

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: P458666

Luminaire Tested: **GALN-SA2B-735-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458666  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8818 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

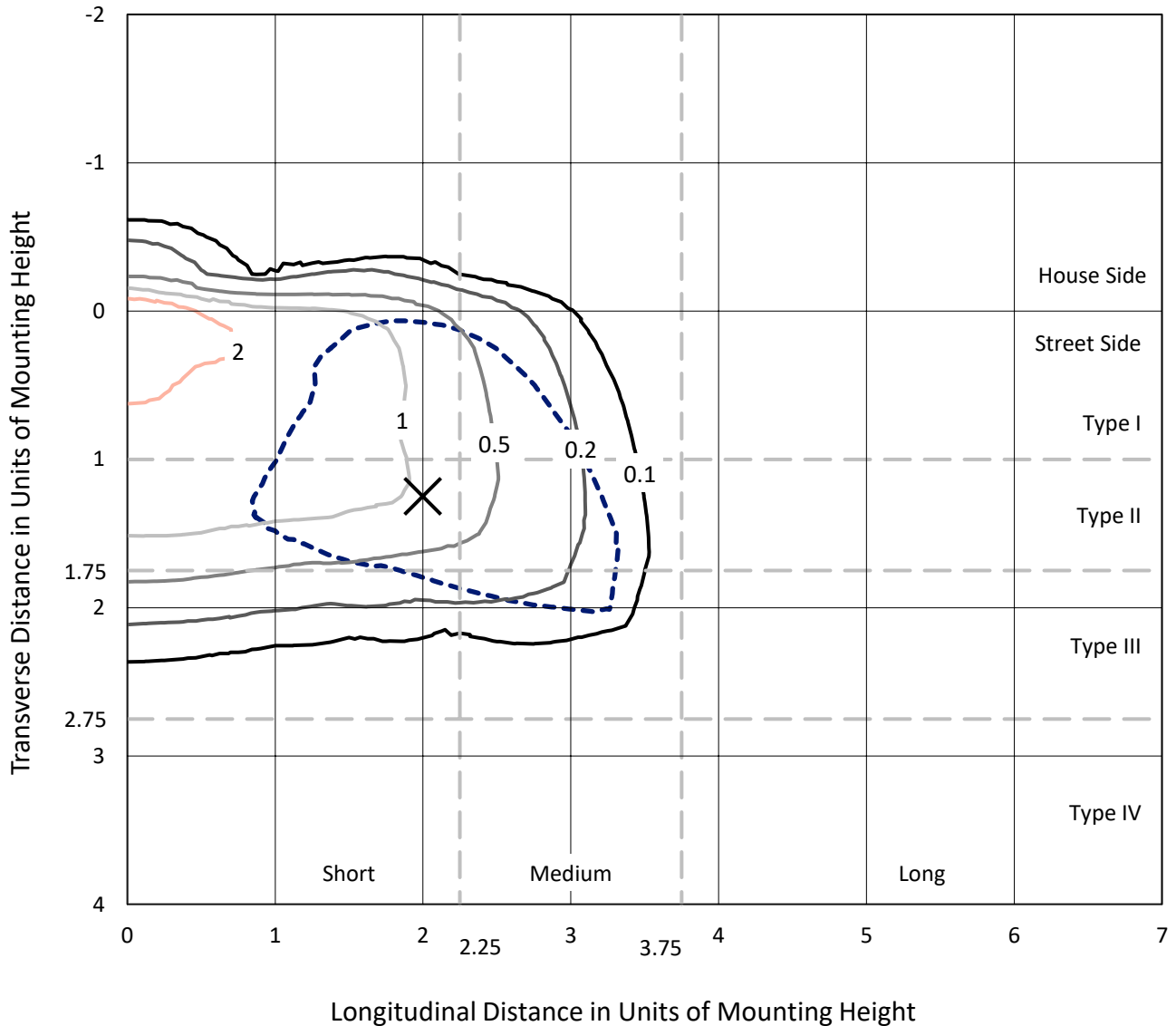
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

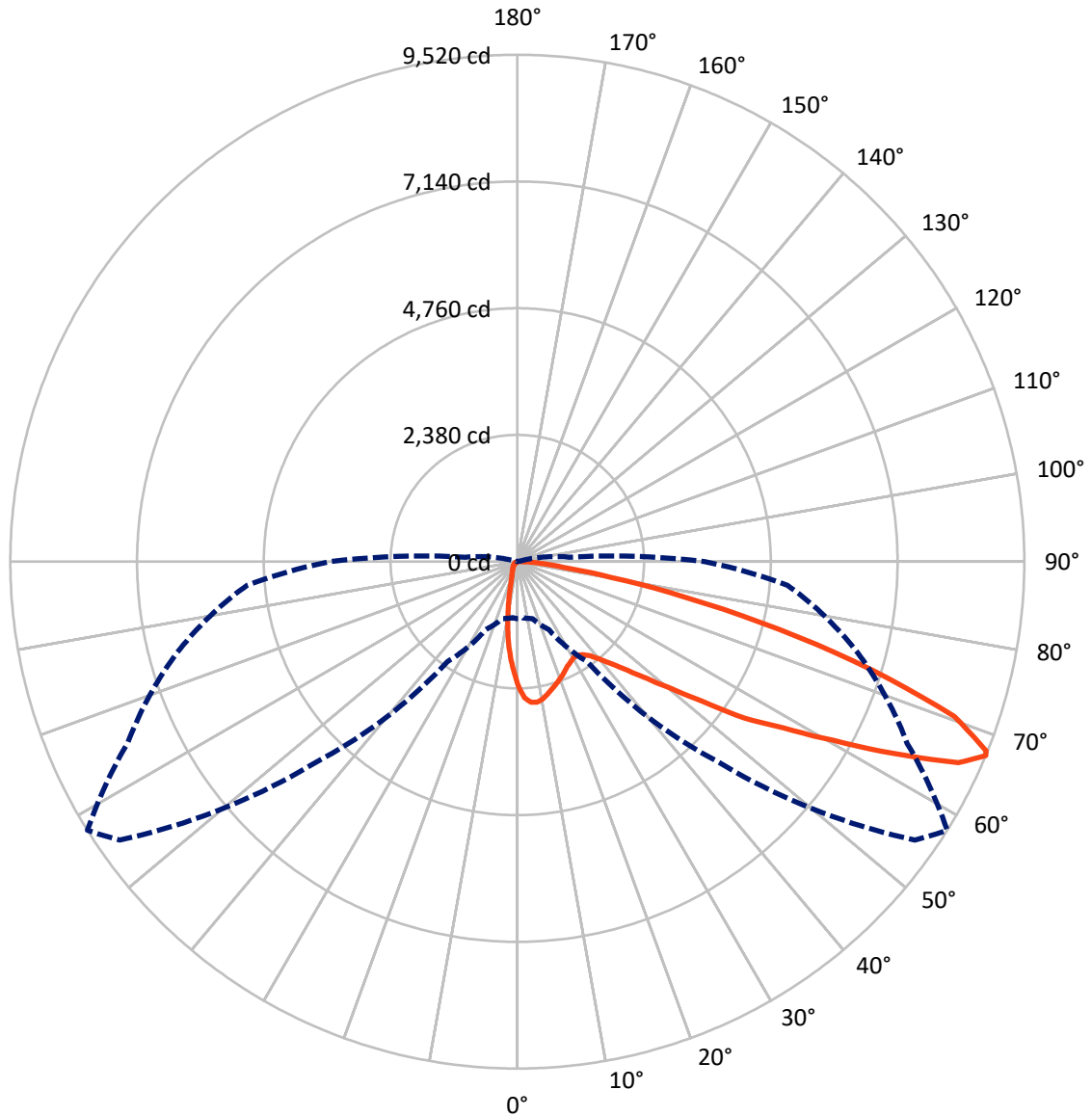
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	636.4	0.0	636.4
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	8181.7	0.0	8181.7
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	8818.0	0.0	8818.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.7	2.2
10°-20°	409.7	4.6
20°-30°	555.1	6.3
30°-40°	770.0	8.7
40°-50°	1228.0	13.9
50°-60°	2122.7	24.1
60°-70°	2424.8	27.5
70°-80°	1010.9	11.5
80°-90°	107.2	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°	8818.0	100.0
0°-180°	8818.0	100.0

**Coefficient of Utilization**



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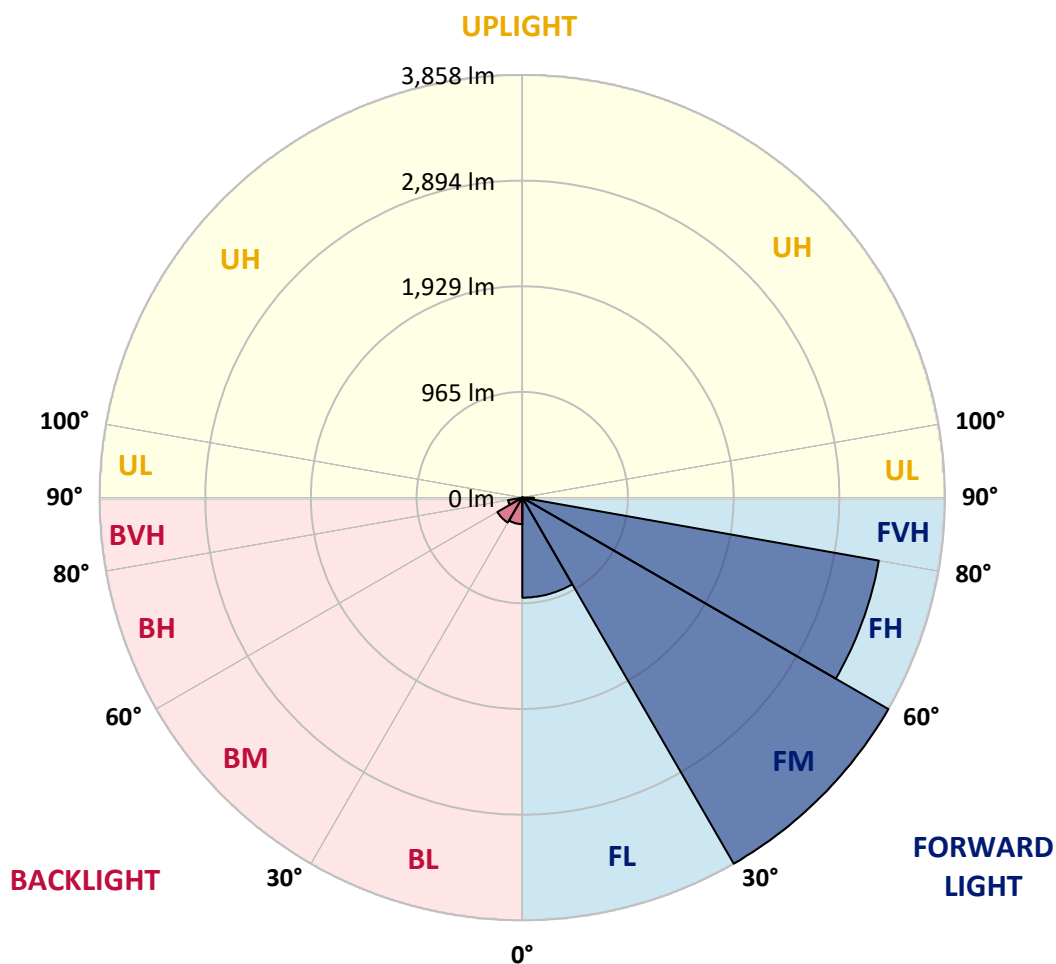
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	912.9	10.4			
FM (30°-60°)	3858.2	43.8			
FH (60°-80°)	3304.1	37.5			G2/5000
FVH (80°-90°)	106.4	1.2			G2/225
BL (0°-30°)	241.6	2.7	B1/500		
BM (30°-60°)	262.4	3.0	B1/1000		
BH (60°-80°)	131.6	1.5	B1/500		G1/500
BVH (80°-90°)	0.8	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6
2.5°	2712.9	2717.1	2701.7	2689.4	2657.5	2623.4	2578.0	2553.8	2512.6	2441.3	2362.3
5°	2776.6	2781.9	2779.5	2776.6	2764.2	2731.2	2673.4	2652.2	2591.5	2475.5	2332.9
7.5°	2635.1	2654.6	2656.9	2679.9	2701.7	2704.7	2682.9	2667.0	2611.0	2474.9	2280.4
10°	2447.8	2460.7	2479.6	2506.1	2558.5	2602.1	2623.4	2621.0	2588.6	2456.6	2219.1
12.5°	2258.6	2265.7	2294.6	2339.9	2404.2	2478.4	2535.0	2546.2	2546.8	2434.8	2167.9
15°	2096.0	2093.0	2115.4	2167.9	2258.0	2351.1	2452.5	2470.2	2498.4	2413.6	2120.1
17.5°	1956.9	1972.2	1975.8	2033.5	2116.6	2237.4	2366.4	2397.7	2454.2	2395.3	2080.7
20°	1870.9	1879.1	1886.8	1919.2	1994.0	2121.3	2285.7	2328.7	2413.0	2378.8	2036.5
22.5°	1845.5	1850.8	1844.4	1854.4	1907.4	2020.6	2197.9	2255.1	2373.5	2363.5	2000.5
25°	1865.0	1870.3	1855.0	1843.2	1861.5	1938.6	2113.1	2182.6	2341.7	2360.6	1973.4
27.5°	1912.1	1922.1	1900.9	1879.7	1869.1	1894.5	2046.5	2127.2	2319.9	2374.7	1961.0
30°	1985.8	1991.7	1975.8	1949.8	1925.7	1900.3	2011.7	2088.9	2314.0	2407.7	1959.9
32.5°	2065.9	2078.3	2069.5	2052.4	2021.1	1961.0	2021.7	2090.1	2328.1	2455.4	1974.6
35°	2164.9	2179.1	2187.3	2183.8	2143.7	2068.9	2085.4	2143.1	2365.9	2543.2	2014.7
37.5°	2262.1	2274.5	2321.1	2337.0	2301.6	2230.9	2209.1	2247.4	2448.9	2658.1	2087.1
40°	2373.5	2390.0	2455.4	2516.1	2499.0	2424.8	2384.7	2416.5	2576.2	2831.4	2224.4
42.5°	2480.2	2509.6	2609.2	2716.5	2732.4	2649.3	2622.8	2633.4	2764.8	3080.6	2415.9
45°	2631.6	2659.3	2787.8	2933.3	3008.1	2943.3	2916.2	2914.5	3023.5	3431.2	2726.5
47.5°	2850.2	2875.0	3026.4	3170.2	3303.4	3312.2	3260.9	3278.6	3348.7	3841.3	3107.1
50°	3118.3	3176.7	3276.3	3425.9	3603.9	3747.7	3763.6	3740.0	3800.1	4316.3	3564.4
52.5°	3507.8	3530.2	3621.6	3744.7	3953.3	4197.3	4386.4	4354.0	4335.1	4768.8	4026.4
55°	3798.3	3828.4	3970.4	4139.5	4445.3	4767.1	5177.2	5188.4	4950.3	5203.7	4478.3
57.5°	3710.5	3756.5	3971.6	4311.6	4983.9	5572.0	5877.2	5884.9	5519.5	5626.2	4988.6
60°	3259.8	3281.6	3589.7	4043.5	5029.9	6444.1	6870.1	6808.2	6098.8	6098.8	5439.4
62.5°	2311.6	2345.8	2595.7	3263.3	4542.6	6747.0	8059.2	7931.4	6896.6	6550.7	5708.1
65°	1477.3	1444.3	1609.8	2060.0	3384.1	6299.7	9094.5	9102.2	7647.3	6731.6	5561.4
67°	1070.1	1057.1	1104.9	1408.3	2294.6	5295.6	9116.3	9520.0	8078.7	6617.3	5092.3
67.5°	978.8	988.8	1023.5	1270.4	2084.8	4818.9	9017.4	9495.2	8175.9	6548.4	4922.6
70°	741.9	724.8	762.5	898.6	1249.8	3040.0	7756.9	8708.6	8055.1	5864.3	3933.3
72.5°	545.6	543.9	596.3	734.8	962.3	1619.3	5823.0	6982.7	6580.8	4465.4	2476.6
75°	368.3	384.8	468.5	614.0	872.1	1050.1	3969.8	5065.8	4568.5	2535.6	1012.3
77.5°	209.8	211.0	301.7	493.2	783.1	845.0	2352.3	3227.3	2418.3	843.2	300.5
80°	90.7	99.6	149.7	358.3	649.4	748.4	1348.8	1773.7	978.2	178.5	97.2
82.5°	33.6	39.5	66.0	220.4	473.8	616.4	814.9	846.8	331.8	63.1	60.7
85°	0.0	1.2	24.2	103.1	246.9	275.2	544.5	502.0	146.7	30.1	39.5
87.5°	0.0	0.0	0.0	10.6	32.4	102.5	169.1	188.6	35.4	10.6	9.4
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°	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6	2337.6
2.5°	2319.9	2281.6	2185.5	2089.5	2018.2	1958.7	1869.1	1820.2	1794.3	1756.0	1758.3
5°	2261.6	2183.8	2014.7	1839.7	1698.2	1560.3	1395.4	1328.8	1272.8	1241.0	1219.8
7.5°	2174.9	2060.0	1809.6	1576.3	1358.8	1117.8	936.9	816.1	734.8	704.7	675.9
10°	2080.1	1927.5	1601.6	1278.1	976.4	727.7	574.5	463.7	424.3	387.7	391.3
12.5°	1992.3	1806.7	1410.7	1008.8	684.1	462.6	360.6	315.3	302.3	298.2	298.2
15°	1920.4	1691.2	1205.6	758.4	469.0	332.3	288.7	276.4	271.6	270.5	270.5
17.5°	1843.8	1581.6	1020.6	560.4	341.2	278.1	263.4	255.1	253.4	252.2	252.2
20°	1775.4	1471.4	845.0	417.2	275.8	250.4	241.0	235.7	233.9	232.8	233.3
22.5°	1710.6	1373.6	680.0	315.3	242.8	228.0	218.6	213.3	209.8	206.8	207.4
25°	1652.9	1279.3	546.8	258.1	218.6	205.6	196.2	188.6	180.9	177.4	176.8
27.5°	1612.2	1196.8	426.0	221.0	196.8	182.7	170.9	161.5	151.4	146.1	145.0
30°	1578.6	1113.1	337.1	195.0	175.0	161.5	146.7	133.2	122.6	117.3	114.9
32.5°	1556.8	1033.6	265.8	173.8	156.7	140.2	123.7	110.2	98.4	93.1	91.9
35°	1553.3	967.0	217.4	156.2	140.2	122.6	105.5	90.7	80.7	75.4	74.2
37.5°	1578.6	915.7	182.1	142.0	126.7	107.2	88.4	74.8	66.0	61.9	61.3
40°	1646.4	883.3	157.9	130.2	114.3	93.1	75.4	63.6	54.8	50.7	50.7
42.5°	1775.4	884.5	142.0	119.0	101.9	79.5	64.2	53.0	45.4	41.8	40.7
45°	1976.9	924.5	128.5	107.8	90.2	68.9	54.8	43.6	35.9	33.0	33.0
47.5°	2246.8	1004.1	116.7	96.6	79.5	58.9	46.6	35.4	28.9	25.9	25.9
50°	2599.8	1132.0	106.7	87.2	70.7	50.7	37.7	28.9	22.4	20.0	19.4
52.5°	2968.7	1289.9	94.9	79.0	60.7	43.0	30.6	22.4	17.1	15.3	14.7
55°	3375.8	1444.3	83.7	70.7	49.5	35.9	24.2	17.7	12.4	10.6	10.6
57.5°	3786.5	1595.7	70.1	58.9	38.9	26.5	18.9	13.0	8.2	6.5	6.5
60°	4134.2	1644.6	59.5	47.7	29.5	18.9	13.6	8.2	4.7	2.9	2.9
62.5°	4181.9	1479.6	50.1	36.5	21.2	13.0	7.1	4.7	1.8	1.2	1.2
65°	3922.7	1202.1	41.8	27.7	14.1	6.5	2.9	1.8	0.6	0.0	0.0
67°	3514.9	974.6	34.2	20.6	10.0	4.1	1.8	0.6	0.0	0.0	0.0
67.5°	3410.6	929.3	33.0	19.4	8.8	3.5	1.2	0.6	0.0	0.0	0.0
70°	2676.4	695.9	23.6	11.8	5.3	2.4	0.0	0.0	0.0	0.0	0.0
72.5°	1663.5	393.6	17.1	7.1	3.5	1.2	0.0	0.0	0.0	0.0	0.0
75°	628.7	137.9	11.8	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	195.6	52.4	7.1	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	66.0	20.0	4.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.7	8.2	2.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.3	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	1.2	0.6	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)