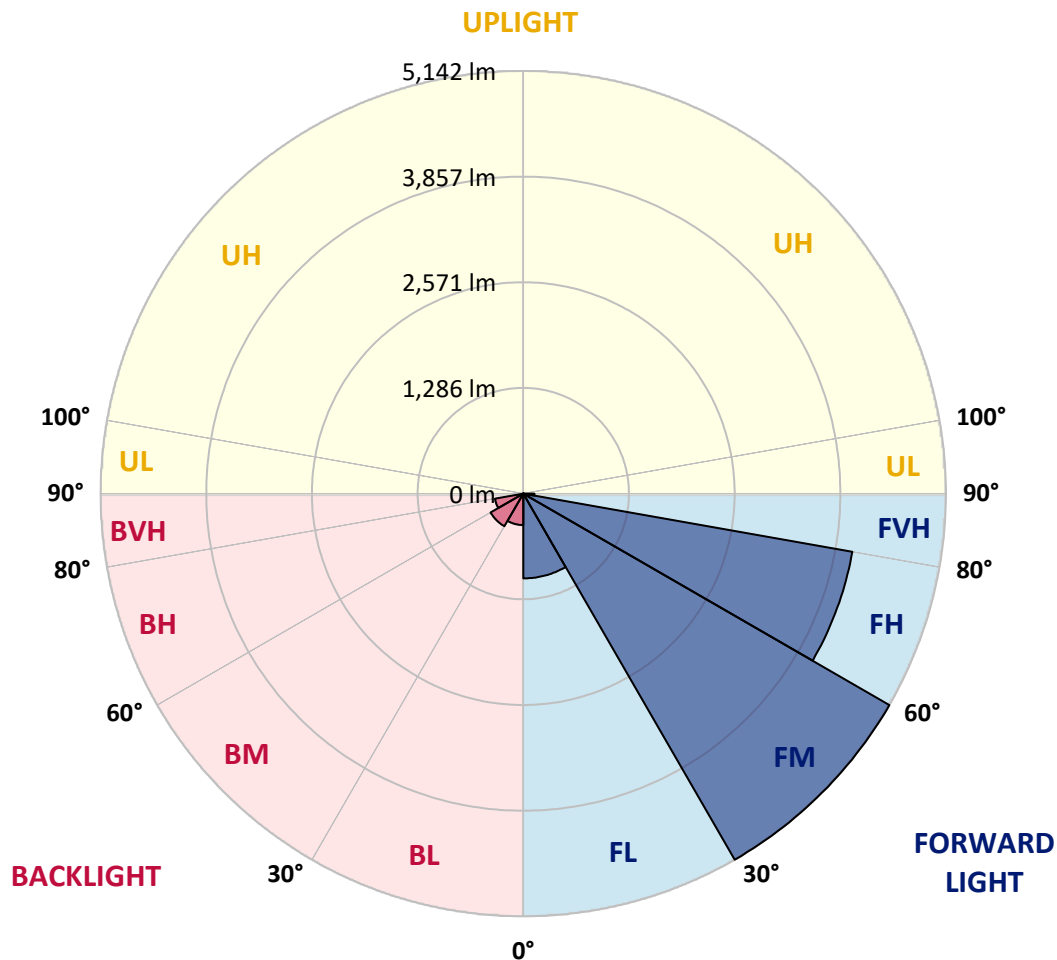


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1031.0	8.9			
FM (30°-60°)	5142.4	44.4			
FH (60°-80°)	4064.6	35.1			G2/5000
FVH (80°-90°)	136.3	1.2			G2/225
BL (0°-30°)	382.8	3.3	B1/500		
BM (30°-60°)	458.9	4.0	B1/1000		
BH (60°-80°)	350.4	3.0	B1/500		G1/500
BVH (80°-90°)	4.5	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2743.9	2743.9	2743.9	2743.9	2743.9	2743.9	2743.9	2743.9	2743.9	2743.9	2743.9
2.5°	2891.6	2894.7	2898.7	2904.1	2908.0	2896.3	2879.9	2861.1	2857.2	2817.4	2768.9
5°	2736.9	2741.6	2776.0	2794.7	2836.9	2875.2	2899.4	2902.6	2901.0	2863.5	2786.1
7.5°	2516.5	2529.8	2563.4	2596.2	2675.1	2747.8	2833.8	2894.0	2897.9	2887.7	2791.6
10°	2337.5	2346.1	2363.3	2428.2	2493.8	2604.8	2725.2	2838.5	2847.9	2888.5	2786.9
12.5°	2197.6	2210.1	2231.2	2281.3	2360.2	2464.9	2601.7	2754.1	2773.6	2873.6	2773.6
15°	2099.9	2106.2	2127.3	2176.5	2253.1	2350.0	2488.4	2665.8	2683.0	2854.1	2771.3
17.5°	2053.8	2060.9	2075.7	2114.8	2178.1	2268.0	2403.2	2594.6	2616.5	2841.6	2779.9
20°	2066.3	2072.6	2073.4	2093.7	2136.7	2212.5	2340.6	2528.2	2556.3	2833.8	2793.9
22.5°	2137.5	2138.2	2128.9	2119.5	2134.3	2189.0	2302.4	2486.0	2514.9	2832.2	2810.3
25°	2243.7	2246.1	2230.5	2197.6	2167.9	2196.1	2293.8	2458.7	2484.4	2828.3	2820.5
27.5°	2390.7	2389.9	2385.2	2330.5	2246.1	2227.3	2300.8	2443.8	2465.7	2817.4	2824.4
30°	2596.2	2590.0	2579.8	2518.1	2389.1	2303.1	2330.5	2434.4	2454.7	2801.7	2814.2
32.5°	2798.6	2822.1	2820.5	2761.9	2600.9	2438.3	2392.2	2446.9	2461.8	2791.6	2799.4
35°	3034.6	3033.9	3094.0	3072.1	2883.8	2611.1	2497.7	2488.4	2500.1	2798.6	2792.4
37.5°	3253.5	3273.8	3367.6	3390.2	3218.3	2854.9	2647.0	2577.4	2581.4	2846.3	2809.6
40°	3526.2	3565.3	3705.2	3781.0	3629.4	3216.7	2867.4	2740.8	2741.6	2963.5	2874.4
42.5°	3877.9	3939.6	4070.1	4196.8	4115.5	3645.0	3198.0	2999.5	2997.9	3169.8	3022.9
45°	4305.4	4348.4	4496.9	4697.7	4646.1	4242.9	3679.4	3400.4	3380.1	3508.2	3286.3
47.5°	4674.3	4732.9	4883.7	5112.7	5347.1	4972.8	4254.6	3951.4	3938.1	4046.7	3738.0
50°	4835.3	4886.8	5045.5	5366.7	5934.9	5930.9	5111.1	4755.5	4732.9	4791.5	4436.7
52.5°	4658.6	4707.1	4867.3	5267.4	6211.5	7098.5	6352.2	5764.5	5737.1	5662.1	5271.3
55°	4053.7	4093.6	4330.4	4789.9	6105.2	7876.9	8062.1	7011.0	6904.7	6613.2	6216.2
57.5°	3227.7	3207.4	3354.3	3888.1	5481.6	8138.0	9817.4	8563.9	8374.0	7435.4	7015.7
60°	2236.7	2299.2	2358.6	2710.3	4121.7	7685.5	10909.2	10516.1	10266.0	8244.2	7781.6
62.5°	1644.3	1685.7	1724.8	1887.4	2591.5	6136.5	11102.2	12521.5	12299.5	9103.1	8512.3
65°	1300.4	1303.6	1319.2	1479.4	1707.6	3990.4	10174.6	13652.3	13595.3	9930.0	8808.5
66°	1184.8	1185.6	1209.8	1381.7	1532.6	3249.6	9431.4	13738.3	13769.6	10128.5	8721.7
67.5°	1035.5	1032.4	1067.6	1241.8	1395.8	2343.0	8101.2	13389.8	13575.0	10280.9	8409.9
70°	802.6	798.7	841.7	1041.8	1285.6	1563.0	5384.7	11496.9	11795.5	9969.0	7440.8
72.5°	534.6	537.7	611.1	822.2	1227.0	1376.3	3239.4	8746.0	9168.0	8232.5	5853.6
75°	311.8	317.3	400.9	611.1	1065.2	1312.2	1833.4	6236.5	6506.1	5684.8	3646.6
77.5°	163.3	165.7	224.3	403.3	816.7	1218.4	1221.5	3984.2	4110.8	2762.7	1443.5
80°	86.7	84.4	120.4	243.1	561.9	1069.9	991.0	2109.3	2192.9	820.6	365.0
82.5°	32.8	35.9	64.1	159.4	332.1	768.2	853.4	932.4	903.4	180.5	153.2
85°	6.3	7.8	27.4	94.6	167.2	321.2	629.1	457.2	423.6	68.0	88.3
87.5°	0.8	1.6	7.8	22.7	24.2	108.6	186.0	126.6	109.4	25.0	36.7
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°	2743.9	2743.9	2743.9	2743.9	2743.9	2743.9	2743.9	2743.9	2743.9	2743.9	2743.9
2.5°	2745.5	2724.4	2654.0	2584.5	2513.4	2449.3	2405.5	2334.4	2316.4	2290.6	2275.8
5°	2740.0	2690.8	2555.6	2407.9	2270.3	2121.8	2008.5	1899.1	1840.5	1810.8	1799.8
7.5°	2724.4	2646.2	2435.2	2203.9	1983.5	1761.5	1568.5	1421.6	1327.0	1262.2	1218.4
10°	2693.1	2585.3	2295.3	1977.2	1644.3	1351.2	1106.6	920.6	776.8	731.5	733.1
12.5°	2661.1	2517.3	2139.0	1725.6	1313.0	943.3	683.8	536.9	468.1	445.5	440.8
15°	2631.4	2452.4	1985.8	1481.8	977.7	611.1	440.8	389.2	370.4	366.5	365.8
17.5°	2615.7	2392.2	1822.5	1202.8	682.3	415.0	353.2	339.2	333.7	329.8	328.2
20°	2602.5	2339.9	1666.2	941.7	466.6	340.0	316.5	303.2	293.9	289.9	287.6
22.5°	2593.1	2285.9	1504.4	729.2	357.2	301.7	280.6	263.4	250.1	245.4	242.3
25°	2579.0	2226.5	1341.1	533.0	300.9	268.1	243.8	223.5	206.3	197.7	196.2
27.5°	2558.7	2159.3	1162.1	394.7	268.8	238.4	208.7	183.7	166.5	157.1	157.9
30°	2525.9	2089.0	983.2	313.4	243.1	207.9	175.8	151.6	135.2	128.2	127.4
32.5°	2486.8	2003.8	819.0	268.8	219.6	180.5	146.9	125.8	113.3	107.8	107.1
35°	2450.1	1917.8	651.8	241.5	195.4	155.5	123.5	105.5	96.1	91.4	92.2
37.5°	2429.7	1841.3	508.0	219.6	175.8	133.6	106.3	90.7	82.1	78.2	77.4
40°	2443.0	1778.7	404.0	200.1	154.0	114.9	91.4	78.2	69.6	64.1	64.1
42.5°	2505.5	1751.4	325.9	181.3	133.6	99.3	79.7	67.2	57.8	52.4	53.1
45°	2696.2	1780.3	272.7	164.1	114.9	86.0	68.8	55.5	46.9	43.0	42.2
47.5°	3012.8	1888.9	236.0	146.1	98.5	73.5	57.8	46.1	37.5	34.4	33.6
50°	3566.1	2113.2	208.7	128.2	83.6	62.5	47.7	36.7	29.7	26.6	26.6
52.5°	4327.3	2602.5	189.1	107.8	70.3	53.1	39.1	29.7	23.4	21.1	20.3
55°	5122.9	3118.3	179.0	90.7	58.6	43.8	31.3	23.4	18.0	15.6	14.8
57.5°	5888.0	3523.1	167.2	73.5	46.9	33.6	24.2	18.0	12.5	10.9	10.2
60°	6621.8	3850.5	142.2	58.6	36.7	24.2	18.0	12.5	8.6	7.0	7.0
62.5°	7278.3	4041.2	111.8	46.9	28.1	17.2	11.7	9.4	6.3	4.7	4.7
65°	7354.9	3793.5	84.4	35.9	20.3	10.9	7.0	7.0	4.7	3.1	3.1
66°	7200.9	3583.3	74.2	32.8	18.0	9.4	6.3	5.5	3.9	2.3	2.3
67.5°	6857.0	3224.5	64.1	28.1	14.8	7.0	4.7	4.7	3.1	1.6	1.6
70°	5924.7	2633.7	50.8	21.1	10.9	5.5	3.1	3.1	2.3	1.6	1.6
72.5°	4515.6	1966.3	41.4	15.6	7.8	3.9	2.3	2.3	2.3	1.6	1.6
75°	2723.6	1059.0	32.0	11.7	7.0	3.1	1.6	2.3	3.1	2.3	1.6
77.5°	1003.5	360.3	25.0	9.4	5.5	3.1	1.6	1.6	3.1	2.3	2.3
80°	246.2	93.8	18.0	7.8	5.5	3.1	1.6	1.6	3.1	3.1	3.1
82.5°	114.1	39.9	12.5	7.0	5.5	3.1	1.6	1.6	2.3	3.1	3.1
85°	65.6	18.8	10.2	7.8	5.5	3.1	1.6	1.6	2.3	3.1	3.1
87.5°	26.6	9.4	9.4	7.8	6.3	3.9	1.6	1.6	1.6	2.3	2.3
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)