

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: P323336

Luminaire Tested: **GLEON-SA2D-827-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323336  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2D-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9666 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

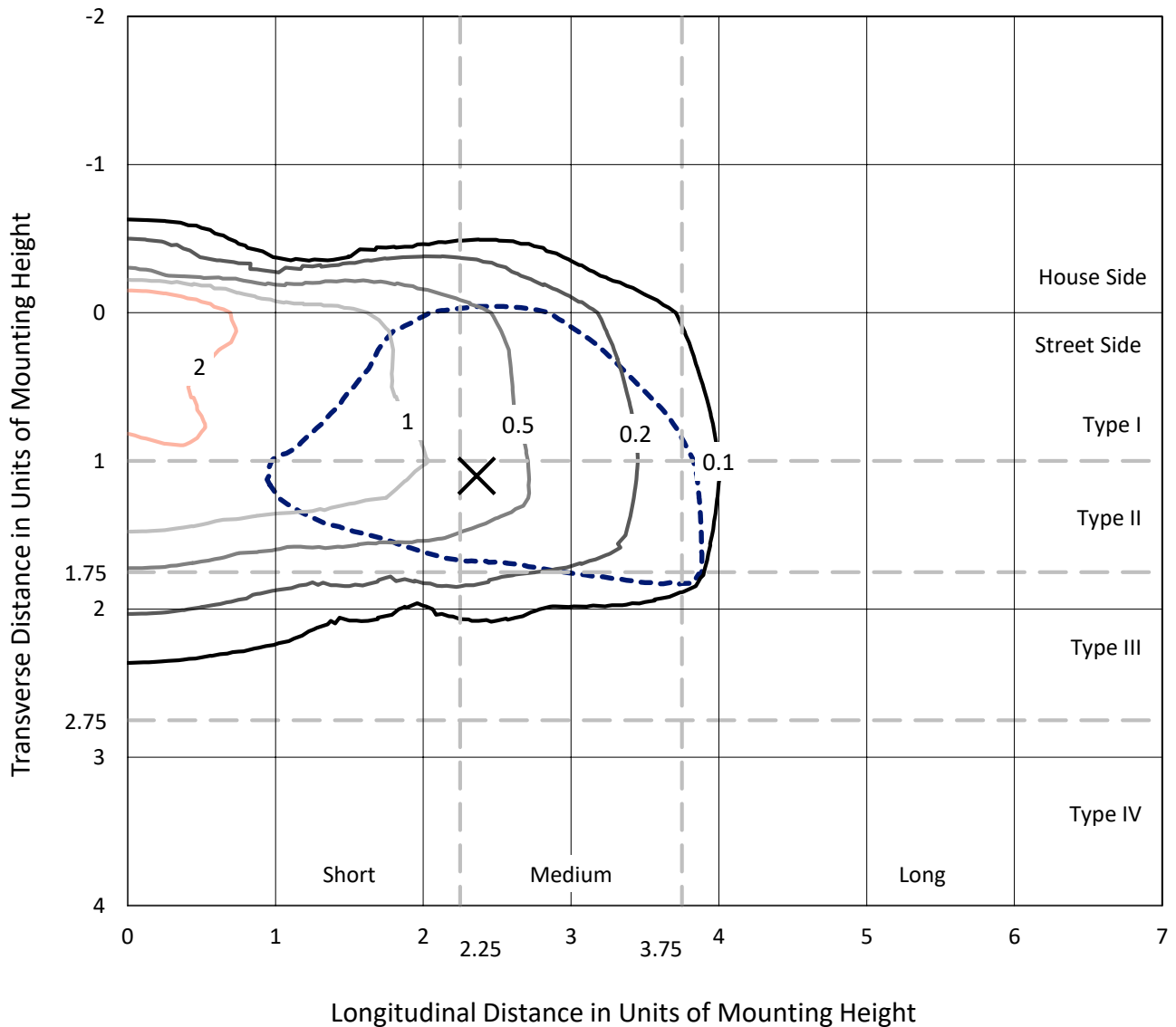
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

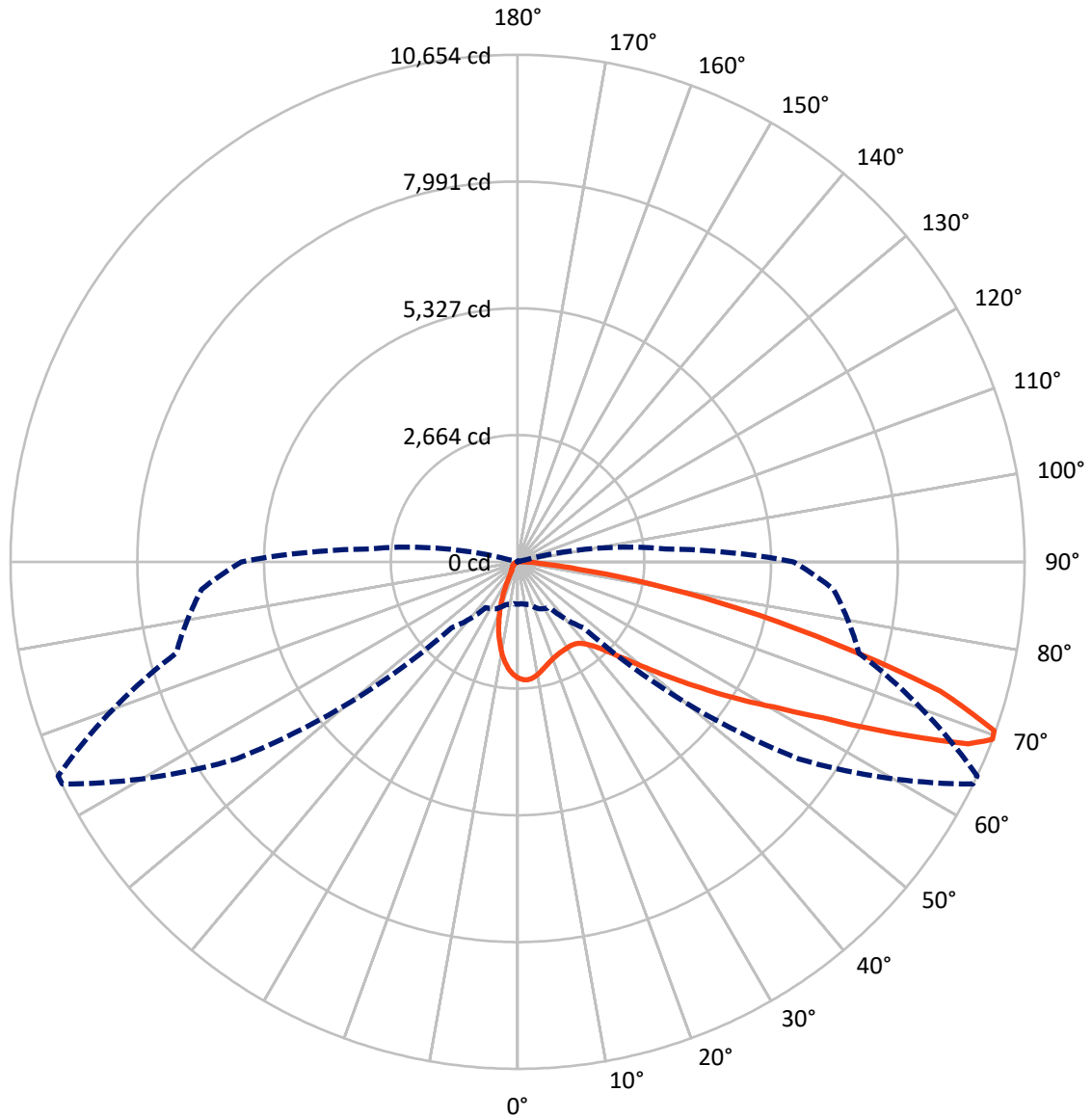
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1139.4	0.0	1139.4
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	8526.6	0.0	8526.6
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	9666.0	0.0	9666.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.3	2.1
10°-20°	447.1	4.6
20°-30°	619.3	6.4
30°-40°	863.5	8.9
40°-50°	1342.1	13.9
50°-60°	2154.6	22.3
60°-70°	2437.2	25.2
70°-80°	1431.4	14.8
80°-90°	166.5	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°	9666.0	100.0
0°-180°	9666.0	100.0

**Coefficient of Utilization**

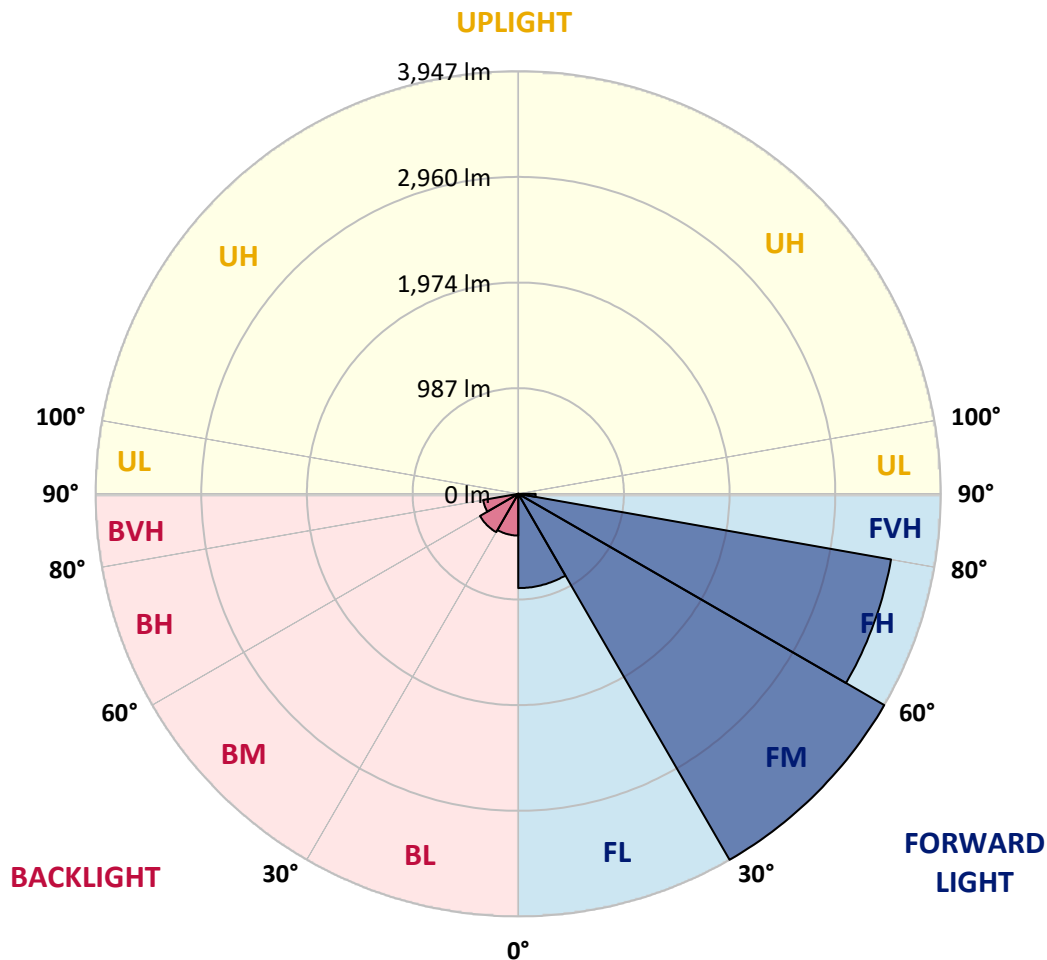


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	880.8	9.1			
FM (30°-60°)	3947.3	40.8			
FH (60°-80°)	3535.7	36.6			G2/5000
FVH (80°-90°)	162.8	1.7			G2/225
BL (0°-30°)	389.9	4.0	B1/500		
BM (30°-60°)	412.9	4.3	B1/1000		
BH (60°-80°)	332.9	3.4	B1/500		G1/500
BVH (80°-90°)	3.7	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°	64°	65°	75°	85°
0°	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6
2.5°	2464.3	2458.2	2463.1	2473.7	2479.0	2479.0	2483.1	2478.2	2479.8	2468.0	2450.8
5°	2310.1	2300.7	2314.2	2344.0	2380.9	2412.3	2459.0	2483.5	2486.0	2486.4	2466.3
7.5°	2144.0	2135.4	2155.5	2190.7	2238.1	2296.6	2378.0	2449.2	2453.2	2491.7	2477.0
10°	2009.1	2002.9	2026.2	2063.9	2119.5	2184.9	2284.7	2383.7	2395.6	2480.7	2475.3
12.5°	1901.9	1897.0	1919.1	1962.4	2019.3	2091.7	2196.0	2310.9	2326.9	2455.7	2467.2
15°	1823.8	1823.0	1841.4	1883.1	1946.1	2013.6	2120.3	2243.4	2261.8	2428.7	2465.9
17.5°	1782.9	1784.1	1797.6	1833.2	1887.2	1954.3	2056.5	2186.6	2206.6	2404.6	2472.1
20°	1778.8	1780.0	1787.4	1807.4	1851.2	1910.5	2004.6	2138.7	2159.6	2386.6	2481.9
22.5°	1814.8	1814.0	1816.0	1814.0	1838.5	1883.5	1970.2	2101.9	2126.0	2374.7	2489.7
25°	1883.9	1882.7	1881.9	1866.7	1850.4	1874.5	1955.9	2081.0	2104.0	2366.1	2494.2
27.5°	1980.0	1979.2	1978.0	1953.0	1903.9	1888.8	1957.5	2073.3	2092.5	2359.2	2493.3
30°	2106.4	2112.1	2110.5	2075.7	1999.2	1932.6	1974.7	2069.2	2086.0	2345.7	2484.7
32.5°	2254.9	2266.3	2275.3	2238.1	2142.4	2019.3	2014.4	2073.7	2086.0	2335.5	2469.2
35°	2409.1	2423.8	2456.9	2443.8	2317.9	2149.8	2082.7	2100.7	2110.9	2341.2	2461.8
37.5°	2560.8	2578.4	2650.4	2688.4	2547.7	2322.4	2189.0	2167.4	2172.7	2375.9	2470.0
40°	2737.1	2763.7	2872.9	2934.2	2822.2	2553.5	2348.1	2281.9	2283.9	2452.4	2508.1
42.5°	2968.6	2996.0	3114.2	3210.3	3131.4	2845.5	2564.1	2456.9	2454.9	2595.6	2597.6
45°	3250.8	3279.5	3401.7	3508.5	3472.9	3191.5	2840.6	2712.6	2710.1	2821.4	2767.4
47.5°	3570.7	3598.9	3708.1	3818.1	3856.6	3595.6	3192.7	3061.4	3055.7	3135.1	3029.5
50°	3845.1	3863.5	3964.1	4112.2	4285.6	4092.2	3630.8	3504.4	3498.3	3551.9	3414.4
52.5°	3944.9	3955.5	4057.8	4265.2	4697.9	4764.6	4206.3	4043.5	4039.0	4062.3	3926.9
55°	3742.9	3762.1	3887.7	4195.2	4921.2	5524.5	4932.7	4711.0	4677.0	4626.7	4462.7
57.5°	3192.3	3223.0	3358.0	3767.0	4816.9	6127.4	6000.2	5466.0	5416.1	5108.6	4898.3
60°	2391.9	2429.5	2541.6	2982.9	4260.3	6342.1	7166.7	6307.4	6194.9	5492.2	5298.7
62.5°	1641.4	1660.2	1736.3	2023.8	3137.5	5990.4	8142.6	7434.2	7228.9	5909.4	5731.9
65°	1253.6	1260.2	1291.2	1390.2	1868.4	4866.0	8530.7	8920.9	8672.7	6408.4	6181.4
67.5°	1010.3	1004.9	1047.9	1189.4	1251.2	2968.6	8078.0	10327.5	10211.4	7075.5	6633.8
69°	890.8	883.5	927.2	1091.7	1175.1	1962.4	7221.5	10647.0	10654.3	7427.6	6664.8
70°	801.7	806.6	849.9	1033.6	1149.3	1540.3	6403.5	10565.6	10623.7	7559.3	6478.3
72.5°	535.4	548.5	635.6	858.1	1105.1	1165.7	3866.4	9066.6	9289.9	7262.8	5558.1
75°	301.9	311.7	415.1	647.1	1041.3	1110.1	2042.2	6679.6	6895.5	6073.4	4286.0
77.5°	148.1	153.4	234.8	417.6	870.8	1057.7	1158.3	4537.2	4783.8	3964.1	2424.2
80°	62.6	65.4	117.4	257.7	622.5	1009.4	860.2	2792.3	2823.0	1553.0	645.8
82.5°	24.1	24.9	49.5	160.7	395.5	786.9	719.5	1324.0	1292.1	292.4	147.2
85°	2.9	3.3	18.0	96.5	220.0	404.9	584.5	570.6	528.0	58.1	75.7
87.5°	0.0	0.0	1.2	29.4	65.4	189.8	303.9	236.8	213.5	18.8	39.3
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°	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6	2442.6
2.5°	2436.5	2432.4	2410.3	2378.4	2348.1	2310.5	2274.5	2252.8	2235.7	2224.2	2237.7
5°	2443.0	2425.0	2357.9	2272.1	2187.8	2092.9	2004.6	1929.7	1900.3	1867.5	1882.3
7.5°	2441.0	2407.0	2286.4	2133.4	1978.8	1818.9	1667.5	1551.0	1490.4	1431.1	1446.3
10°	2430.8	2373.5	2190.7	1964.1	1732.6	1502.7	1288.0	1124.8	1033.6	951.0	962.8
12.5°	2408.3	2328.5	2077.8	1770.2	1460.6	1157.5	906.0	697.0	584.9	535.4	541.5
15°	2394.8	2284.7	1958.3	1573.9	1170.2	806.2	553.8	411.9	360.7	344.4	346.4
17.5°	2388.2	2242.6	1834.8	1349.3	873.2	513.3	357.9	315.8	304.7	301.9	302.7
20°	2381.7	2200.1	1707.6	1127.2	601.7	345.2	294.1	281.8	277.7	274.0	274.9
22.5°	2370.6	2159.2	1571.0	902.3	405.7	280.2	265.0	253.2	244.6	240.1	240.9
25°	2357.1	2116.2	1431.5	672.0	296.1	249.9	235.6	218.8	208.6	200.4	200.8
27.5°	2335.5	2063.5	1287.6	489.2	248.7	223.7	204.5	186.1	168.9	159.5	159.5
30°	2305.2	2003.7	1127.6	350.1	222.9	198.0	174.6	151.7	133.3	124.7	123.9
32.5°	2271.6	1941.6	966.1	265.4	202.5	173.8	147.2	123.1	106.8	99.8	99.4
35°	2243.0	1874.5	804.9	222.5	182.0	150.5	121.5	101.0	87.9	82.2	81.8
37.5°	2224.6	1807.4	647.9	198.8	163.6	128.8	101.8	83.4	74.0	69.5	69.1
40°	2221.7	1757.5	504.3	180.8	146.4	109.6	85.1	70.8	62.2	57.3	56.9
42.5°	2259.0	1728.9	386.9	165.6	128.8	92.8	72.4	60.5	51.5	46.6	46.2
45°	2356.7	1737.9	297.8	152.2	111.3	78.5	61.4	50.3	42.1	38.4	37.6
47.5°	2535.1	1800.1	236.8	138.7	94.5	66.7	52.4	41.7	34.8	31.1	30.7
50°	2852.4	1946.1	198.0	123.9	78.9	56.9	43.4	33.9	28.2	24.9	24.5
52.5°	3273.7	2206.2	176.7	109.6	65.4	48.3	35.6	27.0	22.1	19.6	19.2
55°	3738.4	2521.1	162.8	94.1	53.6	40.1	28.2	21.3	17.2	15.1	14.3
57.5°	4192.0	2794.0	149.7	78.9	44.6	32.7	22.5	16.8	13.5	11.5	11.0
60°	4608.7	3044.7	134.6	63.4	36.4	25.8	17.6	13.1	10.6	8.6	8.6
62.5°	5055.0	3238.6	113.7	49.5	29.9	19.6	14.3	11.9	8.6	7.4	7.0
65°	5527.8	3382.5	89.2	38.4	23.3	14.7	11.9	12.3	7.0	5.3	4.9
67.5°	5877.1	3353.9	65.9	30.3	18.0	11.5	11.5	13.1	6.1	4.1	3.7
69°	5800.2	3121.2	55.2	26.2	15.5	9.8	10.6	13.1	5.7	3.7	3.3
70°	5577.3	2863.5	48.7	23.3	13.9	9.0	10.2	12.7	5.3	3.7	3.3
72.5°	4644.7	2156.7	38.0	17.6	11.0	7.4	8.6	11.0	5.3	3.7	2.9
75°	3493.8	1380.4	29.0	12.7	8.2	5.7	6.5	8.2	5.3	3.3	2.9
77.5°	1901.1	497.8	20.9	8.6	5.7	4.5	4.5	6.1	4.9	2.5	1.6
80°	488.8	125.2	13.1	5.7	4.5	3.3	2.9	4.1	2.9	0.4	0.0
82.5°	120.7	28.2	7.0	4.1	3.3	1.2	1.2	2.0	1.2	0.0	0.0
85°	66.3	13.9	4.5	2.9	1.6	0.0	0.0	0.4	0.0	0.0	0.0
87.5°	33.9	4.1	1.2	0.8	0.4	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)