

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: P199932

Luminaire Tested: **GWC-AF-02-LED-E1-AFL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199932
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-7030-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7983.6 lumens
Efficiency: N/A
Efficacy: 121.0 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

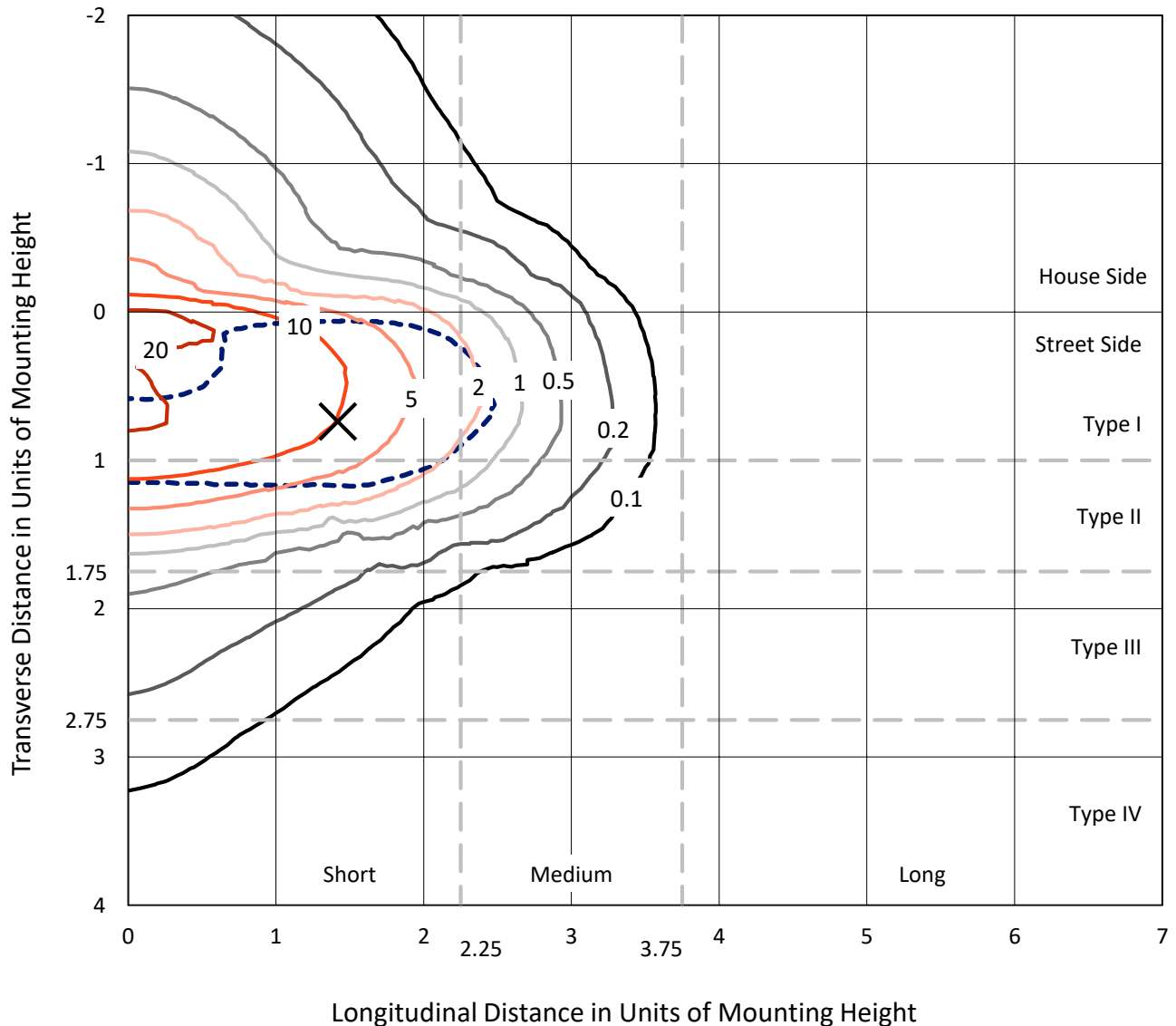


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

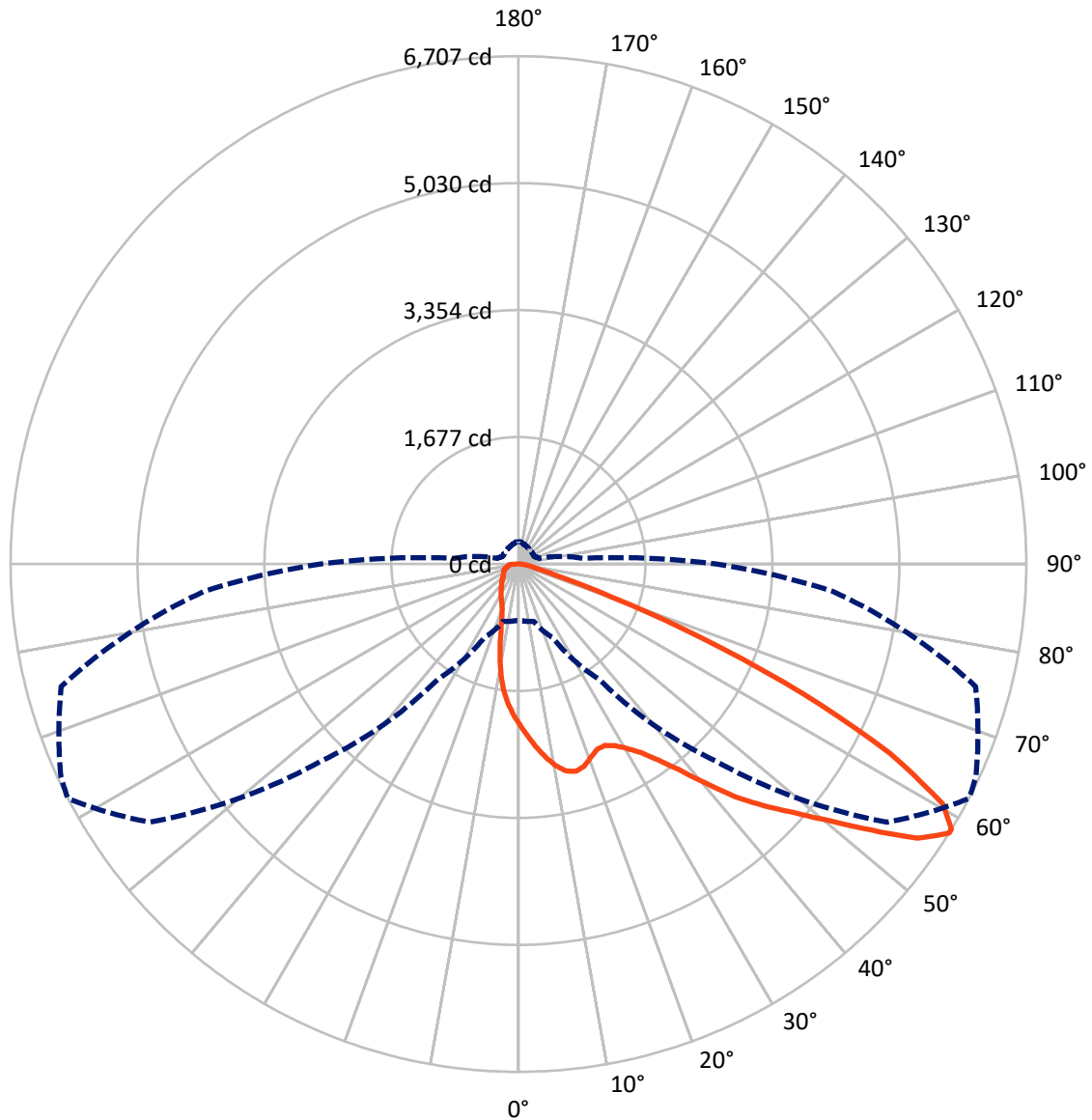


Based on 10 foot mounting height. Maximum calculated value = 25.8 fc
 Type II - Short - Full Cutoff

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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
House Side	Lumens	1217.6	0.0	1217.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	6766.1	0.0	6766.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	7983.6	0.0	7983.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.7	2.4
10°-20°	484.8	6.1
20°-30°	783.7	9.8
30°-40°	1244.1	15.6
40°-50°	1820.4	22.8
50°-60°	1904.0	23.8
60°-70°	1124.9	14.1
70°-80°	316.9	4.0
80°-90°	115.1	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°	7983.6	100.0
0°-180°	7983.6	100.0

Coefficient of Utilization



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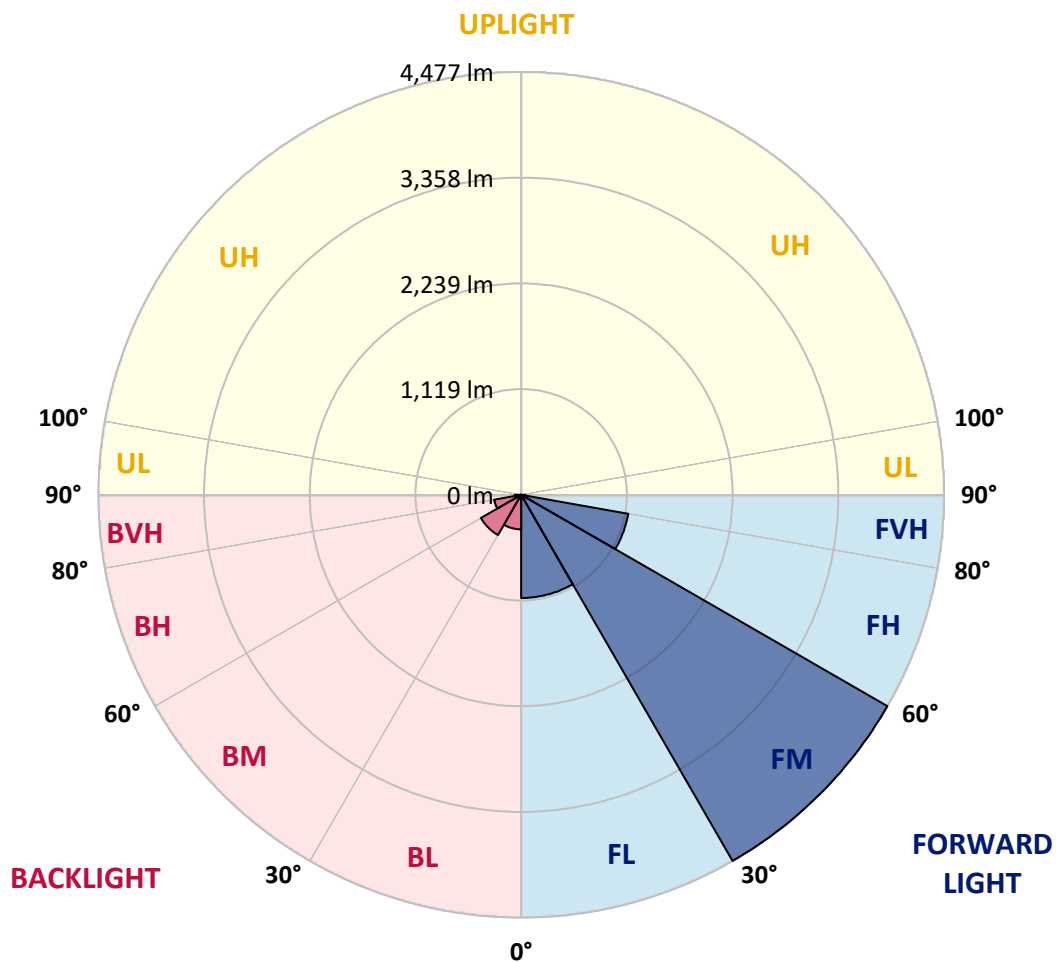
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1092.3	13.7			
FM	(30°-60°)	4477.2	56.1			
FH	(60°-80°)	1151.3	14.4			G1/1800
FVH	(80°-90°)	45.4	0.6			G1/100
BL	(0°-30°)	365.9	4.6	B1/500		
BM	(30°-60°)	491.4	6.2	B1/1000		
BH	(60°-80°)	290.5	3.6	B1/500		G1/500
BVH	(80°-90°)	69.7	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°	2120.7	2120.7	2120.7	2120.7	2120.7	2120.7	2120.7	2120.7	2120.7	2120.7	2120.7
2.5°	2423.3	2403.8	2391.3	2380.5	2366.2	2335.7	2294.8	2268.8	2255.7	2210.9	2157.9
5°	2660.9	2643.6	2630.8	2616.1	2590.6	2542.9	2476.7	2424.1	2398.1	2308.6	2202.6
7.5°	2605.3	2612.4	2634.6	2673.3	2706.3	2700.0	2640.9	2574.0	2539.9	2415.4	2254.5
10°	2269.9	2282.3	2320.6	2411.3	2557.9	2708.3	2754.1	2707.8	2673.3	2521.1	2307.9
12.5°	2202.6	2202.3	2205.3	2229.3	2316.6	2528.2	2757.9	2804.5	2783.8	2621.8	2362.4
15°	2230.1	2230.9	2228.6	2238.7	2265.8	2349.6	2642.9	2841.8	2856.4	2723.3	2418.8
17.5°	2302.3	2300.3	2291.8	2291.8	2301.5	2334.2	2507.5	2807.1	2874.9	2813.1	2468.4
20°	2423.3	2414.6	2391.7	2370.7	2360.2	2377.8	2451.9	2727.4	2842.9	2891.7	2509.4
22.5°	2569.9	2563.2	2525.9	2480.8	2444.4	2443.9	2480.5	2657.9	2787.5	2965.8	2543.9
25°	2759.4	2748.4	2693.2	2621.1	2557.2	2532.7	2542.9	2654.5	2757.5	3046.3	2574.8
27.5°	2982.0	2962.1	2896.7	2792.5	2698.5	2649.2	2634.6	2715.8	2785.0	3145.9	2617.6
30°	3251.9	3229.0	3145.1	3009.4	2876.7	2795.8	2764.7	2824.4	2875.9	3267.3	2686.5
32.5°	3559.1	3526.0	3429.0	3279.4	3104.9	2981.6	2930.8	2968.1	3009.0	3413.5	2772.5
35°	3983.4	3944.0	3803.7	3597.4	3400.4	3230.8	3149.6	3176.7	3216.5	3631.6	2897.0
37.5°	4273.0	4255.3	4162.0	3968.1	3753.8	3558.6	3433.1	3448.9	3471.4	3904.2	3056.4
40°	4270.3	4277.5	4279.3	4281.3	4135.3	3948.5	3813.5	3797.0	3792.4	4203.4	3237.6
42.5°	4056.3	4085.7	4180.4	4372.6	4461.3	4375.6	4251.9	4204.1	4180.4	4556.0	3429.7
45°	3729.0	3744.8	3922.2	4297.4	4628.2	4798.5	4704.9	4554.5	4511.6	4880.1	3589.1
47.5°	3560.1	3577.4	3689.1	4098.1	4626.4	5140.2	5194.3	4907.9	4831.2	5162.0	3726.7
50°	3158.3	3194.4	3335.0	3751.5	4457.5	5297.3	5706.0	5328.9	5170.3	5436.4	3864.6
52.5°	2420.3	2476.0	2633.4	3181.6	4029.3	5219.6	6115.5	5839.5	5615.4	5720.7	3983.1
55°	1526.7	1568.0	1700.4	2247.0	3223.3	4814.6	6270.7	6391.7	6192.5	5989.9	4085.7
57.5°	830.0	848.5	898.1	1240.6	2096.6	3919.5	6044.4	6706.0	6623.3	6218.5	4163.1
58°	742.8	755.3	786.1	1075.1	1859.4	3674.8	5944.0	6707.2	6665.8	6251.9	4169.1
60°	551.1	544.8	517.3	613.5	1035.0	2538.7	5337.2	6438.8	6560.1	6292.9	4139.8
62.5°	484.2	468.8	412.8	406.4	503.4	1169.6	4083.8	5515.4	5802.3	6059.1	3961.6
65°	454.9	438.3	366.2	342.8	363.1	494.7	2405.6	4136.5	4496.3	5350.0	3506.0
67.5°	433.1	411.7	336.5	304.5	306.0	327.1	964.3	2605.3	3010.2	4062.0	2727.1
70°	412.0	388.7	311.3	274.4	265.8	258.6	383.4	1304.1	1671.5	2565.7	1738.7
72.5°	389.5	366.6	289.1	250.8	233.8	210.2	250.4	533.5	745.1	1213.9	788.7
75°	356.8	336.1	266.9	229.7	205.7	174.1	189.1	278.6	334.3	483.4	380.1
77.5°	316.5	299.7	242.1	212.5	182.4	141.3	145.5	193.2	214.3	276.7	226.0
80°	227.5	233.5	215.5	191.0	162.4	114.7	111.7	141.0	152.3	177.9	147.0
82.5°	159.8	163.2	178.2	156.1	134.3	90.2	82.4	99.2	106.0	117.0	79.4
85°	110.2	106.4	122.2	108.7	97.0	60.1	56.4	67.3	71.4	72.6	41.0
87.5°	66.2	66.2	70.7	58.3	52.3	31.3	30.5	38.3	41.0	39.1	22.6
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°	2120.7	2120.7	2120.7	2120.7	2120.7	2120.7	2120.7	2120.7	2120.7	2120.7	2120.7
2.5°	2126.3	2099.6	2042.9	1997.3	1939.9	1880.1	1846.7	1810.9	1786.5	1768.8	1797.0
5°	2142.5	2088.0	1970.7	1859.4	1736.5	1608.6	1511.7	1421.4	1358.6	1319.5	1356.3
7.5°	2168.0	2084.2	1897.4	1707.1	1486.5	1273.6	1083.4	964.3	894.7	860.5	881.9
10°	2197.3	2078.2	1811.3	1500.8	1184.9	916.9	774.8	726.7	710.9	704.5	707.5
12.5°	2221.8	2065.4	1705.6	1251.1	889.9	724.0	683.1	681.9	685.4	686.1	687.2
15°	2239.1	2046.6	1548.9	990.9	711.7	659.8	657.5	664.3	670.7	673.3	674.8
17.5°	2250.7	2007.9	1371.8	783.4	637.6	628.5	633.8	642.5	649.3	651.1	652.6
20°	2249.6	1951.2	1160.9	653.4	597.4	597.4	606.4	613.2	613.5	611.3	612.4
22.5°	2237.9	1873.3	956.4	584.2	561.6	568.1	577.1	570.7	544.3	527.0	528.2
25°	2218.4	1780.5	781.2	540.3	528.6	539.8	537.3	489.1	451.5	434.6	434.6
27.5°	2201.1	1670.7	646.6	501.9	495.5	509.4	462.8	419.2	403.4	395.5	392.9
30°	2188.7	1552.3	556.8	465.1	464.3	454.1	401.5	389.5	386.9	380.4	378.2
32.5°	2191.8	1432.4	499.2	432.7	435.3	388.7	372.2	374.9	372.6	365.8	362.8
35°	2216.6	1318.4	461.6	403.4	395.5	351.1	354.9	359.8	359.1	349.6	346.6
37.5°	2260.9	1210.5	436.8	378.9	345.1	332.3	338.3	345.9	344.0	337.6	335.3
40°	2307.5	1109.0	416.5	359.8	315.5	319.5	324.8	329.0	330.8	332.7	331.2
42.5°	2353.0	1003.0	391.7	340.3	303.0	307.5	309.8	314.0	324.0	331.2	330.8
45°	2380.0	903.4	366.2	312.4	293.2	295.9	294.4	302.7	315.0	326.7	327.1
47.5°	2410.1	826.0	345.9	286.9	283.9	285.7	281.2	289.5	300.7	315.0	316.5
50°	2446.6	779.7	329.7	266.6	271.1	271.1	269.9	277.4	293.2	309.8	312.8
52.5°	2488.0	770.6	316.2	251.9	258.3	257.9	259.1	270.3	287.6	303.7	306.4
55°	2538.4	795.1	301.5	241.0	245.9	247.4	251.1	263.9	278.6	297.0	298.2
57.5°	2597.0	844.8	289.9	232.3	234.6	239.5	245.5	257.1	272.9	293.2	294.4
58°	2606.8	855.3	288.0	231.6	232.3	238.0	244.8	256.1	271.8	294.0	295.2
60°	2607.1	890.2	283.9	228.2	223.7	233.1	240.6	251.9	269.9	296.7	299.2
62.5°	2514.6	889.9	280.9	223.3	214.7	226.3	235.0	248.1	268.1	303.0	308.3
65°	2214.3	808.7	266.6	215.8	207.5	220.3	230.1	245.5	273.4	330.8	334.3
67.5°	1731.9	662.8	239.8	205.3	198.2	214.3	227.1	245.1	278.9	337.3	339.5
70°	1145.1	495.9	210.5	193.2	188.4	207.2	228.6	257.9	272.6	323.7	317.7
72.5°	594.4	348.1	186.9	178.2	177.1	200.7	250.4	256.4	266.2	304.5	297.0
75°	312.0	241.8	166.2	161.6	163.6	199.2	295.5	249.6	257.9	291.4	305.7
77.5°	191.0	195.2	148.5	146.6	150.4	194.7	295.2	241.0	245.9	268.1	283.9
80°	127.8	158.3	135.0	135.3	138.0	178.2	265.1	227.5	231.2	253.4	269.6
82.5°	80.9	93.7	122.6	129.0	125.6	147.0	225.2	207.2	212.5	289.9	306.4
85°	41.0	58.6	106.4	124.1	113.2	103.0	182.7	181.6	184.2	209.0	218.5
87.5°	18.8	32.3	83.1	108.3	85.4	64.3	132.8	134.6	145.1	148.5	148.5
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)