

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: P382917

Luminaire Tested: **GLEON-SA2D-735-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382917  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2D-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14052.4 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

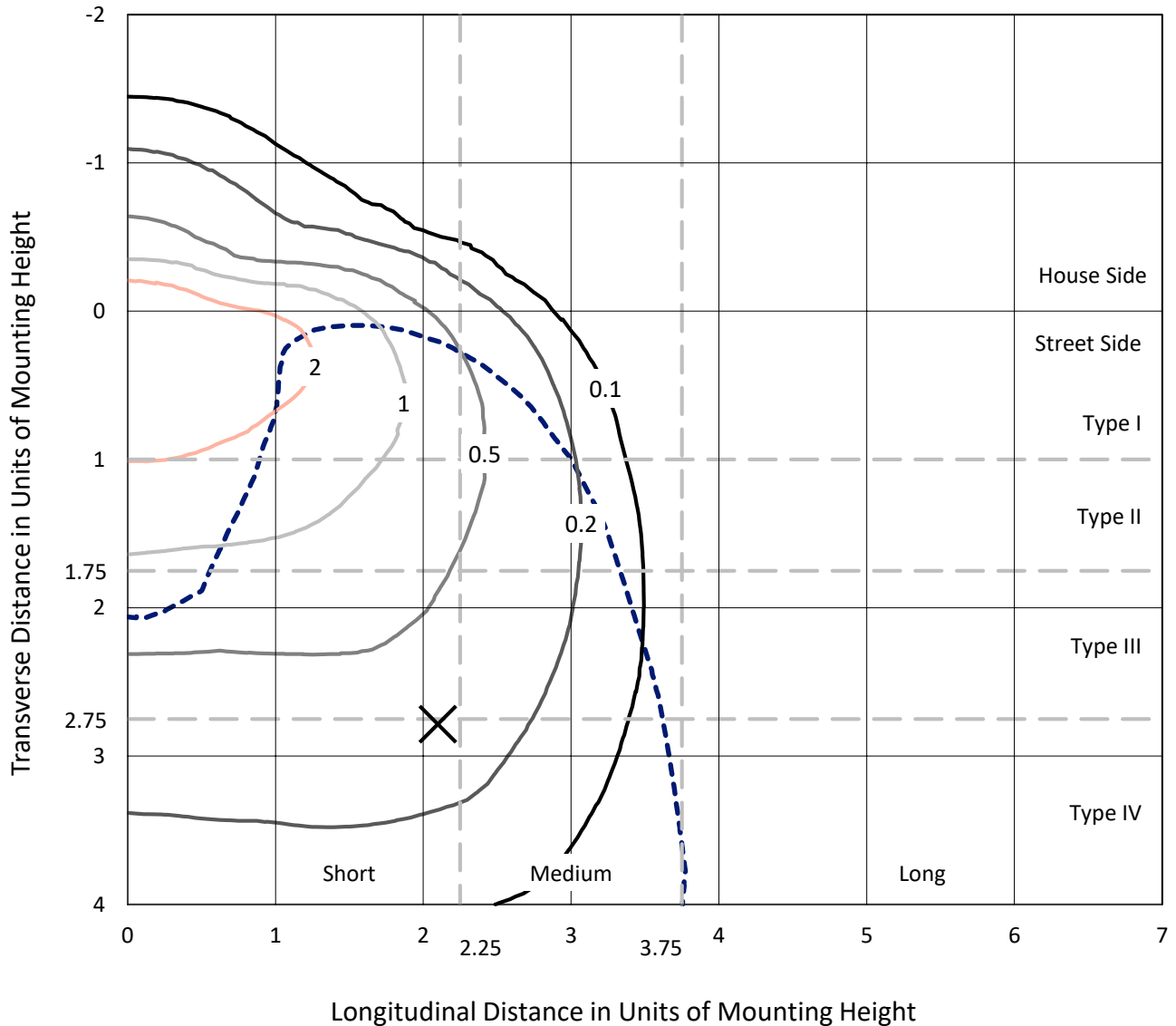
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

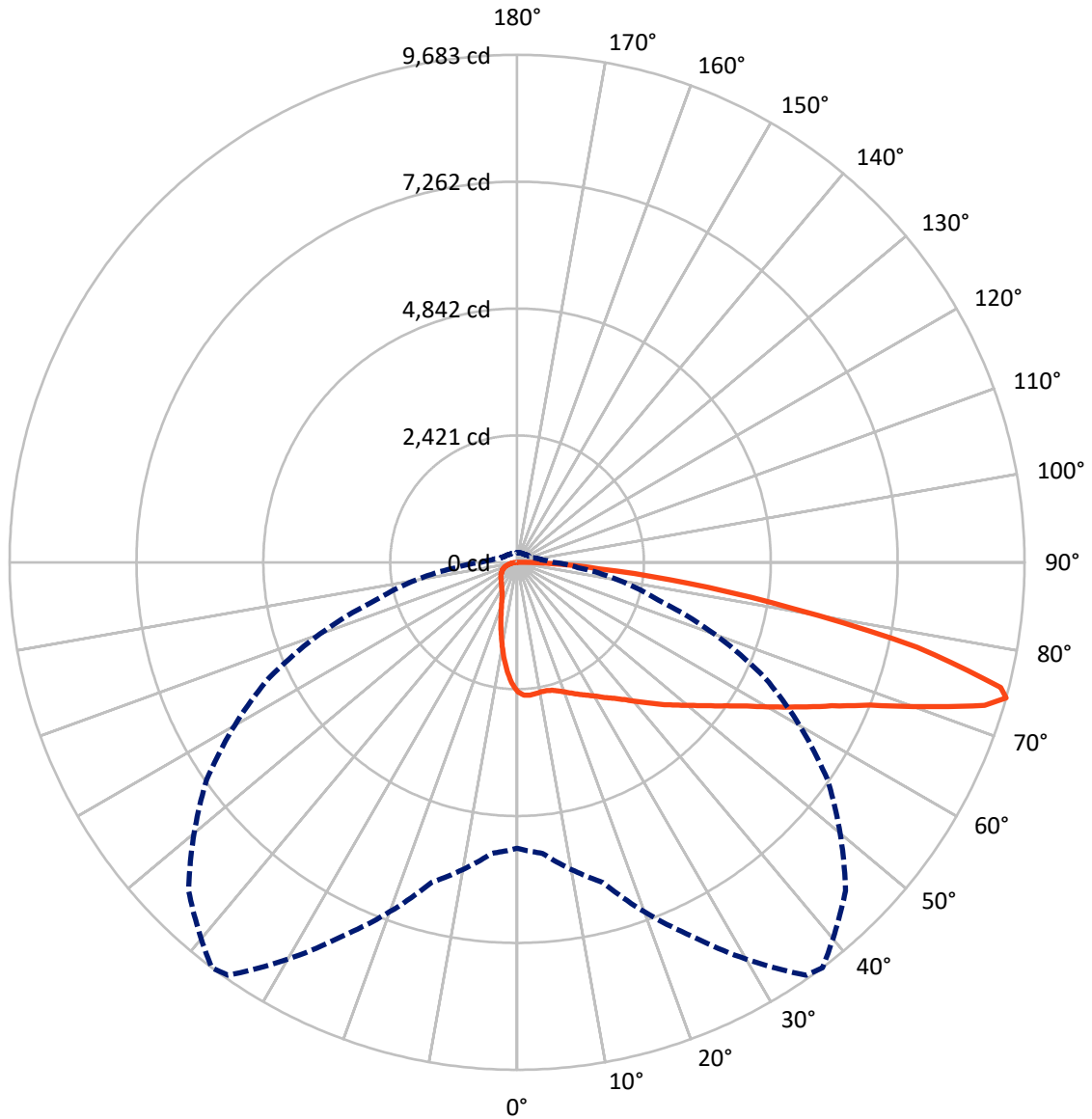
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1933.5	0.0	1933.5
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	12118.9	0.0	12118.9
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	14052.4	0.0	14052.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.0	1.6
10°-20°	558.9	4.0
20°-30°	861.1	6.1
30°-40°	1252.2	8.9
40°-50°	1843.1	13.1
50°-60°	2588.2	18.4
60°-70°	3275.9	23.3
70°-80°	2884.6	20.5
80°-90°	570.3	4.1
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°	14052.4	100.0
0°-180°	14052.4	100.0

**Coefficient of Utilization**

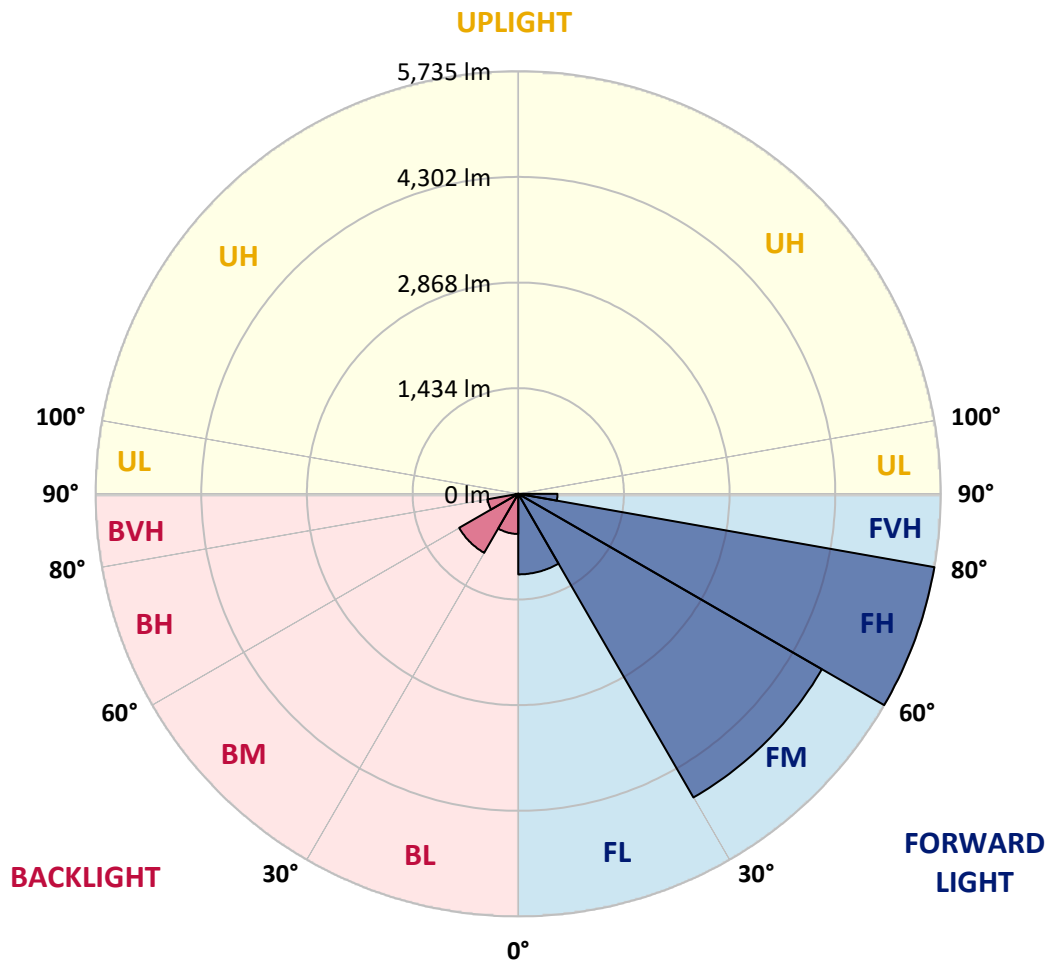


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1093.4	7.8			
FM (30°-60°)	4758.3	33.9			
FH (60°-80°)	5735.5	40.8			G3/7500
FVH (80°-90°)	531.7	3.8			G4/750
BL (0°-30°)	544.6	3.9	B2/1000		
BM (30°-60°)	925.3	6.6	B1/1000		
BH (60°-80°)	425.0	3.0	B1/500		G1/500
BVH (80°-90°)	38.6	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-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0
2.5°	2560.6	2561.1	2560.6	2556.6	2547.2	2539.3	2532.9	2523.5	2502.7	2486.9	2463.1
5°	2584.9	2581.9	2579.9	2572.5	2557.7	2548.7	2536.3	2518.5	2484.4	2452.7	2414.1
7.5°	2573.5	2570.0	2565.6	2556.6	2539.9	2532.4	2515.1	2491.8	2450.7	2409.2	2353.7
10°	2538.4	2537.3	2535.4	2533.4	2519.0	2513.1	2497.3	2472.5	2431.9	2381.4	2316.6
12.5°	2499.2	2501.7	2509.7	2520.0	2513.6	2510.6	2500.7	2483.9	2442.3	2387.8	2309.7
15°	2474.5	2481.5	2502.7	2529.9	2535.4	2534.4	2531.9	2521.0	2477.0	2416.6	2325.5
17.5°	2466.1	2477.5	2518.1	2563.1	2578.9	2582.4	2583.4	2564.6	2515.6	2451.7	2341.8
20°	2481.5	2495.8	2555.1	2617.1	2642.3	2644.3	2639.8	2607.1	2552.2	2481.9	2350.8
22.5°	2527.9	2540.8	2615.0	2684.9	2713.6	2716.6	2703.2	2653.7	2590.8	2517.6	2363.1
25°	2617.6	2633.4	2707.6	2777.4	2792.3	2792.8	2773.5	2712.1	2641.3	2567.5	2389.9
27.5°	2734.4	2750.2	2817.0	2885.4	2877.5	2873.0	2846.7	2785.3	2707.2	2636.4	2437.4
30°	2864.5	2881.8	2945.3	2993.7	2974.9	2966.0	2944.7	2865.5	2798.7	2730.4	2510.1
32.5°	2999.2	3015.0	3070.5	3103.6	3079.9	3075.9	3043.7	2971.5	2918.0	2873.9	2627.9
35°	3137.3	3148.7	3203.1	3221.9	3190.3	3189.2	3180.4	3114.1	3080.3	3101.1	2799.2
37.5°	3278.4	3281.4	3327.9	3328.9	3319.5	3323.4	3332.8	3291.3	3300.7	3365.5	3021.9
40°	3404.1	3412.0	3445.7	3456.0	3472.4	3486.2	3533.3	3506.1	3578.8	3693.7	3299.2
42.5°	3497.1	3512.5	3566.4	3593.2	3646.2	3668.0	3734.3	3759.5	3906.0	4078.3	3628.8
45°	3575.8	3599.6	3686.2	3741.2	3830.8	3868.9	3963.9	4048.6	4275.8	4495.6	3975.8
47.5°	3661.0	3691.2	3799.6	3904.6	4026.3	4069.4	4242.2	4368.9	4670.3	4915.3	4303.0
50°	3786.3	3809.5	3915.4	4080.3	4232.2	4287.6	4526.8	4708.4	5071.3	5315.3	4586.7
52.5°	3960.9	3952.1	4041.6	4272.8	4476.7	4545.0	4830.7	5069.8	5477.7	5677.1	4826.3
55°	4136.7	4121.8	4184.7	4474.3	4761.9	4833.6	5165.3	5432.6	5864.3	6002.8	5009.9
57.5°	4332.3	4304.0	4356.9	4701.5	5086.6	5172.2	5540.0	5818.2	6244.3	6266.1	5126.7
60°	4533.7	4495.6	4555.0	4983.1	5498.9	5599.9	5978.6	6194.4	6602.8	6477.1	5164.3
62.5°	4709.9	4683.2	4774.7	5297.4	5963.8	6074.6	6409.2	6594.3	6956.2	6564.6	5028.7
65°	4863.9	4868.3	5026.7	5650.9	6482.0	6600.3	6903.2	7087.4	7234.4	6512.7	4711.4
67.5°	5047.5	5072.7	5343.0	6116.2	7134.4	7264.1	7622.0	7624.9	7389.8	6207.7	4086.7
70°	5315.3	5367.3	5778.1	6761.6	8062.0	8240.2	8516.4	7940.8	7171.5	5381.1	3215.5
72.5°	5552.9	5649.9	6240.9	7500.2	9192.6	9327.8	9039.6	7758.6	6259.3	4032.8	2003.3
74°	5456.4	5576.6	6325.1	7864.0	9618.3	9683.2	8862.9	7226.9	5218.7	2792.8	1164.2
75°	5248.4	5379.1	6202.3	7860.6	9564.4	9528.2	8436.3	6619.6	4298.1	1904.7	774.7
77.5°	4235.7	4373.8	5226.2	6737.0	7842.2	7808.0	6480.5	4440.6	1882.5	624.7	393.5
80°	2462.6	2568.1	3244.2	4278.2	5288.0	5350.0	4261.9	2197.3	740.5	350.9	266.8
82.5°	1093.9	1166.7	1567.1	2183.9	3191.2	3270.9	2232.0	1151.4	457.4	213.3	160.4
85°	717.8	771.7	951.4	1040.0	1519.6	1574.1	1092.4	896.4	301.9	117.3	117.8
87.5°	516.3	568.2	706.9	617.2	697.4	660.3	594.5	829.6	121.3	66.8	39.6
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°	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0
2.5°	2452.7	2444.8	2427.0	2393.3	2374.5	2358.7	2332.4	2317.0	2310.1	2309.7	2312.7
5°	2391.8	2373.5	2327.5	2271.0	2226.0	2184.9	2133.9	2103.2	2081.4	2068.6	2072.0
7.5°	2321.0	2292.4	2220.1	2130.0	2057.7	1978.0	1899.3	1852.3	1815.7	1788.4	1793.4
10°	2272.5	2232.9	2127.5	1997.8	1877.5	1761.6	1653.3	1588.5	1537.0	1497.4	1500.4
12.5°	2256.2	2202.7	2056.7	1883.5	1714.7	1556.2	1414.7	1315.3	1262.2	1217.2	1220.7
15°	2258.6	2186.9	1997.3	1780.5	1568.2	1368.6	1196.9	1080.6	1008.8	977.7	978.1
17.5°	2260.7	2168.5	1934.9	1670.1	1423.1	1193.4	1006.8	889.0	821.2	792.5	793.0
20°	2254.3	2138.9	1857.7	1543.4	1271.7	1032.5	851.9	751.9	700.4	678.2	678.2
22.5°	2245.8	2103.7	1770.6	1416.2	1122.1	893.0	741.0	664.8	635.0	620.2	619.8
25°	2249.8	2077.5	1681.5	1285.5	984.6	781.6	667.3	616.8	596.9	587.5	587.1
27.5°	2271.0	2065.1	1599.4	1155.3	864.3	697.9	617.8	582.1	569.3	563.3	563.3
30°	2309.7	2065.1	1513.7	1044.5	764.2	636.1	579.6	555.4	546.4	542.5	542.5
32.5°	2376.9	2076.5	1431.0	934.5	684.6	587.5	547.9	531.6	524.7	522.7	522.7
35°	2492.8	2115.1	1350.4	830.6	620.2	547.9	517.8	508.3	503.4	502.9	504.4
37.5°	2655.7	2193.8	1274.6	753.9	574.7	515.8	492.5	485.1	482.2	484.6	486.5
40°	2860.6	2300.7	1205.8	684.6	540.0	490.1	469.2	464.3	462.8	466.3	469.2
42.5°	3108.1	2445.3	1149.3	634.6	513.3	468.3	449.5	443.5	442.0	446.0	449.9
45°	3375.9	2600.7	1109.8	597.5	492.5	451.9	432.1	425.7	422.7	424.7	429.2
47.5°	3619.4	2747.7	1093.9	571.2	472.8	438.1	416.8	408.9	403.9	402.9	406.4
50°	3824.8	2857.1	1101.4	555.4	456.9	422.7	402.0	393.0	385.6	381.2	383.6
52.5°	3974.4	2925.9	1108.3	548.5	444.5	405.9	385.6	377.2	367.3	359.9	359.9
55°	4082.7	2941.7	1093.0	543.0	435.1	387.6	367.3	359.4	349.4	341.0	340.1
57.5°	4125.3	2897.2	1036.1	535.1	428.7	370.3	348.0	342.1	333.6	323.7	323.2
60°	4067.9	2759.6	926.1	518.2	420.2	355.9	328.6	324.7	320.7	311.3	310.9
62.5°	3837.2	2457.7	784.1	484.1	403.5	340.6	310.9	312.8	313.4	306.9	305.9
65°	3419.0	2042.9	645.5	439.6	378.2	322.2	292.5	301.9	307.4	306.4	304.9
67.5°	2811.1	1590.0	547.0	392.6	345.0	297.0	272.8	283.7	288.1	291.6	290.5
70°	2086.4	1121.2	452.5	343.0	304.9	267.3	247.0	252.4	249.5	253.5	255.0
72.5°	1163.2	672.7	368.8	293.5	263.3	232.6	218.3	217.3	210.9	210.9	210.9
74°	697.9	493.5	324.2	262.9	238.1	209.9	197.5	193.0	187.1	187.6	187.1
75°	561.4	424.2	297.5	242.6	220.3	196.6	184.2	178.2	173.7	173.7	173.3
77.5°	354.5	322.2	239.6	193.0	176.2	161.9	153.4	145.5	145.5	145.0	144.6
80°	267.8	256.5	186.6	146.1	135.2	124.3	118.8	115.3	115.3	116.8	116.4
82.5°	183.6	193.0	131.2	102.0	96.5	88.6	87.7	88.1	86.6	84.7	84.1
85°	134.1	145.0	88.6	64.4	58.9	53.9	57.9	59.9	57.4	53.0	51.0
87.5°	51.5	95.0	47.5	26.7	24.8	21.2	24.8	25.7	27.8	21.8	22.3
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)