

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: P451387

Luminaire Tested: **GALN-SA2B-730-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451387  
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-730-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 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: 8620 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

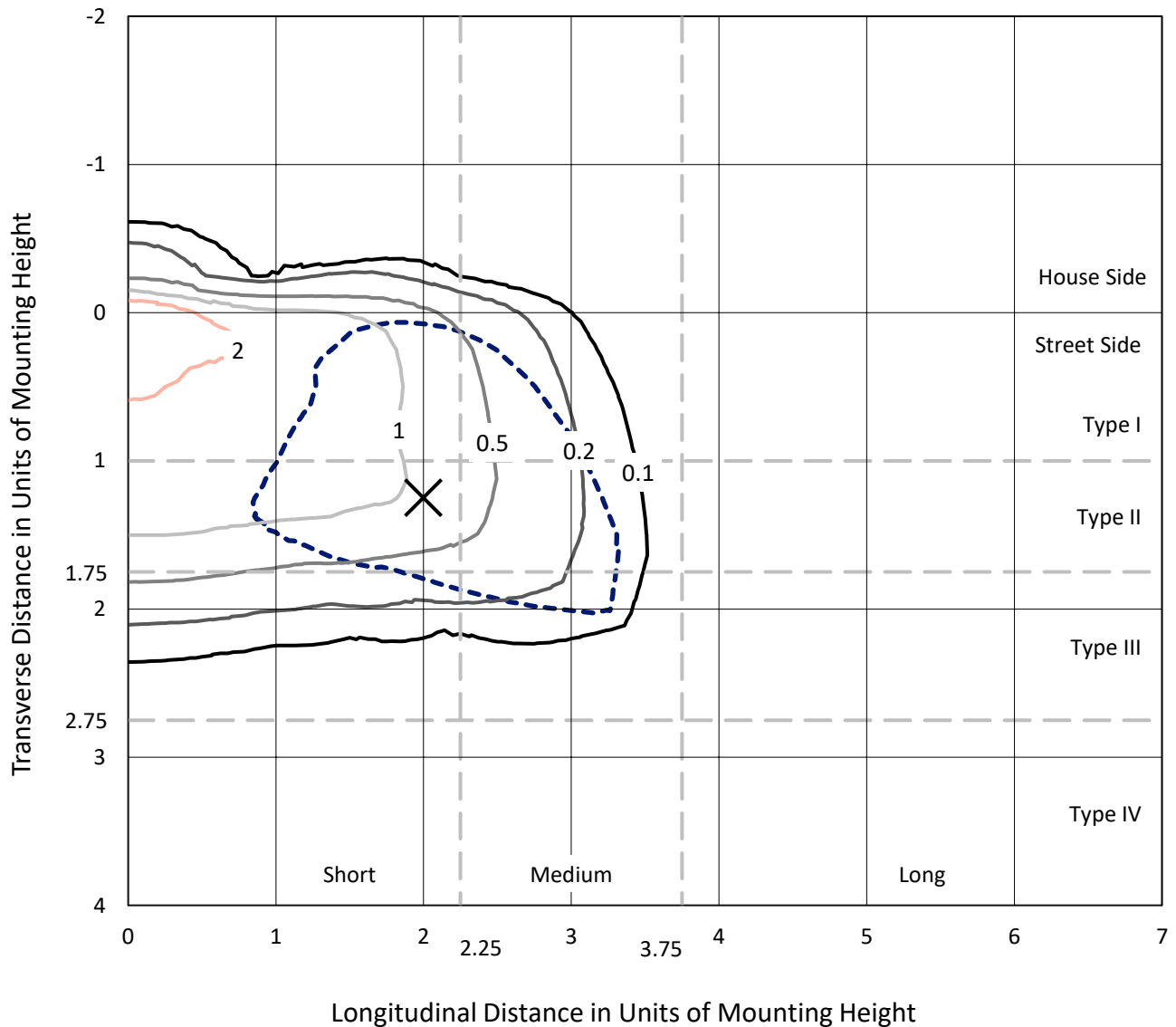
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

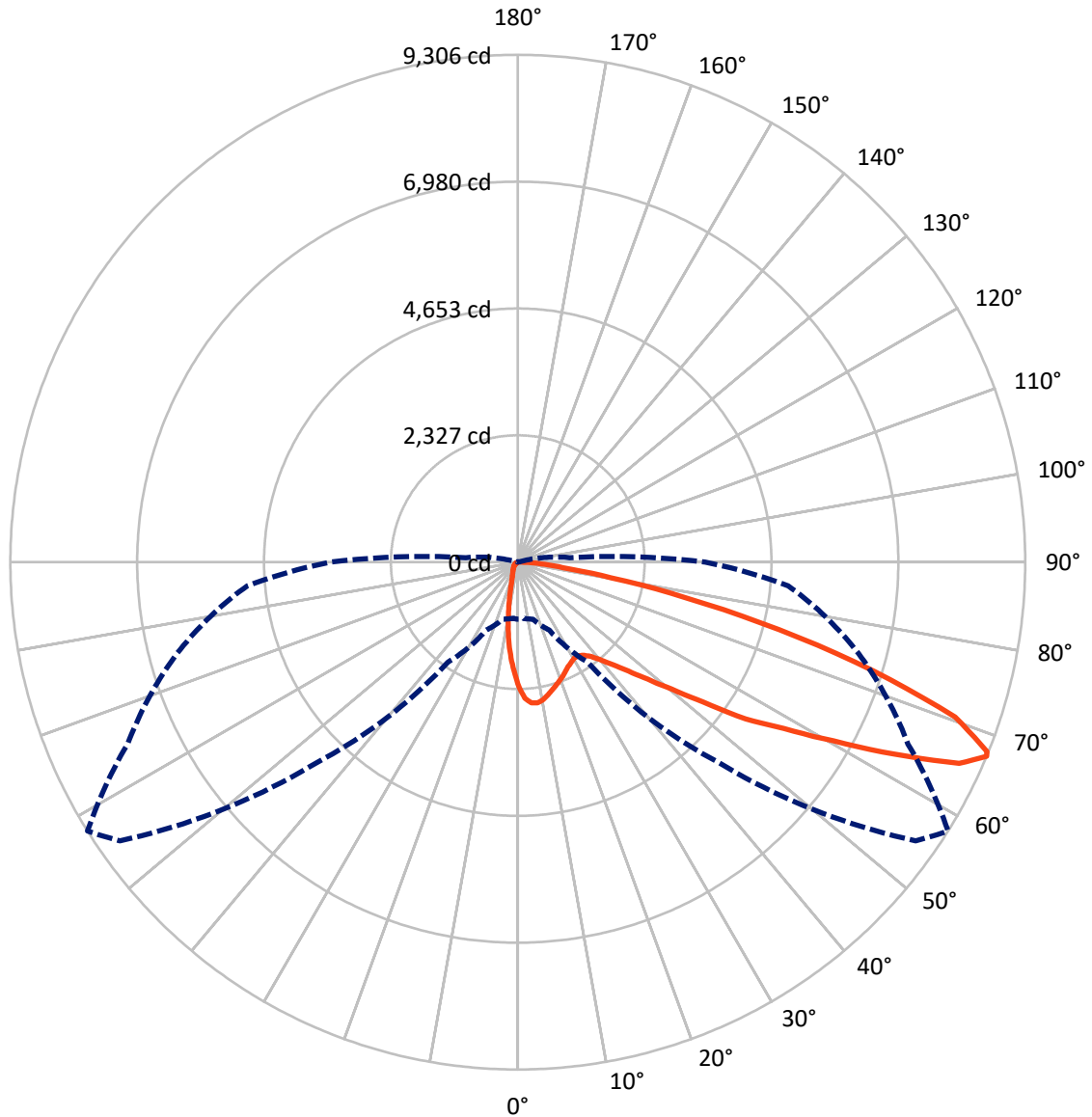
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	622.1	0.0	622.1
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	7997.9	0.0	7997.9
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	8620.0	0.0	8620.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.4	2.2
10°-20°	400.5	4.6
20°-30°	542.7	6.3
30°-40°	752.7	8.7
40°-50°	1200.4	13.9
50°-60°	2075.0	24.1
60°-70°	2370.3	27.5
70°-80°	988.2	11.5
80°-90°	104.8	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°	8620.0	100.0
0°-180°	8620.0	100.0



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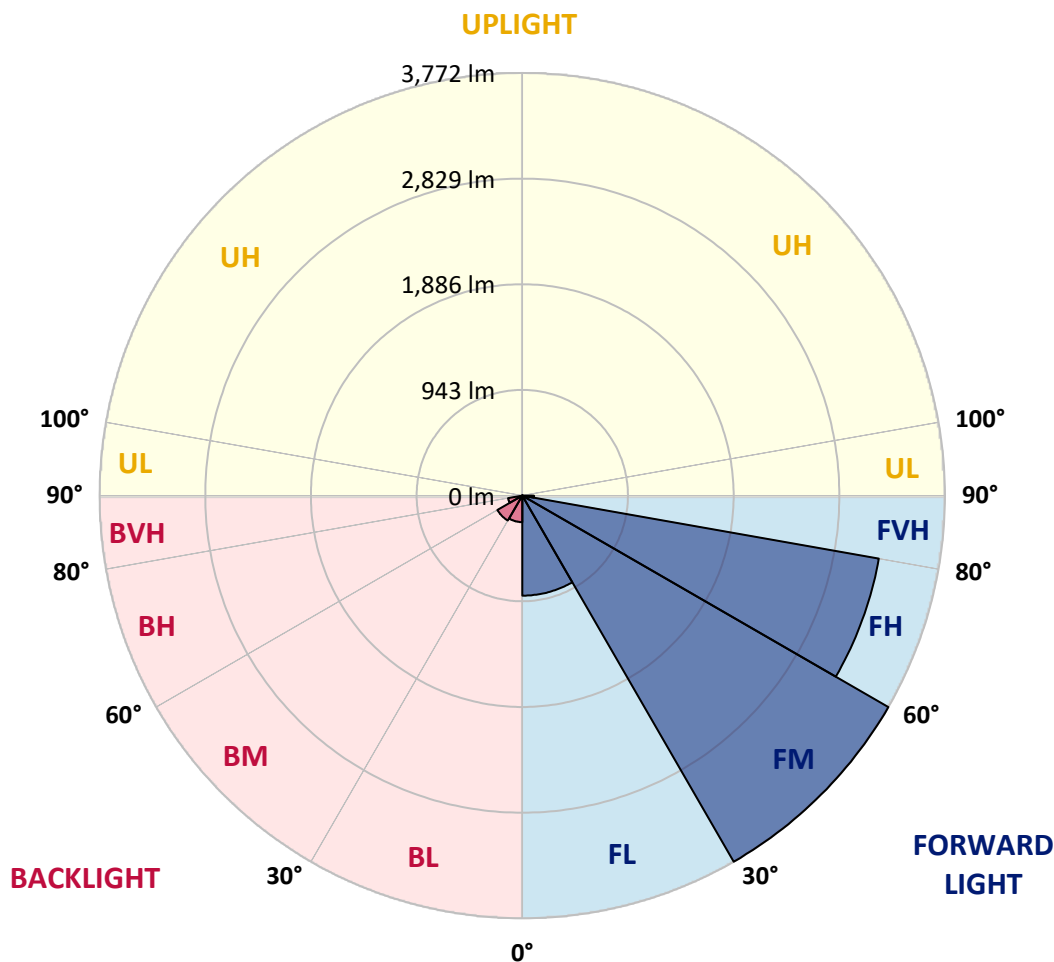
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	892.4	10.4			
FM (30°-60°)	3771.6	43.8			
FH (60°-80°)	3229.9	37.5			G2/5000
FVH (80°-90°)	104.0	1.2			G2/225
BL (0°-30°)	236.2	2.7	B1/500		
BM (30°-60°)	256.5	3.0	B1/1000		
BH (60°-80°)	128.6	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°	2285.1	2285.1	2285.1	2285.1	2285.1	2285.1	2285.1	2285.1	2285.1	2285.1	2285.1
2.5°	2652.0	2656.0	2641.1	2629.0	2597.9	2564.5	2520.1	2496.5	2456.2	2386.5	2309.3
5°	2714.2	2719.4	2717.1	2714.2	2702.1	2669.9	2613.4	2592.7	2533.3	2419.9	2280.5
7.5°	2576.0	2595.0	2597.3	2619.8	2641.1	2643.9	2622.6	2607.1	2552.4	2419.3	2229.2
10°	2392.8	2405.5	2423.9	2449.8	2501.1	2543.7	2564.5	2562.1	2530.5	2401.4	2169.3
12.5°	2207.9	2214.8	2243.0	2287.4	2350.2	2422.8	2478.1	2489.0	2489.6	2380.1	2119.2
15°	2048.9	2046.0	2067.9	2119.2	2207.3	2298.3	2397.4	2414.7	2442.3	2359.4	2072.5
17.5°	1913.0	1927.9	1931.4	1987.9	2069.1	2187.2	2313.3	2343.8	2399.1	2341.5	2033.9
20°	1828.9	1836.9	1844.4	1876.1	1949.3	2073.7	2234.4	2276.4	2358.8	2325.4	1990.7
22.5°	1804.1	1809.3	1803.0	1812.7	1864.6	1975.2	2148.6	2204.4	2320.2	2310.4	1955.6
25°	1823.1	1828.3	1813.3	1801.8	1819.7	1895.1	2065.6	2133.6	2289.1	2307.5	1929.1
27.5°	1869.2	1879.0	1858.2	1837.5	1827.1	1851.9	2000.5	2079.4	2267.8	2321.4	1917.0
30°	1941.2	1947.0	1931.4	1906.1	1882.4	1857.7	1966.5	2042.0	2262.0	2353.6	1915.9
32.5°	2019.5	2031.6	2023.0	2006.3	1975.8	1917.0	1976.3	2043.2	2275.9	2400.3	1930.3
35°	2116.3	2130.1	2138.2	2134.7	2095.6	2022.4	2038.5	2095.0	2312.7	2486.1	1969.4
37.5°	2211.4	2223.4	2269.0	2284.5	2249.9	2180.8	2159.5	2197.0	2394.0	2598.4	2040.3
40°	2320.2	2336.3	2400.3	2459.6	2442.9	2370.3	2331.2	2362.3	2518.4	2767.8	2174.5
42.5°	2424.5	2453.3	2550.6	2655.5	2671.0	2589.8	2563.9	2574.2	2702.7	3011.4	2361.7
45°	2572.5	2599.6	2725.2	2867.4	2940.6	2877.2	2850.7	2849.0	2955.6	3354.2	2665.3
47.5°	2786.2	2810.4	2958.5	3099.0	3229.2	3237.8	3187.7	3205.0	3273.5	3755.1	3037.4
50°	3048.3	3105.3	3202.7	3349.0	3523.0	3663.5	3679.1	3656.0	3714.8	4219.4	3484.4
52.5°	3429.1	3451.0	3540.2	3660.6	3864.5	4103.0	4287.9	4256.2	4237.8	4661.8	3936.0
55°	3713.0	3742.4	3881.2	4046.6	4345.5	4660.0	5060.9	5071.9	4839.2	5086.9	4377.8
57.5°	3627.2	3672.1	3882.4	4214.8	4872.0	5446.9	5745.3	5752.7	5395.6	5499.9	4876.6
60°	3186.6	3207.9	3509.1	3952.7	4916.9	6299.4	6715.9	6655.4	5961.8	5961.8	5317.3
62.5°	2259.7	2293.1	2537.4	3190.0	4440.6	6595.5	7878.3	7753.3	6741.8	6403.6	5579.9
65°	1444.1	1411.8	1573.7	2013.8	3308.1	6158.3	8890.3	8897.8	7475.6	6580.5	5436.5
67°	1046.1	1033.4	1080.0	1376.7	2243.0	5176.7	8911.7	9306.2	7897.3	6468.7	4978.0
67.5°	956.8	966.6	1000.6	1241.9	2038.0	4710.7	8814.9	9282.0	7992.3	6401.3	4812.1
70°	725.2	708.5	745.4	878.4	1221.7	2971.7	7582.8	8513.0	7874.2	5732.6	3845.0
72.5°	533.4	531.7	582.9	718.3	940.6	1582.9	5692.3	6825.9	6433.0	4365.1	2421.0
75°	360.0	376.1	457.9	600.2	852.5	1026.5	3880.7	4952.1	4465.9	2478.6	989.6
77.5°	205.1	206.2	294.9	482.1	765.5	826.0	2299.5	3154.9	2364.0	824.3	293.8
80°	88.7	97.3	146.3	350.2	634.8	731.5	1318.5	1733.8	956.2	174.5	95.0
82.5°	32.8	38.6	64.5	215.4	463.1	602.5	796.6	827.7	324.3	61.6	59.3
85°	0.0	1.2	23.6	100.8	241.4	269.0	532.2	490.8	143.4	29.4	38.6
87.5°	0.0	0.0	0.0	10.4	31.7	100.2	165.3	184.3	34.6	10.4	9.2
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°	2285.1	2285.1	2285.1	2285.1	2285.1	2285.1	2285.1	2285.1	2285.1	2285.1	2285.1
2.5°	2267.8	2230.4	2136.5	2042.6	1972.9	1914.7	1827.1	1779.3	1754.0	1716.5	1718.9
5°	2210.8	2134.7	1969.4	1798.3	1660.1	1525.3	1364.0	1298.9	1244.2	1213.1	1192.4
7.5°	2126.1	2013.8	1769.0	1540.9	1328.3	1092.7	915.9	797.8	718.3	688.9	660.7
10°	2033.4	1884.2	1565.6	1249.4	954.5	711.4	561.6	453.3	414.7	379.0	382.5
12.5°	1947.5	1766.1	1379.0	986.2	668.8	452.2	352.5	308.2	295.5	291.5	291.5
15°	1877.3	1653.2	1178.5	741.3	458.5	324.9	282.3	270.2	265.5	264.4	264.4
17.5°	1802.4	1546.0	997.7	547.8	333.5	271.9	257.5	249.4	247.7	246.5	246.5
20°	1735.6	1438.3	826.0	407.8	269.6	244.8	235.6	230.4	228.7	227.5	228.1
22.5°	1672.2	1342.7	664.7	308.2	237.3	222.9	213.7	208.5	205.1	202.2	202.8
25°	1615.7	1250.5	534.5	252.3	213.7	201.0	191.8	184.3	176.8	173.4	172.8
27.5°	1576.0	1169.9	416.5	216.0	192.4	178.6	167.0	157.8	148.0	142.9	141.7
30°	1543.2	1088.1	329.5	190.7	171.1	157.8	143.4	130.2	119.8	114.6	112.3
32.5°	1521.9	1010.3	259.8	169.9	153.2	137.1	121.0	107.7	96.2	91.0	89.9
35°	1518.4	945.3	212.6	152.6	137.1	119.8	103.1	88.7	78.9	73.7	72.6
37.5°	1543.2	895.1	178.0	138.8	123.8	104.8	86.4	73.2	64.5	60.5	59.9
40°	1609.4	863.5	154.4	127.3	111.7	91.0	73.7	62.2	53.6	49.5	49.5
42.5°	1735.6	864.6	138.8	116.4	99.7	77.8	62.8	51.8	44.4	40.9	39.7
45°	1932.6	903.8	125.6	105.4	88.1	67.4	53.6	42.6	35.1	32.3	32.3
47.5°	2196.4	981.5	114.1	94.5	77.8	57.6	45.5	34.6	28.2	25.3	25.3
50°	2541.4	1106.5	104.3	85.3	69.1	49.5	36.9	28.2	21.9	19.6	19.0
52.5°	2902.0	1260.9	92.7	77.2	59.3	42.0	30.0	21.9	16.7	15.0	14.4
55°	3300.0	1411.8	81.8	69.1	48.4	35.1	23.6	17.3	12.1	10.4	10.4
57.5°	3701.5	1559.9	68.5	57.6	38.0	25.9	18.4	12.7	8.1	6.3	6.3
60°	4041.4	1607.7	58.2	46.7	28.8	18.4	13.2	8.1	4.6	2.9	2.9
62.5°	4088.0	1446.4	49.0	35.7	20.7	12.7	6.9	4.6	1.7	1.2	1.2
65°	3834.6	1175.1	40.9	27.1	13.8	6.3	2.9	1.7	0.6	0.0	0.0
67°	3436.0	952.7	33.4	20.2	9.8	4.0	1.7	0.6	0.0	0.0	0.0
67.5°	3334.0	908.4	32.3	19.0	8.6	3.5	1.2	0.6	0.0	0.0	0.0
70°	2616.3	680.3	23.0	11.5	5.2	2.3	0.0	0.0	0.0	0.0	0.0
72.5°	1626.1	384.8	16.7	6.9	3.5	1.2	0.0	0.0	0.0	0.0	0.0
75°	614.6	134.8	11.5	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	191.2	51.3	6.9	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	64.5	19.6	4.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.7	8.1	2.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.8	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	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)