

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: P322679

Luminaire Tested: **GLEON-SA5B-827-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322679  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5B-827-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14911 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

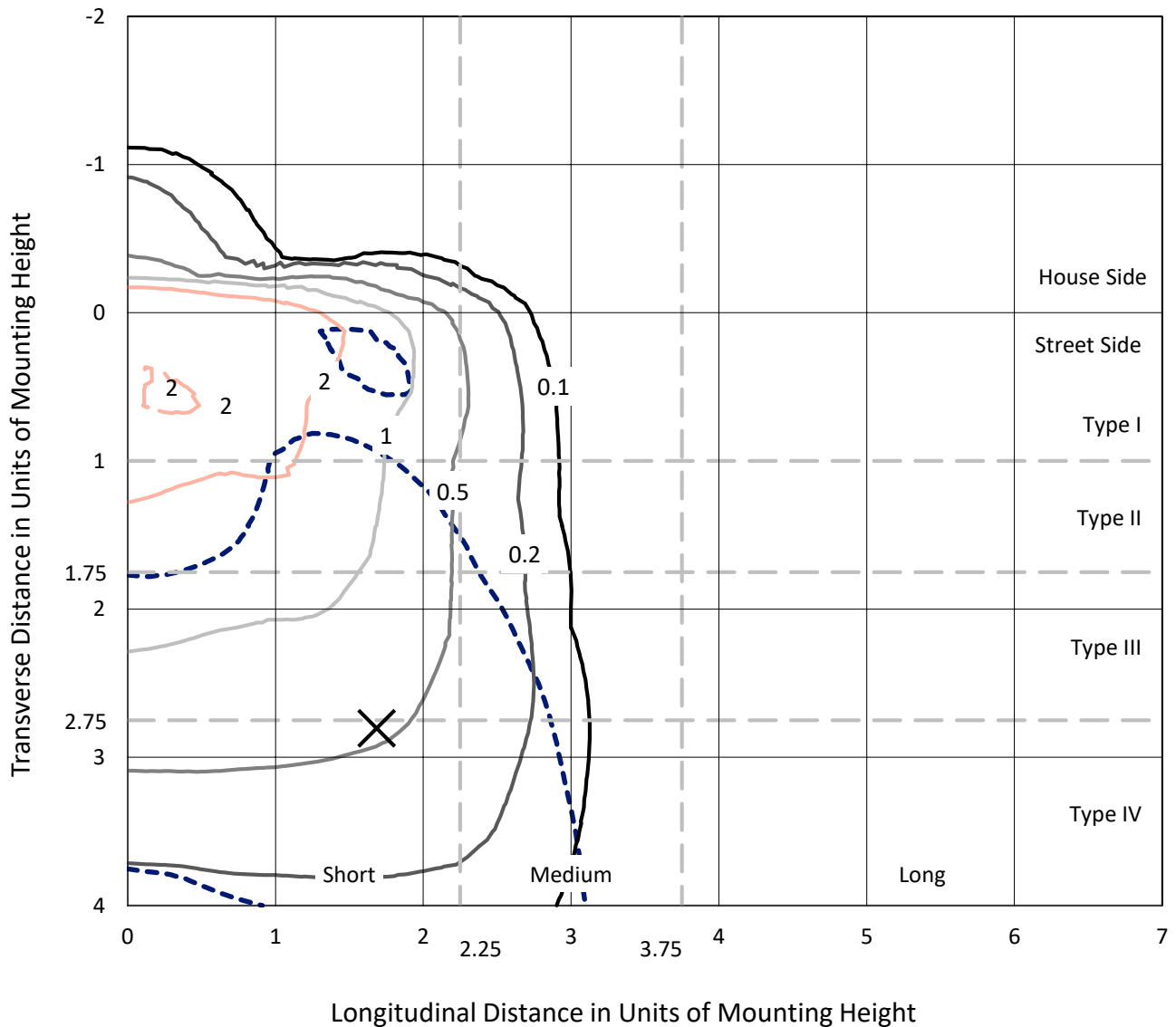
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

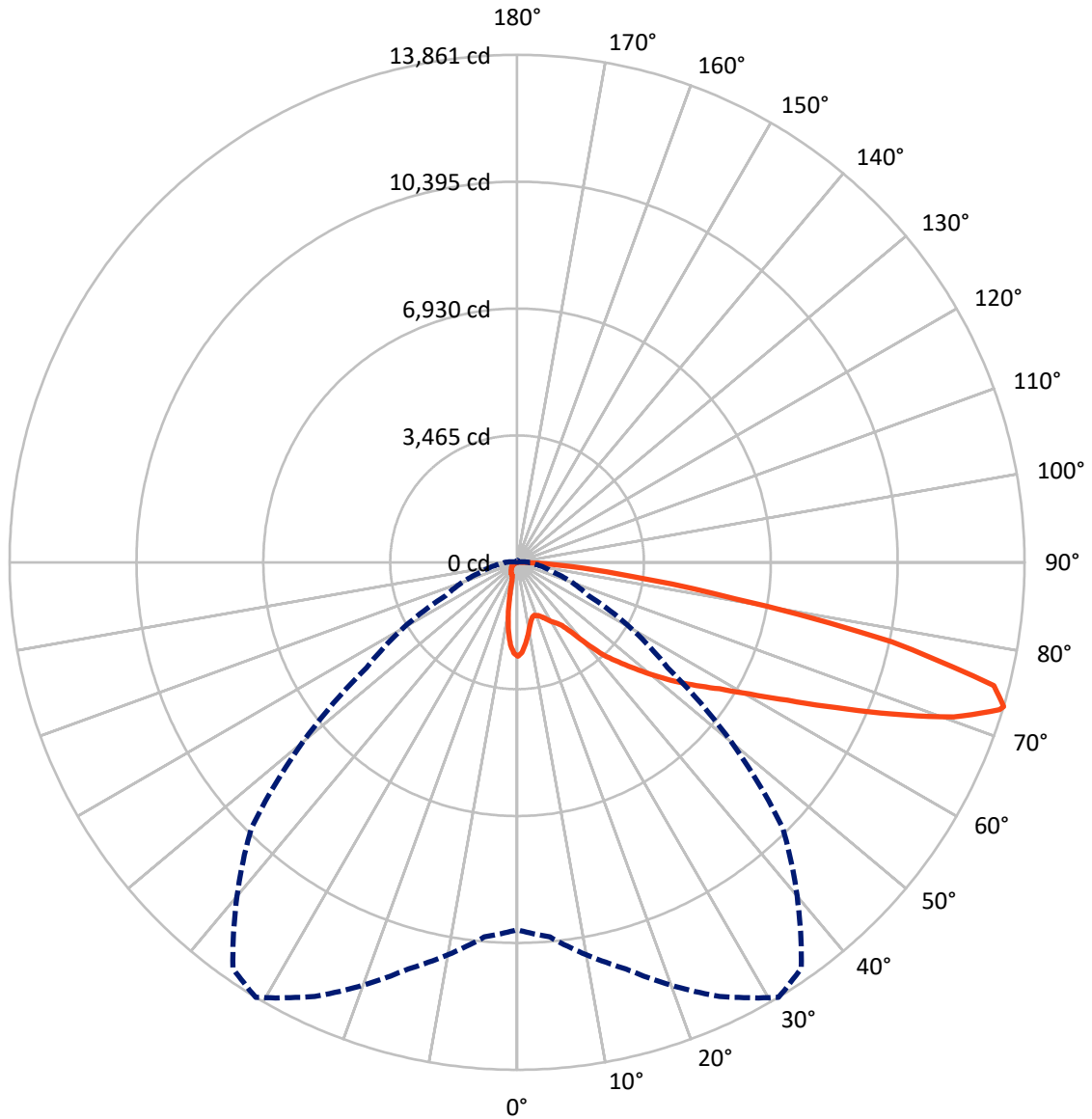
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1359.2	0.0	1359.2
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	13551.8	0.0	13551.8
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	14911.0	0.0	14911.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.7	1.4
10°-20°	461.9	3.1
20°-30°	692.0	4.6
30°-40°	1101.0	7.4
40°-50°	1966.0	13.2
50°-60°	3050.7	20.5
60°-70°	4055.5	27.2
70°-80°	3050.6	20.5
80°-90°	320.6	2.1
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°	14911.0	100.0
0°-180°	14911.0	100.0

**Coefficient of Utilization**



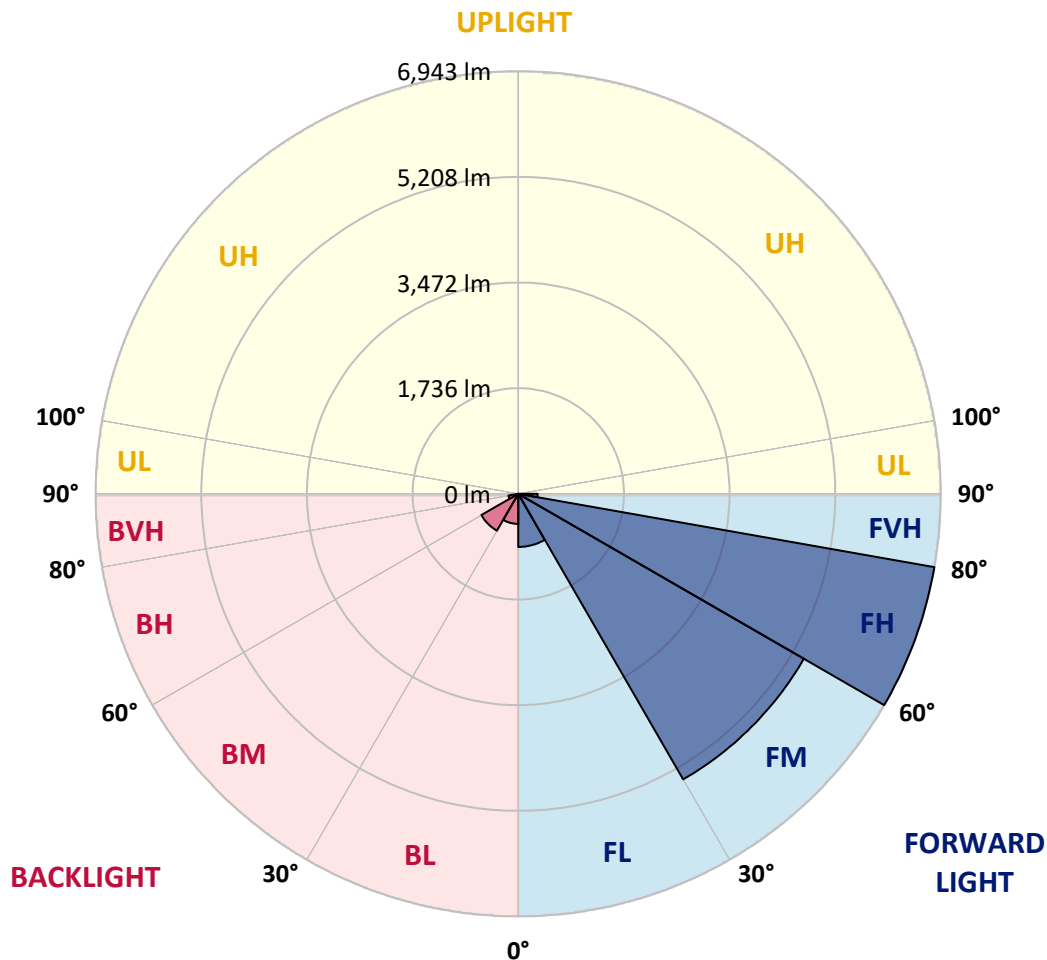
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	872.3	5.9			
FM (30°-60°)	5418.1	36.3			
FH (60°-80°)	6943.5	46.6			G3/7500
FVH (80°-90°)	317.9	2.1			G3/500
BL (0°-30°)	494.3	3.3	B1/500		
BM (30°-60°)	699.6	4.7	B1/1000		
BH (60°-80°)	162.6	1.1	B1/500		G1/500
BVH (80°-90°)	2.7	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2565.5	2565.5	2565.5	2565.5	2565.5	2565.5	2565.5	2565.5	2565.5	2565.5	2565.5
2.5°	2431.2	2441.4	2452.4	2454.6	2472.8	2473.5	2499.8	2519.5	2539.2	2558.2	2564.7
5°	2181.7	2198.5	2218.2	2237.9	2276.5	2291.8	2356.1	2421.7	2484.5	2544.3	2573.5
7.5°	1915.3	1934.3	1962.0	2010.9	2054.0	2083.9	2185.3	2302.1	2418.8	2529.0	2592.5
10°	1672.4	1689.9	1719.1	1770.9	1837.3	1878.1	2014.6	2176.6	2348.0	2515.1	2620.9
12.5°	1517.7	1527.2	1543.2	1598.7	1658.5	1704.5	1865.0	2065.7	2289.7	2514.4	2666.9
15°	1489.2	1492.1	1479.0	1503.8	1550.5	1595.0	1757.7	1975.9	2245.1	2526.1	2726.7
17.5°	1534.5	1533.0	1489.2	1486.3	1523.5	1560.0	1705.2	1913.9	2213.8	2553.1	2804.1
20°	1603.1	1597.9	1522.1	1508.2	1547.6	1581.9	1701.6	1890.5	2202.1	2598.3	2898.2
22.5°	1694.3	1685.5	1566.6	1552.0	1594.3	1630.0	1746.8	1913.2	2212.3	2658.9	3007.6
25°	1807.4	1794.2	1643.2	1627.1	1670.2	1705.9	1827.8	1978.1	2243.0	2732.6	3146.3
27.5°	1935.0	1916.1	1765.8	1724.2	1773.1	1810.3	1935.8	2077.3	2291.1	2810.6	3316.3
30°	2055.4	2030.6	1894.9	1826.3	1886.2	1927.7	2052.5	2195.5	2368.5	2931.0	3549.0
32.5°	2176.6	2148.8	2010.2	1928.5	1982.5	2027.7	2172.9	2358.2	2513.7	3114.9	3858.4
35°	2455.3	2426.1	2256.1	2121.1	2120.4	2145.9	2341.5	2580.8	2705.6	3371.0	4227.6
37.5°	2924.5	2907.7	2745.7	2489.6	2421.0	2392.5	2571.3	2846.4	2981.4	3723.4	4644.3
40°	3438.1	3423.5	3241.9	3009.8	2905.5	2835.4	2901.1	3216.3	3371.0	4153.9	5069.6
42.5°	4018.2	3948.9	3624.9	3555.6	3462.2	3408.9	3349.8	3672.4	3849.7	4622.4	5491.4
45°	4545.0	4428.3	4008.0	3902.9	3881.8	3894.9	3927.7	4285.3	4388.1	5179.1	5911.7
47.5°	4858.8	4766.8	4444.3	4343.6	4337.8	4424.6	4672.7	4977.7	4924.4	5664.3	6281.6
50°	5157.2	5074.0	4806.2	4831.0	4858.0	4976.2	5518.4	5689.9	5414.0	6104.3	6620.9
52.5°	5398.7	5271.8	5131.7	5271.0	5403.8	5594.3	6391.1	6329.0	5761.4	6454.5	6911.3
55°	5538.1	5480.4	5548.3	5688.4	5937.9	6247.3	7214.8	6860.9	6015.3	6774.1	7104.7
57.5°	6048.8	5935.7	6070.7	6191.9	6517.3	6950.0	7920.4	7257.2	6198.4	6971.9	7149.2
60°	6666.9	6575.7	6655.2	6856.6	7295.8	7804.4	8580.0	7580.4	6294.0	7098.8	7033.9
62.5°	7650.4	7530.0	7480.4	7705.9	8288.2	8843.4	9080.6	7804.4	6272.8	7042.6	6638.4
65°	8968.2	8843.4	8621.6	8825.9	9566.5	9958.3	9640.2	7851.8	6126.9	6588.1	5638.8
67.5°	10318.1	10227.6	10037.9	10382.3	11050.6	11176.9	10232.0	7736.5	5657.0	5341.8	3983.9
70°	11209.7	11171.0	11294.3	12056.1	12652.2	12615.7	10774.8	7117.1	4409.3	3284.9	1970.8
72.5°	10566.9	10752.2	11662.8	13044.0	13772.2	13474.5	10496.1	5465.1	2520.2	1263.8	569.9
73°	10034.2	10271.4	11497.2	13081.3	13860.5	13534.4	10261.9	5016.4	2148.1	997.4	432.0
75°	6980.6	7271.7	9518.4	12183.1	13447.5	12895.2	8553.7	3070.4	995.2	442.2	174.4
77.5°	3389.2	3604.5	5241.1	8802.6	10458.1	10075.1	5325.0	1144.1	449.5	276.5	80.3
80°	1265.2	1406.8	2275.1	4480.1	6043.7	6202.1	2342.2	432.7	299.2	222.5	40.9
82.5°	331.3	369.2	839.1	1997.8	3097.4	3241.9	738.4	218.2	218.9	183.1	24.8
85°	105.8	121.1	261.9	896.7	1459.3	1281.3	192.6	105.8	159.1	136.4	13.9
87.5°	13.1	16.8	83.2	210.9	321.8	178.8	29.9	31.4	67.9	75.9	8.0
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°	2565.5	2565.5	2565.5	2565.5	2565.5	2565.5	2565.5	2565.5	2565.5	2565.5	2565.5
2.5°	2571.3	2567.7	2568.4	2549.4	2537.0	2512.2	2486.7	2475.0	2462.6	2457.5	2462.6
5°	2584.4	2577.9	2558.9	2500.5	2438.5	2358.2	2283.1	2226.2	2154.7	2135.0	2155.4
7.5°	2604.9	2591.7	2536.3	2417.3	2279.4	2126.2	1954.0	1828.5	1725.6	1659.2	1683.3
10°	2634.8	2610.0	2498.3	2296.2	2049.6	1778.2	1533.7	1343.3	1208.3	1152.9	1150.7
12.5°	2685.1	2638.4	2451.6	2138.6	1768.7	1406.8	1086.5	880.0	770.5	699.7	698.3
15°	2740.6	2672.0	2392.5	1949.6	1441.8	1007.7	699.7	542.9	472.1	449.5	446.5
17.5°	2808.4	2710.7	2315.9	1716.9	1099.6	667.6	456.8	411.5	408.6	406.4	406.4
20°	2893.8	2756.6	2217.4	1450.6	780.0	445.8	388.2	391.1	392.6	389.6	390.4
22.5°	2993.0	2803.3	2099.9	1164.5	527.5	372.9	371.4	375.0	376.5	375.0	375.8
25°	3108.3	2857.3	1956.9	864.6	380.9	353.9	357.5	362.6	366.3	366.3	366.3
27.5°	3251.3	2923.0	1784.7	603.4	329.1	334.2	344.4	353.9	359.0	360.4	360.4
30°	3437.4	3004.7	1578.2	413.7	299.2	307.9	326.9	345.1	354.6	356.1	356.8
32.5°	3672.4	3096.7	1338.9	305.7	273.6	280.2	300.6	331.3	349.5	352.4	352.4
35°	3941.6	3203.2	1081.3	266.3	255.4	257.6	273.6	308.6	340.7	348.8	349.5
37.5°	4236.4	3308.3	822.3	248.8	240.1	240.1	251.7	281.6	319.6	344.4	347.3
40°	4511.5	3371.7	576.4	234.9	226.2	226.2	236.4	258.3	294.1	331.3	339.3
42.5°	4765.4	3393.6	401.3	221.8	213.1	215.2	224.0	241.5	268.5	305.7	313.0
45°	5026.6	3390.0	292.6	206.5	199.9	206.5	213.1	226.2	245.9	267.1	268.5
47.5°	5223.6	3359.3	232.0	191.9	187.5	196.3	202.1	210.9	221.8	220.4	220.4
50°	5408.2	3284.9	186.8	172.2	175.1	185.3	188.3	191.2	191.9	178.0	176.6
52.5°	5548.3	3168.9	149.6	151.0	162.7	172.9	170.0	165.6	158.3	141.6	138.6
55°	5595.0	2945.6	117.5	124.8	144.5	157.6	146.7	137.2	123.3	109.4	106.5
57.5°	5510.4	2657.4	95.6	97.0	121.9	132.8	120.4	109.4	94.1	82.5	80.3
60°	5330.9	2337.1	78.8	73.0	94.1	103.6	95.6	84.6	70.8	62.0	61.3
62.5°	4974.8	1995.6	64.9	56.9	71.5	79.5	74.4	66.4	54.7	48.9	48.2
65°	4226.2	1596.5	52.5	46.0	55.5	62.0	57.6	51.8	43.0	38.7	37.9
67.5°	2950.0	1079.2	43.0	37.9	43.8	48.9	45.2	42.3	34.3	33.6	34.3
70°	1422.8	520.2	35.8	30.6	34.3	37.9	36.5	34.3	32.8	37.9	43.8
72.5°	407.9	174.4	28.5	25.5	27.7	29.9	31.4	30.6	35.8	46.0	53.3
73°	313.8	140.8	27.0	24.1	26.3	29.2	30.6	29.9	36.5	46.7	53.3
75°	134.3	67.9	20.4	19.7	21.9	25.5	27.0	27.0	36.5	47.4	51.1
77.5°	60.6	36.5	13.1	15.3	19.0	20.4	22.6	22.6	29.2	36.5	36.5
80°	34.3	19.7	10.2	11.7	13.9	13.9	13.9	12.4	13.1	14.6	16.1
82.5°	21.9	13.1	8.0	9.5	8.8	7.3	5.8	5.8	5.1	5.8	7.3
85°	12.4	7.3	7.3	5.8	3.6	2.9	3.6	2.9	0.7	0.0	0.7
87.5°	7.3	4.4	2.2	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)