

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: P270110

Luminaire Tested: **GWC-AF-02-LED-E1-AFL-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270110  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-02-LED-E1-AFL-7027-600  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7171.7 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 66  
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: 25 FT

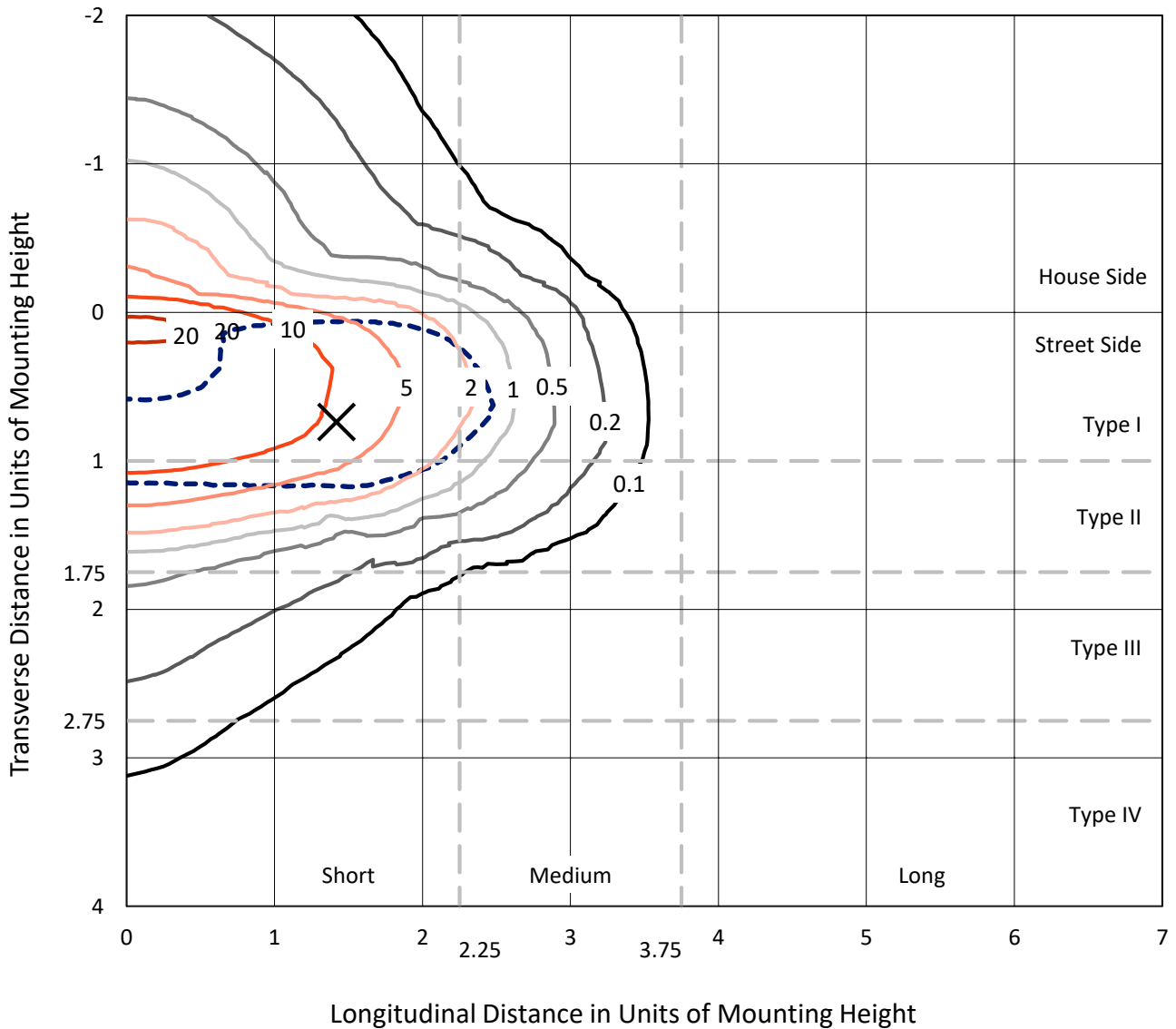


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### Iso-Footcandle Lines of Horizontal Illumination

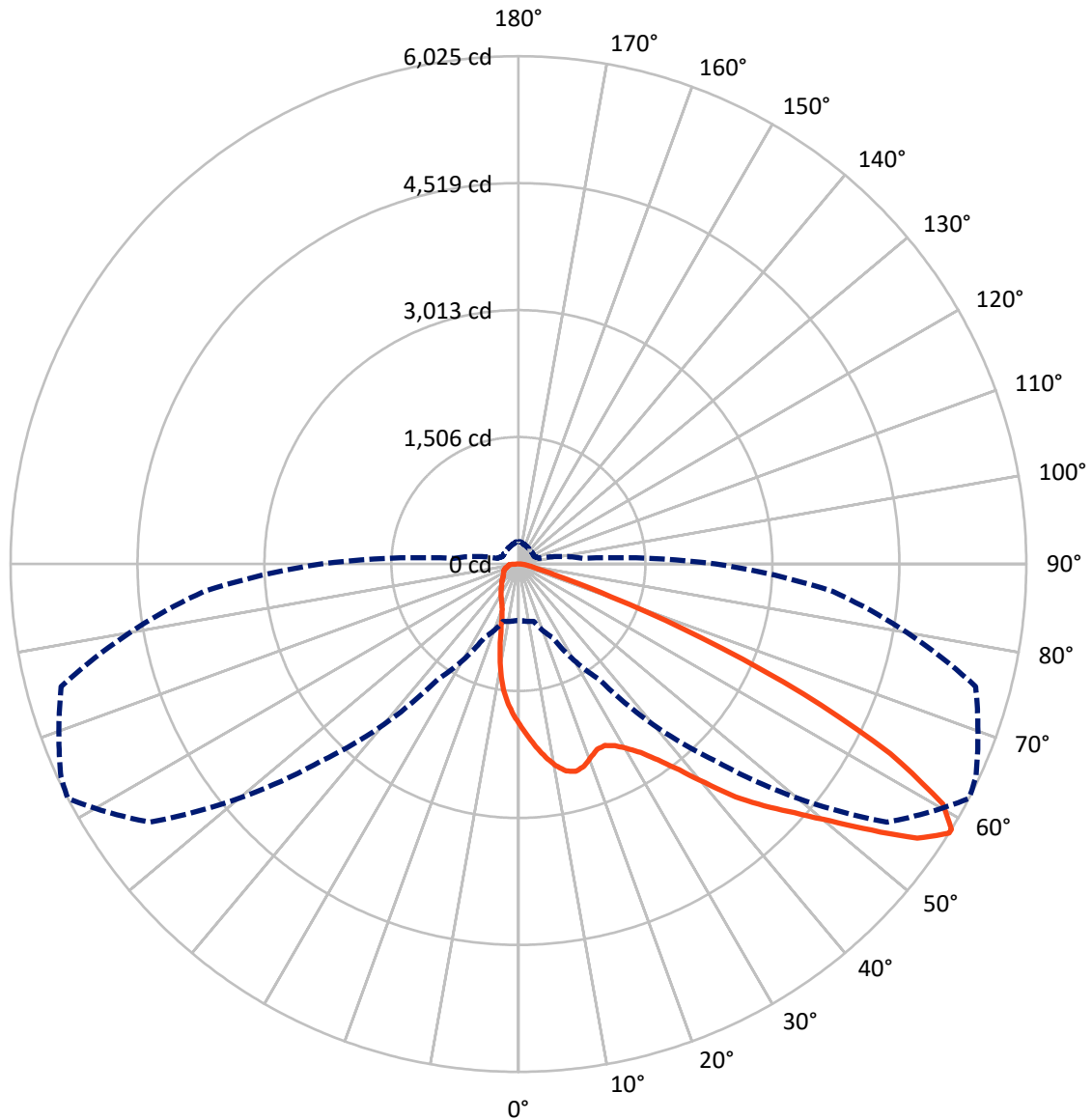
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.2 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1093.7	0.0	1093.7
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	6078.0	0.0	6078.0
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	7171.7	0.0	7171.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.4	2.4
10°-20°	435.5	6.1
20°-30°	704.0	9.8
30°-40°	1117.6	15.6
40°-50°	1635.3	22.8
50°-60°	1710.4	23.8
60°-70°	1010.5	14.1
70°-80°	284.7	4.0
80°-90°	103.4	1.4
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°	7171.7	100.0
0°-180°	7171.7	100.0

**Coefficient of Utilization**



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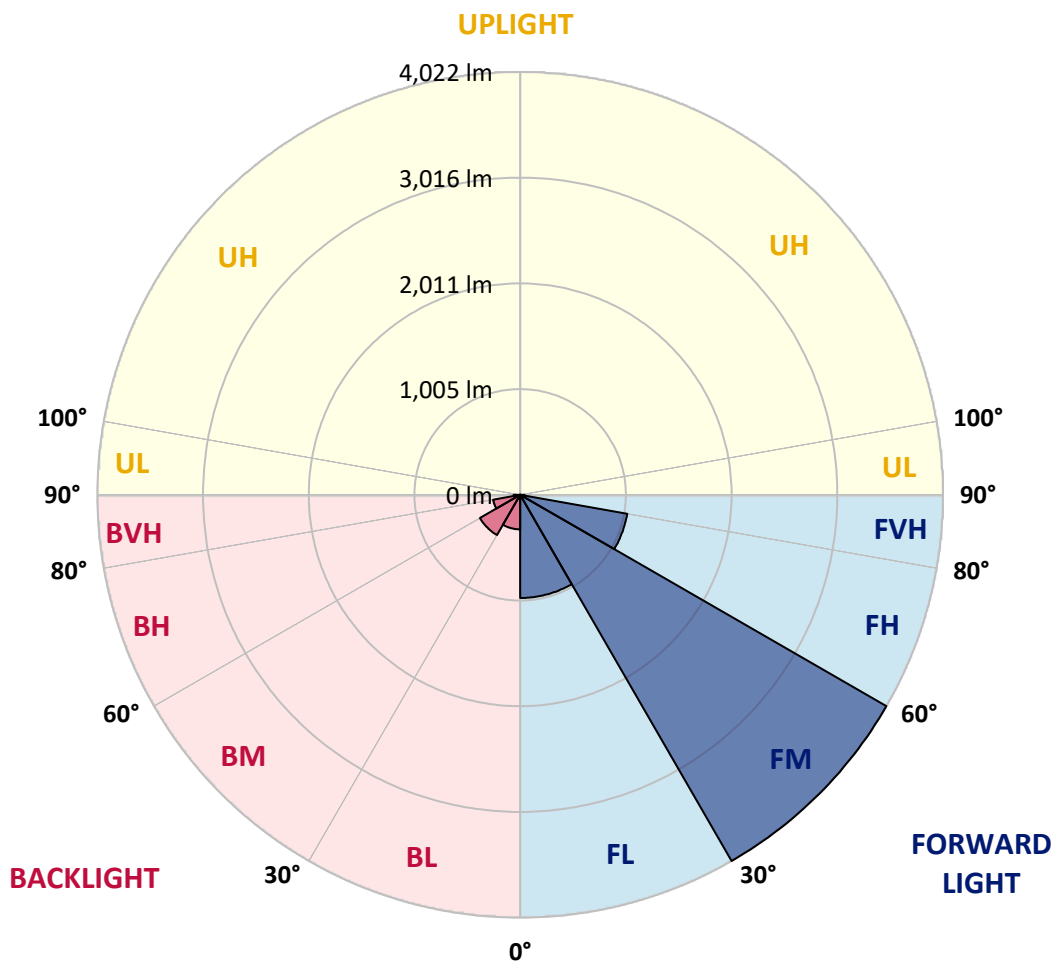
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	981.2	13.7			
FM	(30°-60°)	4021.8	56.1			
FH	(60°-80°)	1034.2	14.4			G1/1800
FVH	(80°-90°)	40.8	0.6			G1/100
BL	(0°-30°)	328.7	4.6	B1/500		
BM	(30°-60°)	441.5	6.2	B1/1000		
BH	(60°-80°)	261.0	3.6	B1/500		G1/500
BVH	(80°-90°)	62.6	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1905.0	1905.0	1905.0	1905.0	1905.0	1905.0	1905.0	1905.0	1905.0	1905.0	1905.0
2.5°	2176.9	2159.3	2148.1	2138.4	2125.6	2098.2	2061.4	2038.1	2026.3	1986.1	1938.5
5°	2390.3	2374.8	2363.3	2350.1	2327.1	2284.3	2224.8	2177.6	2154.2	2073.8	1978.6
7.5°	2340.4	2346.7	2366.7	2401.4	2431.1	2425.4	2372.3	2312.2	2281.6	2169.8	2025.2
10°	2039.1	2050.2	2084.6	2166.1	2297.8	2432.9	2474.0	2432.4	2401.4	2264.7	2073.2
12.5°	1978.6	1978.3	1981.0	2002.6	2081.0	2271.1	2477.4	2519.3	2500.7	2355.2	2122.2
15°	2003.3	2004.0	2002.0	2011.0	2035.4	2110.7	2374.1	2552.8	2565.9	2446.4	2172.8
17.5°	2068.2	2066.4	2058.7	2058.7	2067.4	2096.8	2252.5	2521.6	2582.5	2527.0	2217.4
20°	2176.9	2169.0	2148.5	2129.6	2120.2	2136.0	2202.6	2450.0	2553.8	2597.6	2254.2
22.5°	2308.6	2302.5	2269.0	2228.5	2195.8	2195.4	2228.2	2387.6	2504.0	2664.2	2285.2
25°	2478.8	2468.9	2419.3	2354.5	2297.1	2275.1	2284.3	2384.6	2477.1	2736.5	2313.0
27.5°	2678.7	2660.9	2602.1	2508.5	2424.1	2379.8	2366.7	2439.6	2501.8	2826.0	2351.4
30°	2921.2	2900.6	2825.3	2703.4	2584.2	2511.5	2483.5	2537.2	2583.4	2935.0	2413.3
32.5°	3197.2	3167.4	3080.3	2945.9	2789.1	2678.4	2632.8	2666.3	2703.0	3066.4	2490.6
35°	3578.3	3542.9	3416.9	3231.6	3054.6	2902.2	2829.3	2853.6	2889.4	3262.3	2602.4
37.5°	3838.5	3822.6	3738.7	3564.6	3372.1	3196.7	3084.0	3098.2	3118.4	3507.2	2745.6
40°	3836.0	3842.5	3844.1	3845.9	3714.8	3547.0	3425.7	3410.9	3406.7	3775.9	2908.4
42.5°	3643.8	3670.2	3755.3	3927.9	4007.6	3930.6	3819.5	3776.6	3755.3	4092.7	3080.9
45°	3349.8	3364.0	3523.3	3860.4	4157.5	4310.5	4226.4	4091.3	4052.8	4383.8	3224.1
47.5°	3198.1	3213.6	3313.9	3681.3	4155.9	4617.5	4666.1	4408.8	4339.9	4637.1	3347.7
50°	2837.1	2869.5	2995.8	3370.0	4004.2	4758.6	5125.7	4787.0	4644.5	4883.5	3471.6
52.5°	2174.2	2224.2	2365.6	2858.0	3619.5	4688.8	5493.6	5245.7	5044.3	5138.9	3578.0
55°	1371.4	1408.5	1527.5	2018.5	2895.5	4325.0	5633.0	5741.7	5562.8	5380.8	3670.2
57.5°	745.6	762.2	806.8	1114.4	1883.4	3520.9	5429.7	6024.0	5949.7	5586.1	3739.7
58°	667.3	678.5	706.2	965.8	1670.3	3301.1	5339.5	6025.1	5987.9	5616.1	3745.1
60°	495.1	489.4	464.7	551.1	929.7	2280.5	4794.4	5784.0	5893.0	5652.9	3718.8
62.5°	435.0	421.1	370.8	365.1	452.2	1050.7	3668.5	4954.5	5212.2	5442.9	3558.7
65°	408.6	393.7	329.0	307.9	326.2	444.4	2161.0	3715.8	4039.0	4805.9	3149.5
67.5°	389.1	369.8	302.3	273.5	274.9	293.8	866.2	2340.4	2704.1	3648.9	2449.8
70°	370.1	349.2	279.6	246.5	238.8	232.3	344.4	1171.5	1501.5	2304.8	1561.9
72.5°	349.9	329.3	259.7	225.3	210.0	188.8	224.9	479.2	669.3	1090.5	708.5
75°	320.5	301.9	239.8	206.3	184.8	156.4	169.9	250.3	300.3	434.2	341.4
77.5°	284.3	269.2	217.5	190.9	163.9	126.9	130.7	173.6	192.5	248.6	203.0
80°	204.4	209.8	193.6	171.6	145.9	103.0	100.3	126.7	136.8	159.8	132.1
82.5°	143.5	146.6	160.1	140.2	120.6	81.0	74.0	89.1	95.2	105.1	71.3
85°	99.0	95.6	109.8	97.6	87.1	54.0	50.7	60.5	64.1	65.2	36.8
87.5°	59.5	59.5	63.5	52.4	47.0	28.1	27.4	34.4	36.8	35.1	20.3
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°	1905.0	1905.0	1905.0	1905.0	1905.0	1905.0	1905.0	1905.0	1905.0	1905.0	1905.0
2.5°	1910.1	1886.1	1835.1	1794.2	1742.6	1688.9	1658.9	1626.7	1604.8	1588.9	1614.3
5°	1924.6	1875.7	1770.3	1670.3	1559.9	1445.0	1358.0	1276.9	1220.4	1185.3	1218.4
7.5°	1947.5	1872.2	1704.4	1533.5	1335.3	1144.1	973.2	866.2	803.7	773.0	792.2
10°	1973.8	1866.9	1627.1	1348.2	1064.4	823.7	696.0	652.8	638.6	632.9	635.6
12.5°	1995.9	1855.4	1532.1	1123.9	799.4	650.4	613.6	612.6	615.7	616.3	617.3
15°	2011.4	1838.5	1391.4	890.1	639.3	592.7	590.6	596.7	602.5	604.8	606.2
17.5°	2021.8	1803.7	1232.3	703.7	572.8	564.6	569.3	577.2	583.3	584.9	586.2
20°	2020.8	1752.8	1042.8	587.0	536.6	536.6	544.7	550.8	551.1	549.1	550.1
22.5°	2010.3	1682.8	859.1	524.8	504.5	510.3	518.4	512.7	488.9	473.4	474.5
25°	1992.8	1599.4	701.8	485.4	474.8	484.9	482.7	439.4	405.6	390.4	390.4
27.5°	1977.3	1500.8	580.8	450.9	445.1	457.6	415.7	376.6	362.4	355.3	352.9
30°	1966.1	1394.4	500.2	417.8	417.1	407.9	360.7	349.9	347.6	341.7	339.7
32.5°	1968.9	1286.7	448.4	388.7	391.0	349.2	334.3	336.8	334.7	328.6	325.9
35°	1991.2	1184.3	414.7	362.4	355.3	315.4	318.8	323.2	322.6	314.0	311.4
37.5°	2031.0	1087.4	392.4	340.4	310.0	298.5	303.9	310.7	309.0	303.3	301.2
40°	2072.8	996.2	374.1	323.2	283.4	287.0	291.8	295.5	297.2	298.9	297.5
42.5°	2113.7	901.0	351.9	305.7	272.2	276.2	278.3	282.1	291.1	297.5	297.2
45°	2138.0	811.5	329.0	280.6	263.4	265.8	264.5	271.9	283.0	293.5	293.8
47.5°	2165.0	742.0	310.7	257.7	255.0	256.6	252.6	260.1	270.1	283.0	284.3
50°	2197.8	700.4	296.2	239.5	243.5	243.5	242.5	249.2	263.4	278.3	281.0
52.5°	2235.0	692.2	284.0	226.3	232.0	231.7	232.8	242.8	258.4	272.8	275.2
55°	2280.3	714.2	270.8	216.5	220.9	222.2	225.6	237.1	250.3	266.8	267.9
57.5°	2332.9	758.9	260.4	208.7	210.7	215.1	220.5	231.0	245.1	263.4	264.5
58°	2341.7	768.3	258.7	208.0	208.7	213.8	219.9	230.1	244.2	264.1	265.2
60°	2342.0	799.7	255.0	205.0	201.0	209.4	216.1	226.3	242.5	266.5	268.8
62.5°	2258.9	799.4	252.3	200.6	192.9	203.3	211.1	222.9	240.8	272.2	276.9
65°	1989.1	726.5	239.5	193.9	186.4	197.9	206.7	220.5	245.6	297.2	300.3
67.5°	1555.8	595.4	215.4	184.4	178.0	192.5	204.0	220.2	250.5	303.0	305.0
70°	1028.6	445.5	189.1	173.6	169.2	186.1	205.4	231.7	244.9	290.8	285.4
72.5°	534.0	312.7	167.9	160.1	159.1	180.3	224.9	230.3	239.1	273.5	266.8
75°	280.3	217.2	149.3	145.2	147.0	178.9	265.4	224.2	231.7	261.8	274.6
77.5°	171.6	175.3	133.4	131.7	135.1	174.9	265.2	216.5	220.9	240.8	255.0
80°	114.8	142.2	121.3	121.5	124.0	160.1	238.1	204.4	207.7	227.6	242.2
82.5°	72.7	84.2	110.1	115.9	112.8	132.1	202.3	186.1	190.9	260.4	275.2
85°	36.8	52.6	95.6	111.5	101.7	92.5	164.1	163.1	165.5	187.7	196.3
87.5°	16.9	29.0	74.6	97.3	76.7	57.8	119.3	120.9	130.3	133.4	133.4
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)