

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: P323627

Luminaire Tested: **GLEON-SA3A-827-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323627  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3A-827-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 615mA 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: 8935 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

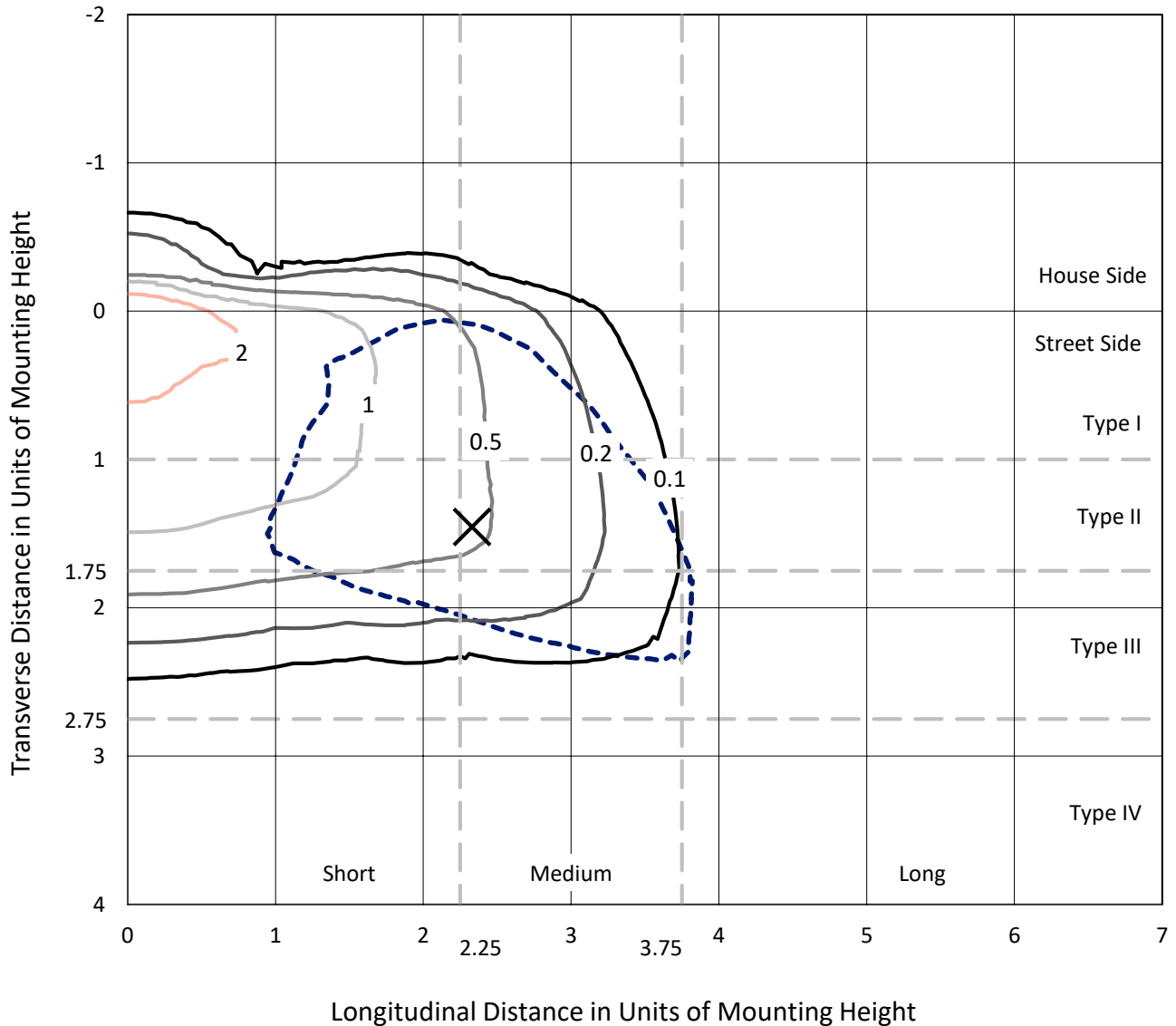
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

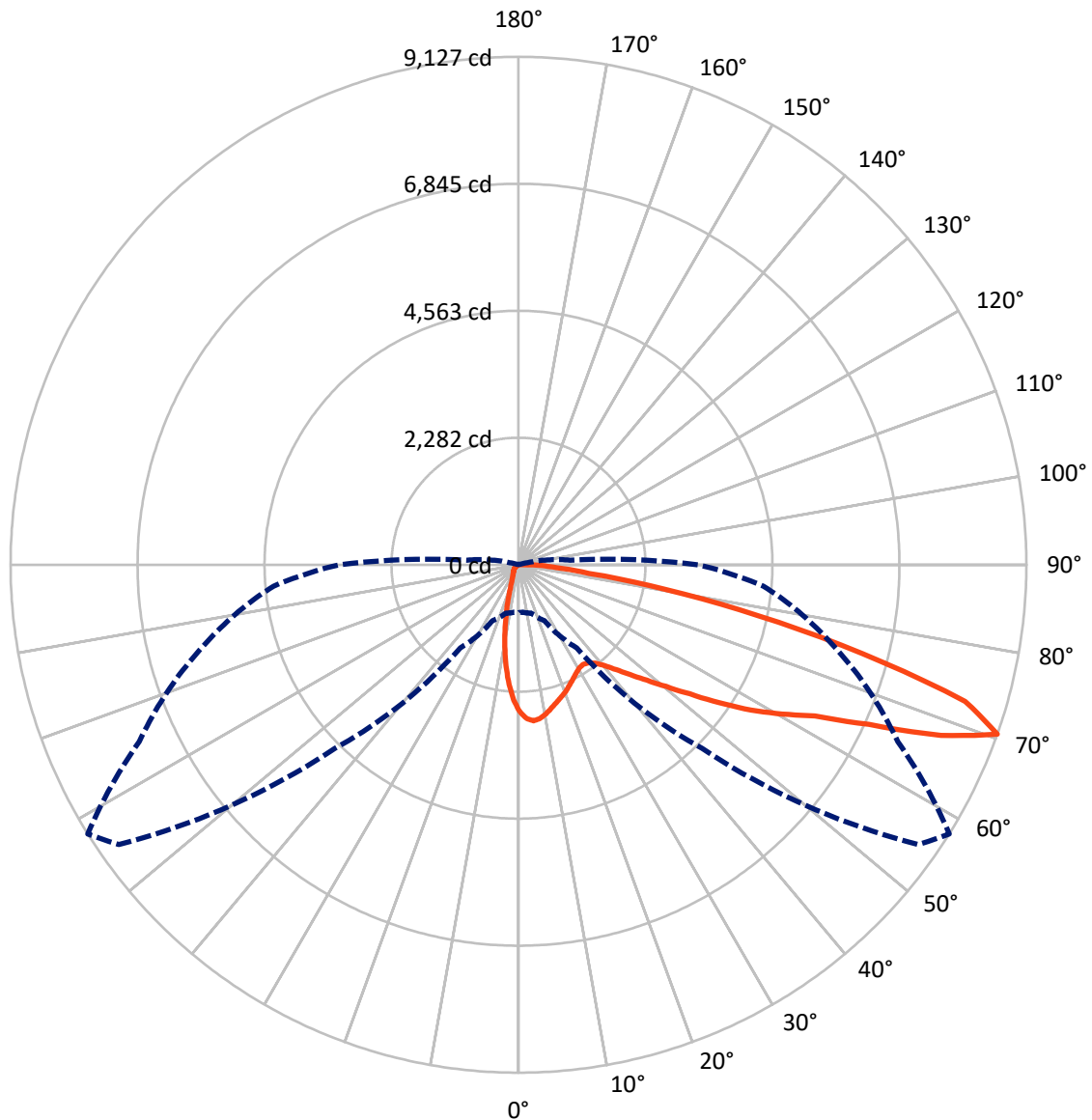
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	764.6	0.0	764.6
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	8170.4	0.0	8170.4
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	8935.0	0.0	8935.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.8	2.4
10°-20°	453.0	5.1
20°-30°	595.5	6.7
30°-40°	788.7	8.8
40°-50°	1178.8	13.2
50°-60°	1888.5	21.1
60°-70°	2380.4	26.6
70°-80°	1284.0	14.4
80°-90°	150.3	1.7
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°	8935.0	100.0
0°-180°	8935.0	100.0

**Coefficient of Utilization**

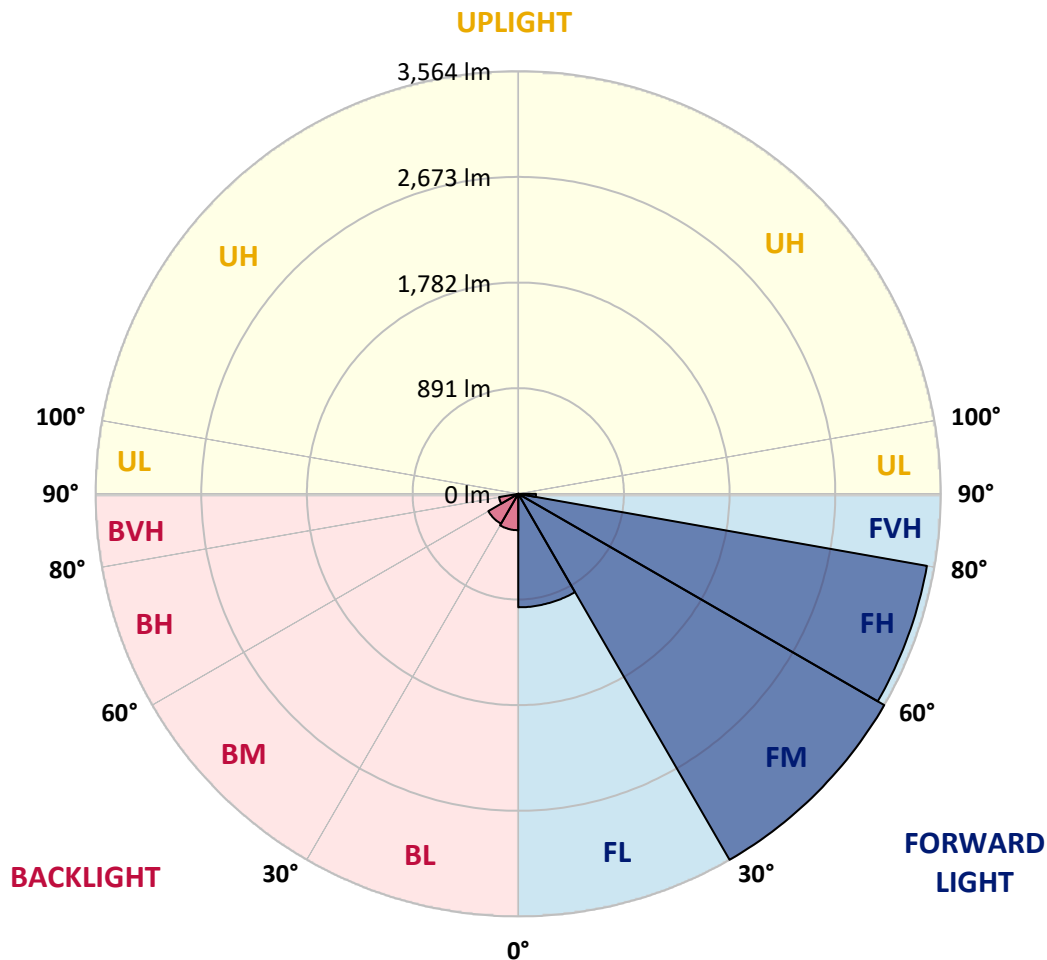


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	957.1	10.7			
FM (30°-60°)	3564.3	39.9			
FH (60°-80°)	3499.9	39.2			G2/5000
FVH (80°-90°)	149.0	1.7			G2/225
BL (0°-30°)	307.2	3.4	B1/500		
BM (30°-60°)	291.7	3.3	B1/1000		
BH (60°-80°)	164.4	1.8	B1/500		G1/500
BVH (80°-90°)	1.3	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2639.4	2639.4	2639.4	2639.4	2639.4	2639.4	2639.4	2639.4	2639.4	2639.4	2639.4
2.5°	2858.2	2851.1	2848.5	2844.1	2827.0	2810.3	2777.2	2767.9	2747.1	2697.7	2645.3
5°	2860.4	2860.0	2867.8	2866.0	2860.0	2852.2	2828.5	2816.2	2780.9	2710.3	2614.5
7.5°	2722.6	2729.6	2747.1	2761.2	2777.6	2798.7	2801.7	2789.8	2760.8	2684.7	2557.6
10°	2537.6	2548.7	2573.2	2601.1	2643.8	2686.2	2724.1	2722.6	2712.5	2637.5	2489.3
12.5°	2352.2	2365.2	2393.4	2434.6	2495.2	2564.3	2631.9	2641.2	2657.9	2595.1	2426.1
15°	2189.8	2201.0	2228.8	2279.3	2354.4	2447.3	2546.5	2563.6	2606.7	2562.1	2373.3
17.5°	2052.0	2059.0	2079.5	2135.6	2222.5	2335.1	2464.0	2497.4	2561.7	2536.1	2327.6
20°	1955.7	1956.9	1970.2	2009.6	2096.5	2222.5	2378.5	2426.5	2514.2	2513.8	2280.5
22.5°	1908.2	1904.5	1907.1	1929.7	1993.6	2115.1	2293.1	2349.9	2471.4	2494.8	2232.5
25°	1899.3	1896.3	1888.9	1891.8	1930.5	2021.1	2206.9	2272.7	2433.9	2483.3	2190.9
27.5°	1927.1	1930.1	1917.5	1904.1	1907.1	1960.2	2130.4	2206.5	2403.4	2483.3	2161.6
30°	1983.2	1984.7	1975.4	1958.0	1934.6	1943.1	2077.2	2153.4	2388.2	2500.4	2143.0
32.5°	2045.3	2053.5	2052.3	2038.2	2004.8	1970.2	2064.6	2134.1	2387.1	2538.3	2141.1
35°	2122.2	2131.5	2147.1	2144.1	2109.2	2052.3	2107.7	2162.3	2409.0	2600.7	2161.2
37.5°	2203.9	2218.0	2251.5	2267.5	2244.8	2180.5	2204.3	2243.3	2467.7	2701.8	2212.1
40°	2283.1	2299.0	2360.0	2422.8	2405.7	2339.5	2350.7	2381.9	2572.1	2847.0	2308.7
42.5°	2360.7	2384.5	2474.0	2577.3	2597.7	2545.0	2550.9	2575.8	2727.0	3046.9	2466.6
45°	2453.6	2480.3	2613.0	2740.4	2795.0	2772.0	2797.3	2813.6	2929.5	3311.1	2679.5
47.5°	2589.9	2620.8	2783.5	2928.8	3024.6	3039.5	3090.4	3101.2	3185.5	3618.7	2957.0
50°	2856.0	2864.5	3011.6	3143.5	3281.7	3370.9	3428.9	3437.0	3495.4	3954.9	3303.7
52.5°	3190.7	3196.3	3279.5	3367.9	3525.1	3707.1	3842.7	3854.3	3866.5	4282.6	3645.8
55°	3523.2	3522.5	3577.5	3629.5	3809.3	4073.8	4368.1	4375.1	4287.1	4593.6	3907.4
57.5°	3730.9	3751.0	3834.6	3901.4	4152.6	4491.8	4900.1	4926.1	4728.8	4824.0	4166.0
60°	3664.8	3674.4	3859.8	4107.3	4580.2	5085.9	5438.5	5445.2	5061.0	5053.9	4492.9
62.5°	3122.3	3127.5	3418.8	3928.9	4796.8	5856.4	6087.9	5979.0	5442.9	5373.1	4884.1
65°	2140.0	2173.8	2417.2	3047.7	4398.9	6339.8	7093.3	6913.1	6025.1	5833.0	5237.8
67.5°	1260.2	1253.2	1373.6	1838.0	3230.8	6018.8	8365.0	8185.9	6819.1	6141.0	5134.2
70°	860.8	856.0	902.1	1112.7	1823.8	4669.0	8765.2	9126.7	7520.2	5933.7	4418.6
72.5°	614.5	617.1	685.1	864.6	1145.1	2720.4	7537.6	8393.3	7300.6	5172.8	3358.6
75°	417.2	424.3	521.6	709.3	1003.9	1384.0	5348.9	6380.3	5944.9	3759.5	1930.5
77.5°	224.4	232.2	347.0	571.4	907.7	961.5	3440.7	4391.1	3734.3	1690.1	559.5
80°	93.6	98.1	162.4	415.4	784.3	844.5	2024.5	2662.8	1591.3	333.3	124.8
82.5°	40.5	42.7	67.6	247.8	586.3	713.0	1071.9	1281.0	482.2	73.2	62.8
85°	7.8	8.2	27.9	131.2	374.1	402.4	694.8	681.0	216.6	31.6	45.7
87.5°	0.0	0.0	6.7	41.2	110.0	219.2	423.9	418.7	73.6	15.2	17.1
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°	2639.4	2639.4	2639.4	2639.4	2639.4	2639.4	2639.4	2639.4	2639.4	2639.4	2639.4
2.5°	2618.6	2592.9	2539.0	2472.5	2421.6	2365.5	2321.0	2264.5	2240.0	2241.1	2227.7
5°	2559.8	2507.1	2387.8	2237.4	2121.4	2001.8	1898.9	1796.4	1735.8	1716.1	1697.5
7.5°	2475.9	2392.3	2202.1	1970.2	1774.1	1582.4	1415.5	1268.8	1175.9	1130.6	1113.9
10°	2381.1	2263.7	1988.4	1683.0	1402.9	1143.6	927.3	739.3	664.3	613.4	600.4
12.5°	2297.9	2138.9	1779.6	1388.4	1055.9	743.1	536.9	419.8	368.9	348.9	345.5
15°	2219.5	2022.2	1578.6	1121.7	731.2	457.4	341.4	301.7	289.8	286.5	286.5
17.5°	2145.6	1911.2	1382.1	859.0	483.7	320.6	282.7	273.8	270.1	269.7	270.1
20°	2068.3	1800.1	1188.9	629.4	337.7	271.6	261.2	256.4	255.2	255.2	255.2
22.5°	1994.4	1689.0	1000.9	449.6	270.8	247.8	242.6	239.3	238.2	237.8	237.0
25°	1923.4	1583.5	817.4	317.7	237.8	227.0	222.5	218.1	214.7	212.9	211.8
27.5°	1865.1	1489.5	646.5	254.9	214.7	205.5	199.9	193.2	185.0	181.3	179.8
30°	1818.6	1403.6	498.2	215.1	193.2	183.9	175.4	163.8	152.0	145.6	145.3
32.5°	1782.2	1319.3	378.2	190.2	173.9	162.4	150.1	135.6	121.9	114.8	114.4
35°	1764.4	1245.0	289.1	172.0	156.8	142.3	127.1	111.1	97.7	91.0	90.3
37.5°	1776.3	1182.2	225.5	156.8	142.3	125.6	107.7	91.0	79.1	73.2	72.8
40°	1819.8	1142.1	183.2	143.8	130.0	109.6	90.3	74.7	64.6	59.8	59.4
42.5°	1912.3	1127.2	156.4	133.0	118.1	94.7	75.0	61.7	52.4	49.0	48.3
45°	2066.8	1149.1	138.2	122.6	105.9	80.6	62.0	50.5	42.4	39.8	39.4
47.5°	2272.7	1206.7	125.2	112.6	94.7	68.0	51.6	40.9	34.6	32.0	31.6
50°	2537.9	1298.1	114.4	102.5	84.3	57.6	42.7	32.3	26.8	24.9	24.9
52.5°	2826.6	1407.0	104.8	93.3	73.9	47.9	34.6	24.9	21.2	18.9	18.9
55°	3065.1	1502.1	94.4	86.2	61.3	39.8	26.4	18.9	15.6	14.5	14.5
57.5°	3303.3	1603.5	82.5	73.9	49.0	32.3	20.1	14.1	11.5	10.8	10.8
60°	3612.0	1727.6	71.0	60.2	38.6	24.5	14.9	10.0	8.5	8.2	8.2
62.5°	3951.6	1800.4	60.6	48.3	30.1	18.2	10.8	6.7	6.3	6.3	5.9
65°	4159.3	1697.5	50.9	38.6	23.4	13.7	7.1	4.8	5.6	5.2	4.5
67.5°	3894.4	1329.0	41.6	30.1	18.2	10.4	4.5	3.3	5.9	4.8	3.7
70°	3224.5	930.3	32.3	21.2	14.5	8.9	3.0	2.2	6.3	4.8	3.0
72.5°	2413.1	622.7	25.6	14.1	10.8	7.8	2.6	1.1	5.6	4.1	2.6
75°	1318.6	250.8	20.4	8.9	6.7	5.6	1.9	0.7	3.7	3.0	1.9
77.5°	347.0	66.1	14.9	5.9	3.7	2.2	1.1	0.4	1.9	1.5	0.7
80°	88.4	25.6	9.7	4.1	2.6	1.1	0.0	0.0	0.4	0.0	0.0
82.5°	47.2	10.8	5.9	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.7	7.1	3.3	1.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	2.2	1.1	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)