

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: P527038

Luminaire Tested: **GALN-SA2A-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527038  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-735-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7247 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

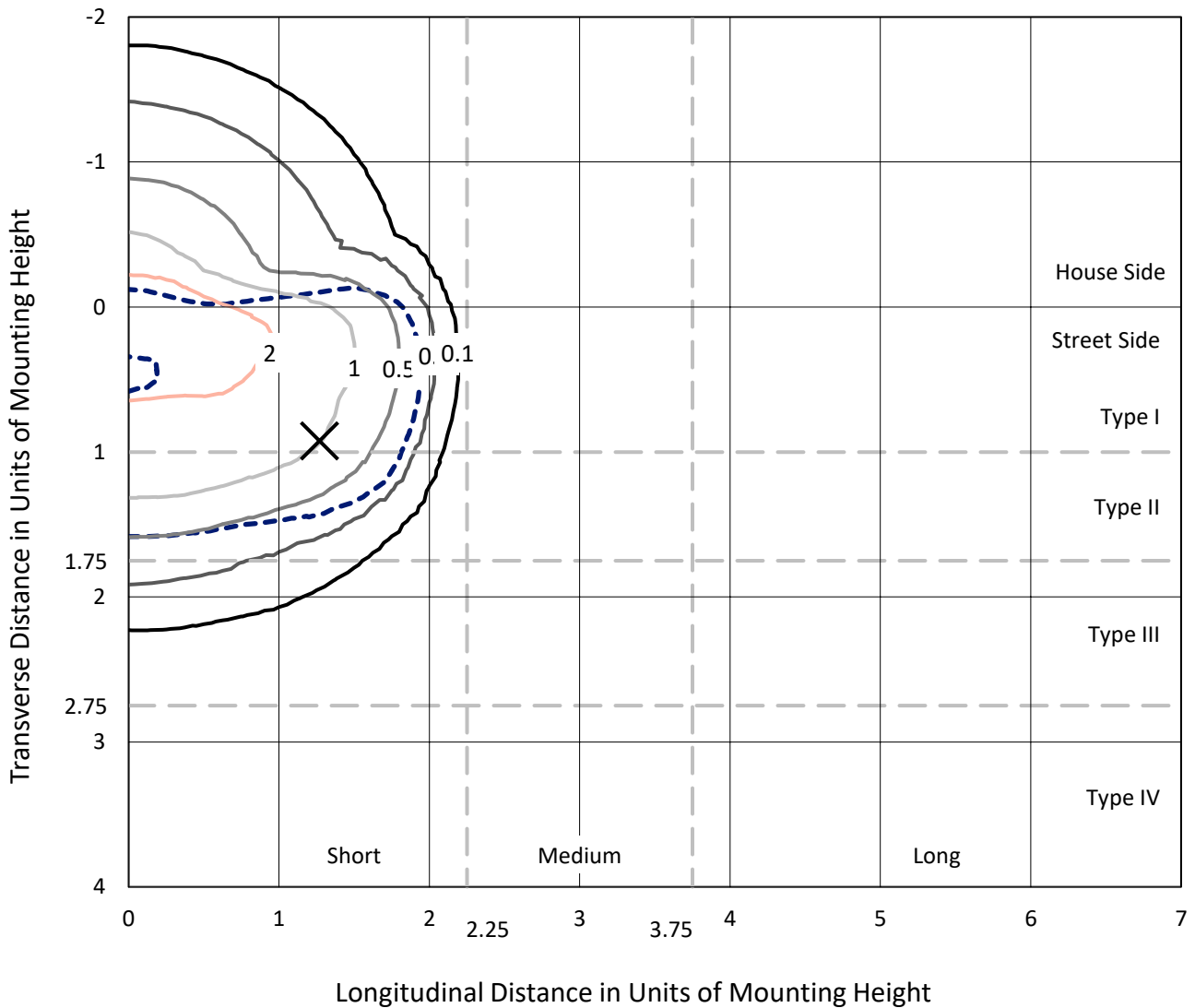
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

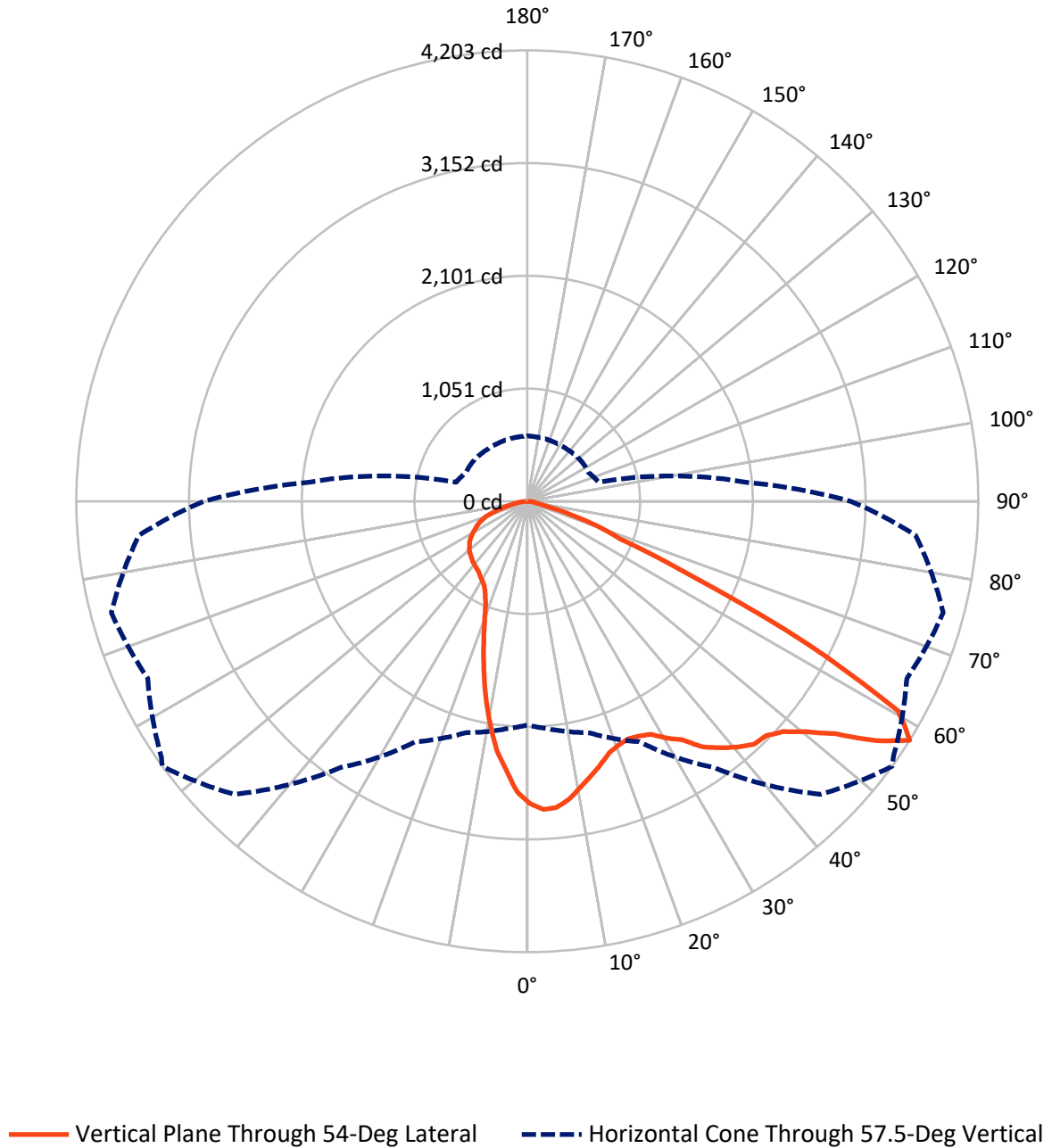
✕ Max cd  
 - - - 1/2 Max cd



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





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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2004.9	0.0	2004.9
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	5242.1	0.0	5242.1
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	7247.0	0.0	7247.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.9	3.4
10°-20°	562.5	7.8
20°-30°	790.3	10.9
30°-40°	1104.8	15.2
40°-50°	1495.7	20.6
50°-60°	1821.8	25.1
60°-70°	948.9	13.1
70°-80°	243.1	3.4
80°-90°	37.1	0.5
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°	7247.0	100.0
0°-180°	7247.0	100.0

**Coefficient of Utilization**

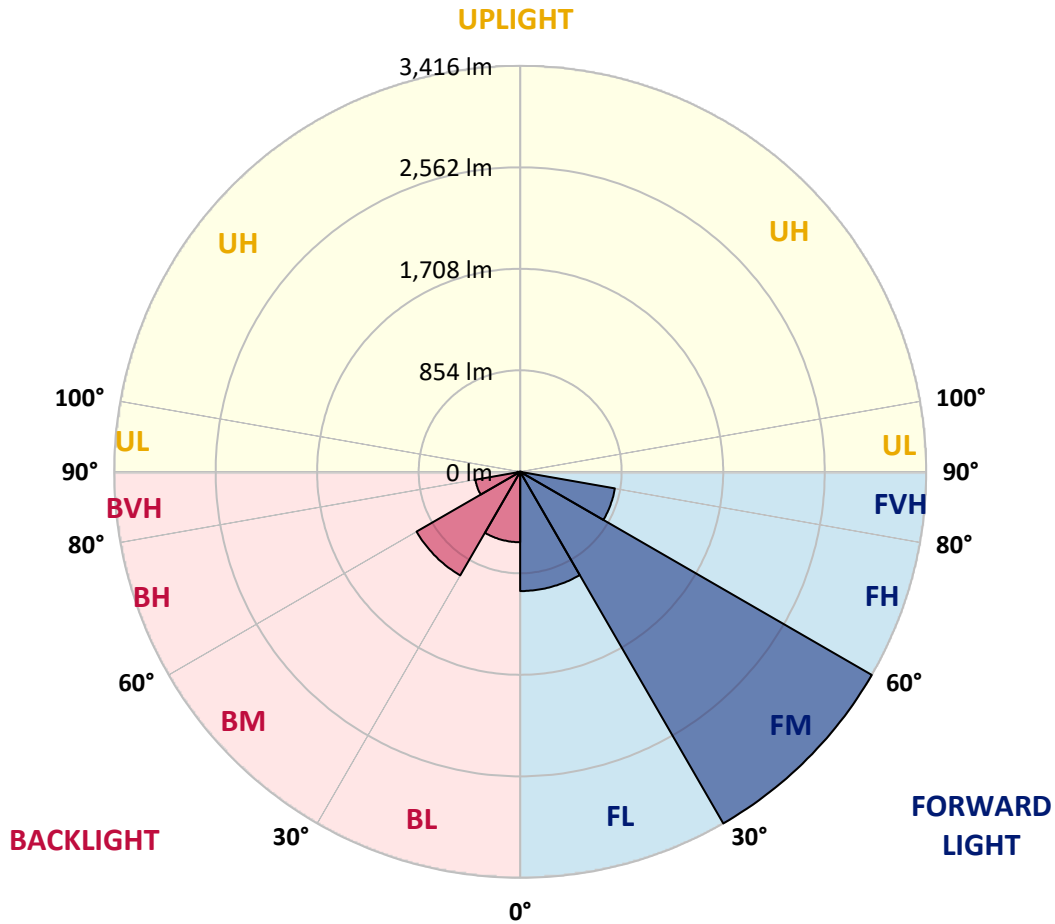


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1003.1	13.8			
FM (30°-60°)	3416.0	47.1			
FH (60°-80°)	809.0	11.2			G1/1800
FVH (80°-90°)	14.0	0.2			G1/100
BL (0°-30°)	592.6	8.2	B2/1000		
BM (30°-60°)	1006.3	13.9	B2/2500		
BH (60°-80°)	383.0	5.3	B1/500		G1/500
BVH (80°-90°)	23.1	0.3			G1/100
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°	54°	55°	65°	75°	85°
0°	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8
2.5°	2896.9	2885.8	2887.6	2902.5	2883.9	2876.4	2876.4	2840.1	2842.9	2817.8	2811.2
5°	2829.9	2803.8	2821.5	2843.8	2847.6	2855.0	2867.1	2857.8	2831.7	2804.7	2760.9
7.5°	2654.7	2678.0	2684.6	2700.4	2733.9	2764.7	2802.9	2776.8	2775.8	2748.8	2722.7
10°	2501.1	2487.1	2522.5	2545.8	2601.7	2652.9	2711.6	2708.8	2722.7	2692.0	2647.3
12.5°	2348.3	2337.1	2353.9	2407.0	2485.2	2559.7	2629.6	2603.5	2678.0	2672.4	2576.5
15°	2186.2	2194.6	2218.8	2268.2	2370.6	2460.1	2548.6	2549.5	2615.6	2638.0	2509.4
17.5°	2072.6	2063.3	2094.0	2167.6	2258.9	2366.0	2466.6	2487.1	2588.6	2601.7	2488.9
20°	1987.8	2000.8	2040.9	2078.2	2183.4	2312.9	2426.5	2434.0	2583.0	2618.4	2456.3
22.5°	1967.3	1959.9	1972.9	2033.4	2120.1	2260.7	2405.1	2433.1	2582.1	2612.8	2394.9
25°	1945.9	1970.1	1969.2	2029.7	2093.1	2218.8	2422.8	2453.5	2631.5	2641.7	2403.2
27.5°	1994.3	1991.5	2017.6	2022.3	2100.5	2230.0	2460.1	2483.4	2713.4	2705.0	2409.8
30°	2042.8	2028.8	2044.6	2099.6	2135.9	2294.3	2562.5	2560.7	2819.6	2814.0	2430.3
32.5°	2102.4	2095.9	2106.1	2154.5	2216.0	2380.0	2649.2	2704.1	2927.7	2963.1	2501.1
35°	2113.6	2140.6	2164.8	2230.0	2317.5	2518.7	2812.2	2857.8	3052.5	3163.3	2636.1
37.5°	2184.3	2194.6	2251.4	2366.9	2447.0	2704.1	2915.6	2944.4	3166.1	3291.9	2778.6
40°	2259.8	2271.9	2357.6	2478.7	2588.6	2825.2	3012.4	3021.8	3202.5	3390.6	2871.8
42.5°	2362.3	2373.4	2458.2	2610.0	2757.2	2928.6	3098.1	3108.4	3199.7	3504.3	3019.9
45°	2468.4	2495.5	2595.1	2767.5	2899.7	3049.7	3117.7	3159.6	3225.8	3605.8	3140.1
47.5°	2617.5	2642.6	2724.6	2893.2	3047.8	3155.9	3208.1	3249.0	3288.2	3694.3	3217.4
50°	2775.8	2780.5	2880.2	3032.9	3146.6	3276.1	3376.7	3390.6	3370.1	3796.8	3348.7
52.5°	2892.3	2907.2	2984.5	3133.5	3303.1	3462.3	3600.2	3615.1	3575.1	3834.9	3393.4
55°	2699.5	2691.1	2816.8	3015.2	3408.3	3739.9	3940.2	3951.4	3724.1	3953.2	3539.7
57.5°	2086.5	2126.6	2233.7	2473.1	3028.3	3862.9	4202.9	4162.8	3902.9	4012.9	3632.8
60°	1516.5	1507.2	1578.9	1739.1	2282.2	3329.1	3973.7	4014.7	3756.7	3617.0	2995.7
62.5°	1235.2	1222.1	1227.7	1233.3	1472.7	2209.5	2941.6	2940.7	2893.2	2599.8	2020.4
65°	987.4	1018.1	1020.9	1062.8	1093.6	1319.9	1704.6	1795.9	1564.0	1282.7	930.6
67.5°	744.3	733.1	770.3	919.4	977.1	952.9	930.6	940.8	668.8	482.5	454.6
70°	438.7	434.1	478.8	640.9	804.8	757.3	701.4	702.3	459.2	337.2	375.4
72.5°	240.3	239.4	248.7	325.1	457.4	475.1	421.0	434.1	273.9	272.9	293.4
75°	134.1	131.3	128.5	143.4	164.9	174.2	177.9	179.8	188.2	210.5	218.9
77.5°	49.4	47.5	47.5	55.0	69.9	87.6	110.8	112.7	133.2	152.8	161.1
80°	16.8	18.6	25.2	34.5	46.6	62.4	75.5	77.3	94.1	107.1	109.9
82.5°	10.2	11.2	16.8	24.2	33.5	43.8	55.9	56.8	69.9	78.2	82.0
85°	4.7	5.6	9.3	14.9	21.4	28.9	29.8	29.8	28.9	29.8	27.9
87.5°	0.0	0.0	1.9	1.9	1.9	2.8	3.7	2.8	4.7	5.6	5.6
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°	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8	2816.8
2.5°	2791.7	2781.4	2749.8	2721.8	2713.4	2676.2	2621.2	2627.7	2587.7	2606.3	2586.7
5°	2753.5	2719.0	2638.0	2603.5	2513.2	2472.2	2444.2	2374.4	2341.8	2335.2	2307.3
7.5°	2655.7	2634.3	2532.7	2439.6	2343.6	2261.7	2156.4	2084.7	2033.4	2019.5	1978.5
10°	2578.4	2530.9	2390.2	2248.6	2111.7	1969.2	1832.2	1725.1	1673.0	1612.4	1591.9
12.5°	2502.0	2430.3	2240.2	2058.6	1881.6	1701.8	1536.0	1405.6	1292.0	1265.0	1255.6
15°	2454.5	2329.7	2106.1	1887.2	1635.7	1401.0	1235.2	1149.5	1079.6	1050.7	1071.2
17.5°	2392.1	2246.8	1977.6	1686.0	1409.3	1193.2	1054.4	1001.4	976.2	979.0	970.6
20°	2313.8	2168.5	1809.0	1503.4	1207.2	1034.9	955.7	936.1	939.9	946.4	943.6
22.5°	2257.9	2073.5	1686.9	1317.1	1043.3	947.3	914.7	900.8	912.9	918.4	913.8
25°	2215.1	1992.5	1538.8	1152.3	948.3	898.0	883.1	882.1	900.8	908.2	903.5
27.5°	2176.0	1917.0	1391.6	1026.5	884.9	859.8	855.1	866.3	878.4	885.8	892.4
30°	2152.7	1859.3	1253.8	921.2	853.2	841.1	832.8	843.0	849.5	857.0	853.2
32.5°	2175.0	1818.3	1120.6	861.6	827.2	815.1	826.2	819.7	830.9	837.4	827.2
35°	2244.9	1781.9	1025.6	830.0	797.4	802.0	803.9	801.1	805.7	800.1	812.3
37.5°	2313.8	1768.9	938.0	802.9	783.4	783.4	781.5	775.9	785.2	783.4	789.0
40°	2401.4	1777.3	863.5	774.1	770.3	768.5	761.0	760.1	756.4	757.3	759.2
42.5°	2477.8	1795.9	820.6	755.4	758.2	762.0	748.0	736.8	741.5	732.2	732.2
45°	2558.8	1812.7	782.5	742.4	739.6	738.7	727.5	721.0	717.2	718.2	726.6
47.5°	2686.4	1836.9	753.6	724.7	726.6	712.6	709.8	701.4	705.1	710.7	711.7
50°	2776.8	1888.1	731.2	704.2	710.7	701.4	684.6	680.9	680.9	690.2	688.4
52.5°	2840.1	1959.9	709.8	681.9	684.6	677.2	671.6	663.2	657.6	670.7	677.2
55°	3033.9	2079.1	704.2	663.2	662.3	654.8	644.6	636.2	633.4	635.3	648.3
57.5°	3015.2	2041.8	686.5	630.6	628.8	618.5	608.3	605.5	604.5	606.4	610.1
60°	2448.0	1508.1	612.9	593.4	590.6	588.7	578.5	567.3	561.7	567.3	562.6
62.5°	1619.9	1009.7	540.3	548.6	550.5	545.9	529.1	517.9	519.8	526.3	516.0
65°	795.5	593.4	490.0	512.3	514.2	501.1	485.3	472.3	465.7	471.3	466.7
67.5°	454.6	453.6	449.0	472.3	471.3	458.3	433.1	422.0	410.8	412.7	409.9
70°	385.6	393.1	402.4	416.4	415.4	400.5	370.7	362.3	346.5	344.7	340.0
72.5°	303.7	316.7	337.2	347.4	339.1	320.4	300.9	286.9	272.9	264.5	267.3
75°	225.4	244.1	255.2	261.7	248.7	238.5	222.6	205.9	189.1	181.6	178.8
77.5°	163.9	169.5	179.8	184.4	176.1	165.8	156.5	139.7	123.9	113.6	110.8
80°	114.6	118.3	125.8	125.8	125.8	121.1	109.0	92.2	82.0	72.7	70.8
82.5°	80.1	83.8	91.3	87.6	86.6	81.0	73.6	60.5	49.4	42.8	41.0
85°	27.9	30.7	37.3	44.7	47.5	46.6	41.9	33.5	26.1	21.4	19.6
87.5°	6.5	6.5	7.5	6.5	6.5	7.5	6.5	6.5	6.5	4.7	3.7
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)