

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: P529011

Luminaire Tested: **GALN-SA4A-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7763 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

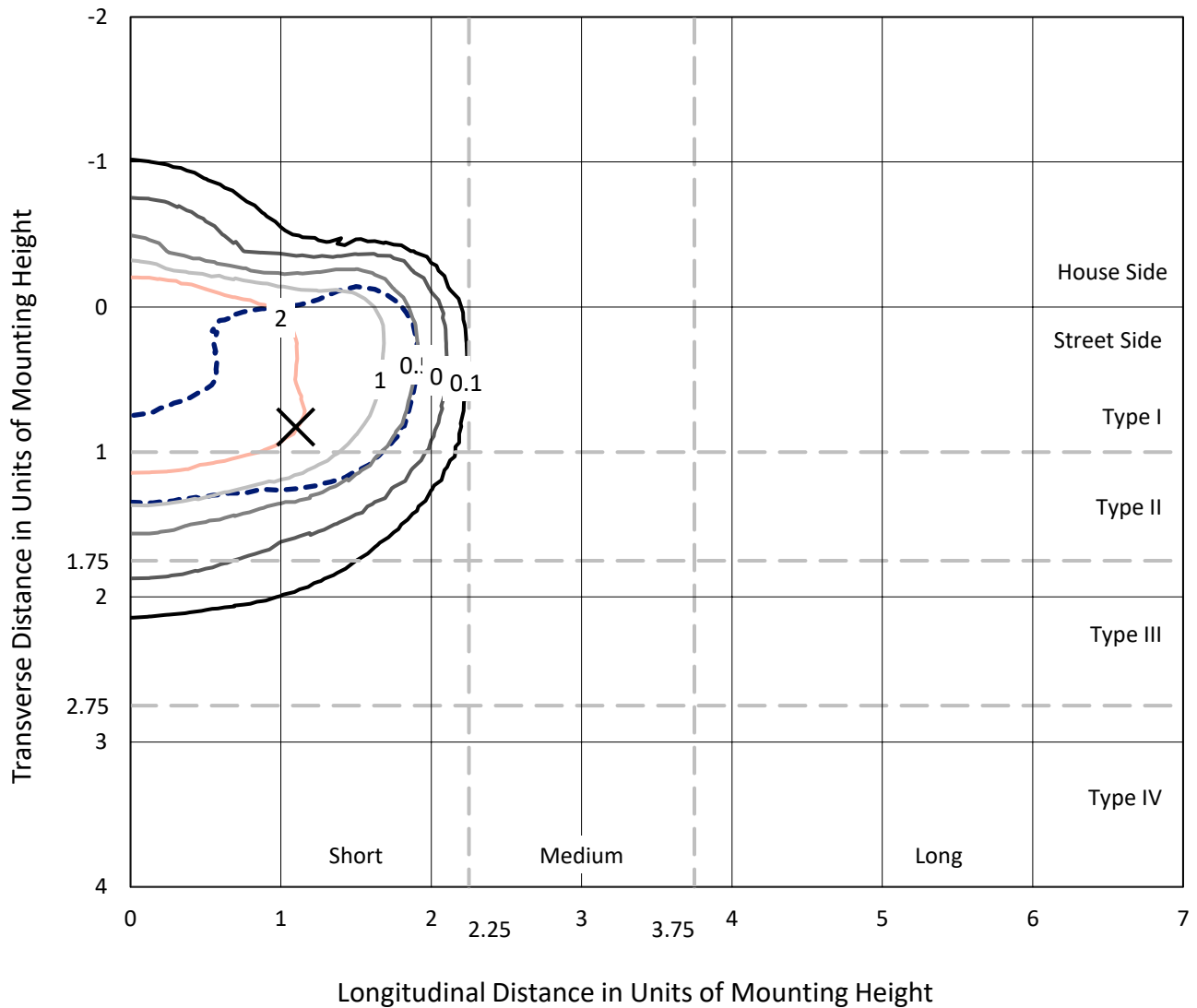
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

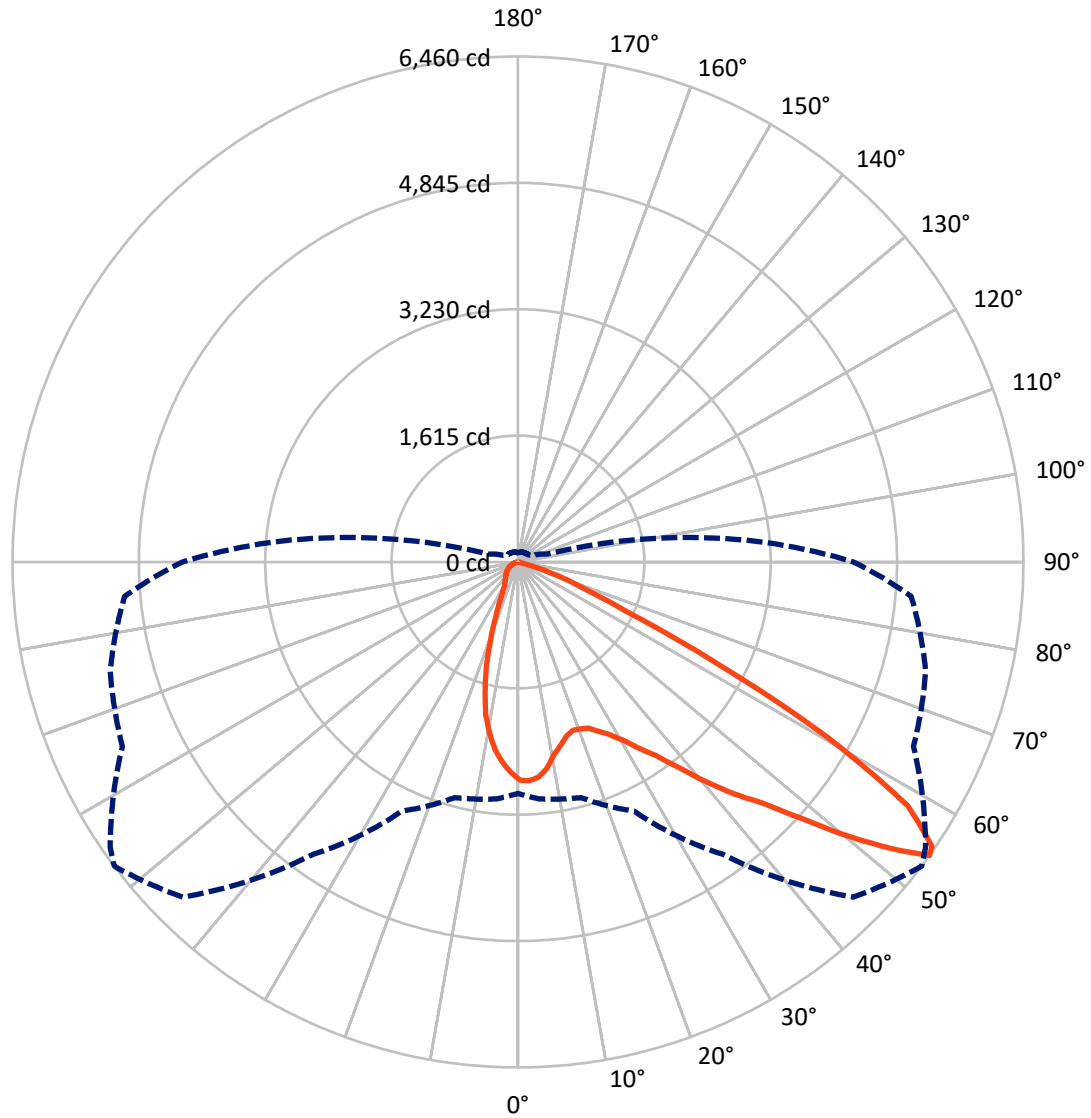
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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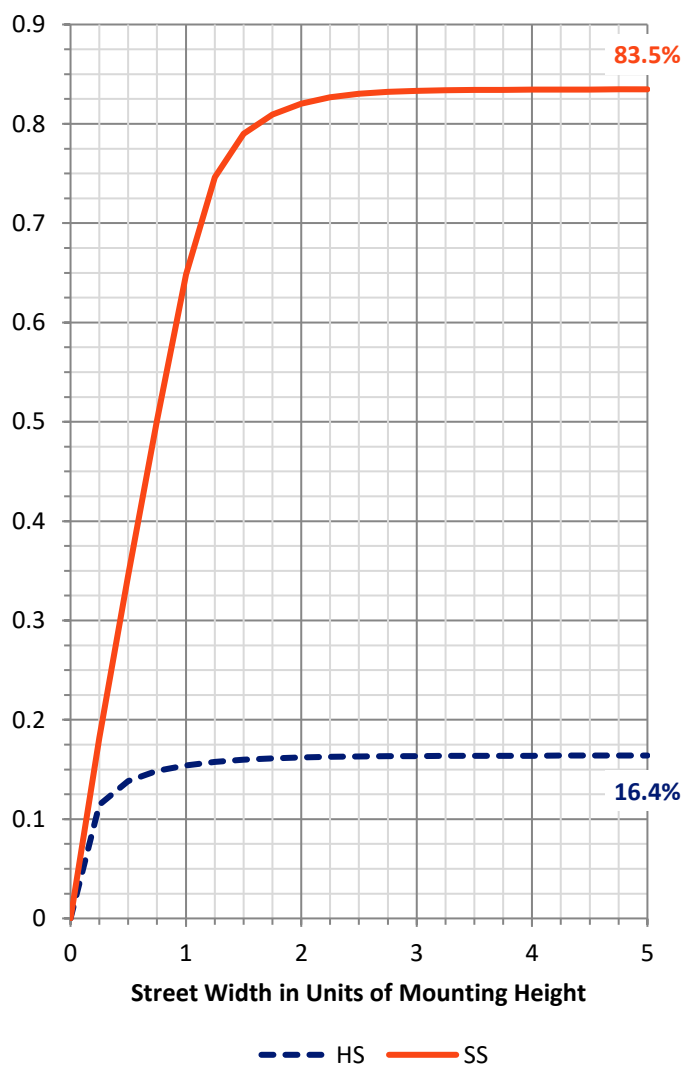
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1284.4	0.0	1284.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6478.6	0.0	6478.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	7763.0	0.0	7763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.2	3.1
10°-20°	548.5	7.1
20°-30°	779.5	10.0
30°-40°	1203.0	15.5
40°-50°	1886.2	24.3
50°-60°	2191.1	28.2
60°-70°	827.9	10.7
70°-80°	78.7	1.0
80°-90°	8.9	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°	7763.0	100.0
0°-180°	7763.0	100.0

Coefficient of Utilization

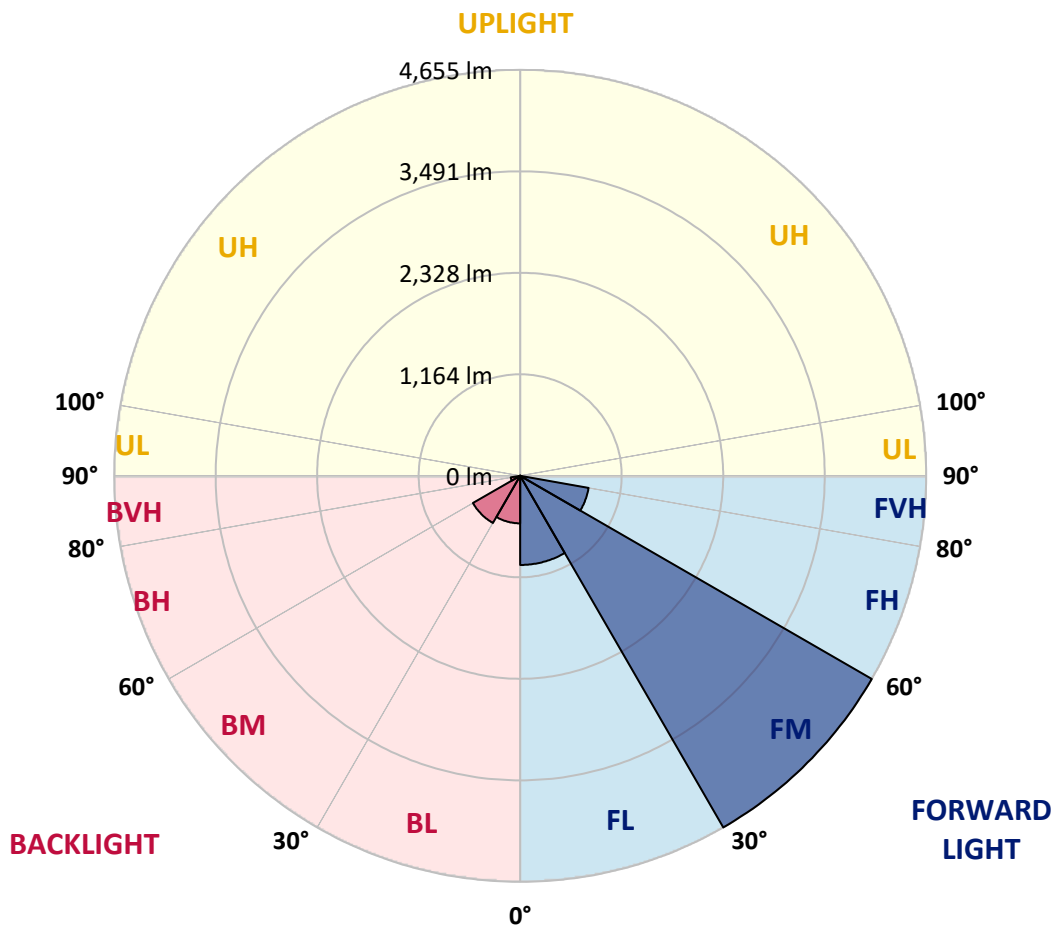


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1022.2	13.2			
FM (30°-60°)	4655.2	60.0			
FH (60°-80°)	796.6	10.3			G1/1800
FVH (80°-90°)	4.6	0.1			G0/10
BL (0°-30°)	545.0	7.0	B2/1000		
BM (30°-60°)	625.0	8.1	B1/1000		
BH (60°-80°)	110.0	1.4	B1/500		G1/500
BVH (80°-90°)	4.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3
2.5°	2773.9	2749.3	2773.9	2776.8	2794.1	2810.0	2799.9	2823.0	2810.0	2795.6	2791.2
5°	2549.7	2583.0	2584.4	2636.5	2624.9	2720.4	2762.3	2750.7	2821.6	2817.3	2807.1
7.5°	2348.7	2335.7	2353.0	2413.8	2490.4	2600.3	2661.1	2659.6	2760.9	2833.2	2825.9
10°	2162.1	2160.7	2196.8	2244.6	2309.6	2425.3	2509.2	2551.2	2708.8	2818.7	2834.6
12.5°	2036.3	2030.5	2069.6	2108.6	2211.3	2301.0	2408.0	2428.2	2609.0	2768.1	2794.1
15°	1953.9	1966.9	1969.8	2045.0	2110.1	2228.6	2312.5	2354.5	2562.7	2727.6	2827.4
17.5°	1939.4	1956.8	1958.2	2020.4	2089.8	2189.6	2263.4	2319.8	2523.7	2747.8	2828.8
20°	1968.3	1958.2	1966.9	2005.9	2073.9	2169.4	2276.4	2295.2	2510.7	2758.0	2844.7
22.5°	2050.8	2047.9	2026.2	2058.0	2105.7	2205.5	2306.7	2335.7	2548.3	2810.0	2857.8
25°	2141.9	2157.8	2137.5	2133.2	2166.5	2264.8	2399.3	2436.9	2674.1	2904.0	2898.3
27.5°	2312.5	2296.6	2296.6	2276.4	2267.7	2315.4	2499.1	2561.3	2814.4	3025.5	2944.5
30°	2476.0	2493.3	2480.3	2487.5	2429.7	2425.3	2640.8	2717.5	3063.1	3210.6	3042.9
32.5°	2734.8	2711.7	2733.4	2714.6	2637.9	2559.8	2833.2	2912.7	3363.9	3423.2	3190.4
35°	2950.3	2940.2	3032.8	3029.9	2905.5	2828.8	3037.1	3155.7	3573.6	3677.8	3363.9
37.5°	3256.9	3238.1	3343.7	3394.3	3283.0	3168.7	3329.2	3466.6	3768.9	3881.7	3541.8
40°	3572.2	3619.9	3761.7	3845.5	3726.9	3575.1	3686.4	3728.4	3899.0	4014.7	3663.3
42.5°	3971.4	4040.8	4185.4	4257.7	4247.6	4082.7	4049.5	4048.0	3993.1	3977.1	3753.0
45°	4354.6	4328.6	4551.3	4708.9	4836.2	4788.5	4399.4	4356.1	4142.0	4033.5	3776.1
47.5°	4522.4	4513.7	4665.6	4946.1	5380.0	5439.3	4908.5	4740.8	4393.7	4270.7	3901.9
50°	4305.4	4350.3	4500.7	4811.6	5476.9	5929.6	5533.3	5307.7	4687.2	4560.0	4199.9
52.5°	3596.8	3627.2	3770.3	4165.2	5147.1	6218.8	6132.0	6001.9	5226.7	5015.5	4719.1
54°	2957.5	3038.5	3116.6	3512.9	4560.0	6058.3	6460.3	6360.5	5578.1	5394.5	5045.9
55°	2575.7	2623.5	2679.9	3074.7	4153.6	5786.4	6422.7	6431.4	5813.9	5513.0	5265.7
57.5°	1881.6	1914.8	1857.0	2032.0	2852.0	4698.8	5874.6	6108.9	6132.0	5690.9	5400.2
60°	1437.6	1452.0	1386.9	1414.4	1773.1	3225.1	4544.1	4826.1	5531.8	4973.6	4574.4
62.5°	1115.0	1117.9	1116.5	1164.2	1222.1	1897.5	2841.8	3092.0	3813.7	3531.7	3106.5
65°	821.5	808.4	831.6	976.2	1042.7	1193.1	1496.9	1679.1	2072.5	1749.9	1251.0
67.5°	532.2	536.6	559.7	726.0	893.8	915.5	921.3	906.8	908.2	500.4	313.8
70°	319.6	326.8	319.6	410.7	639.2	656.6	600.2	585.7	457.0	118.6	117.1
72.5°	189.5	179.3	160.5	176.4	266.1	318.2	286.4	284.9	179.3	69.4	69.4
75°	79.5	72.3	59.3	53.5	70.9	68.0	68.0	60.7	47.7	46.3	43.4
77.5°	15.9	15.9	11.6	13.0	17.4	20.2	24.6	24.6	28.9	28.9	27.5
80°	0.0	1.4	4.3	8.7	13.0	18.8	21.7	21.7	24.6	24.6	20.2
82.5°	0.0	1.4	4.3	8.7	11.6	17.4	21.7	21.7	24.6	26.0	21.7
85°	0.0	1.4	4.3	7.2	11.6	14.5	14.5	13.0	10.1	8.7	5.8
87.5°	0.0	0.0	1.4	2.9	1.4	2.9	2.9	2.9	2.9	2.9	2.9
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°	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3
2.5°	2801.4	2799.9	2765.2	2708.8	2695.8	2648.1	2642.3	2613.3	2629.3	2575.7	2570.0
5°	2778.2	2760.9	2718.9	2682.8	2577.2	2502.0	2442.7	2370.4	2328.4	2335.7	2308.2
7.5°	2811.5	2766.6	2692.9	2567.1	2438.4	2306.7	2235.9	2088.4	2034.9	1955.3	1943.7
10°	2776.8	2743.5	2629.3	2421.0	2243.1	2053.7	1887.3	1723.9	1599.5	1546.0	1534.5
12.5°	2773.9	2716.0	2525.1	2293.7	2036.3	1764.4	1522.9	1319.0	1196.0	1126.6	1110.7
15°	2729.0	2659.6	2408.0	2097.0	1741.3	1402.8	1139.6	942.9	848.9	808.4	820.0
17.5°	2733.4	2629.3	2290.8	1888.8	1450.6	1029.7	778.1	676.8	652.3	662.4	662.4
20°	2729.0	2561.3	2149.1	1648.7	1110.7	714.4	571.3	535.1	551.0	582.8	575.6
22.5°	2705.9	2529.5	2018.9	1395.6	817.1	529.3	458.5	459.9	484.5	523.5	532.2
25°	2723.3	2458.6	1854.1	1139.6	595.8	422.3	397.7	407.8	433.9	462.8	468.6
27.5°	2710.2	2408.0	1682.0	885.1	435.3	363.0	361.6	373.1	384.7	406.4	406.4
30°	2724.7	2361.7	1512.8	658.0	358.7	332.6	326.8	335.5	347.1	351.4	350.0
32.5°	2778.2	2327.0	1317.5	491.7	316.7	303.7	303.7	303.7	302.3	308.0	309.5
35°	2895.4	2332.8	1145.4	380.4	289.2	279.1	274.8	269.0	266.1	269.0	270.4
37.5°	3022.6	2329.9	967.5	324.0	269.0	260.3	250.2	241.5	240.1	243.0	238.6
40°	3079.0	2357.4	802.7	290.7	250.2	240.1	224.2	216.9	218.4	221.3	218.4
42.5°	3155.7	2366.0	695.6	264.7	232.8	216.9	206.8	198.1	196.7	201.0	199.6
45°	3154.2	2316.9	582.8	250.2	216.9	199.6	186.6	179.3	179.3	182.2	183.7
47.5°	3246.8	2309.6	500.4	237.2	205.4	188.0	172.1	166.3	164.9	164.9	162.0
50°	3462.3	2410.9	436.8	222.7	190.9	175.0	162.0	154.7	149.0	146.1	144.6
52.5°	3883.1	2726.2	387.6	205.4	175.0	162.0	150.4	144.6	137.4	130.2	128.7
54°	4291.0	3051.6	384.7	190.9	162.0	153.3	143.2	140.3	131.6	121.5	118.6
55°	4474.6	3241.0	394.8	179.3	153.3	147.5	138.8	135.9	127.3	115.7	114.3
57.5°	4626.5	3314.8	389.0	149.0	138.8	137.4	130.2	125.8	115.7	99.8	96.9
60°	3724.1	2506.3	279.1	131.6	127.3	124.4	118.6	115.7	102.7	85.3	83.9
62.5°	2353.0	1441.9	177.9	115.7	111.4	107.0	99.8	96.9	85.3	68.0	63.6
65°	1002.2	597.3	120.0	102.7	95.5	88.2	82.4	78.1	68.0	50.6	49.2
67.5°	260.3	212.6	99.8	89.7	79.5	69.4	65.1	57.8	46.3	34.7	33.3
70°	117.1	107.0	83.9	75.2	63.6	53.5	47.7	40.5	30.4	23.1	21.7
72.5°	69.4	68.0	63.6	56.4	47.7	40.5	34.7	27.5	20.2	13.0	13.0
75°	43.4	41.9	43.4	39.0	33.3	30.4	26.0	18.8	11.6	5.8	5.8
77.5°	26.0	26.0	26.0	24.6	23.1	23.1	18.8	11.6	5.8	1.4	1.4
80°	20.2	20.2	21.7	20.2	20.2	20.2	15.9	8.7	2.9	0.0	0.0
82.5°	20.2	21.7	24.6	23.1	20.2	17.4	14.5	8.7	2.9	0.0	0.0
85°	5.8	4.3	7.2	10.1	14.5	13.0	10.1	7.2	2.9	0.0	0.0
87.5°	2.9	2.9	2.9	2.9	1.4	1.4	1.4	1.4	1.4	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)