

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: P200092

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200092
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-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8589.7 lumens
Efficiency: N/A
Efficacy: 130.1 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

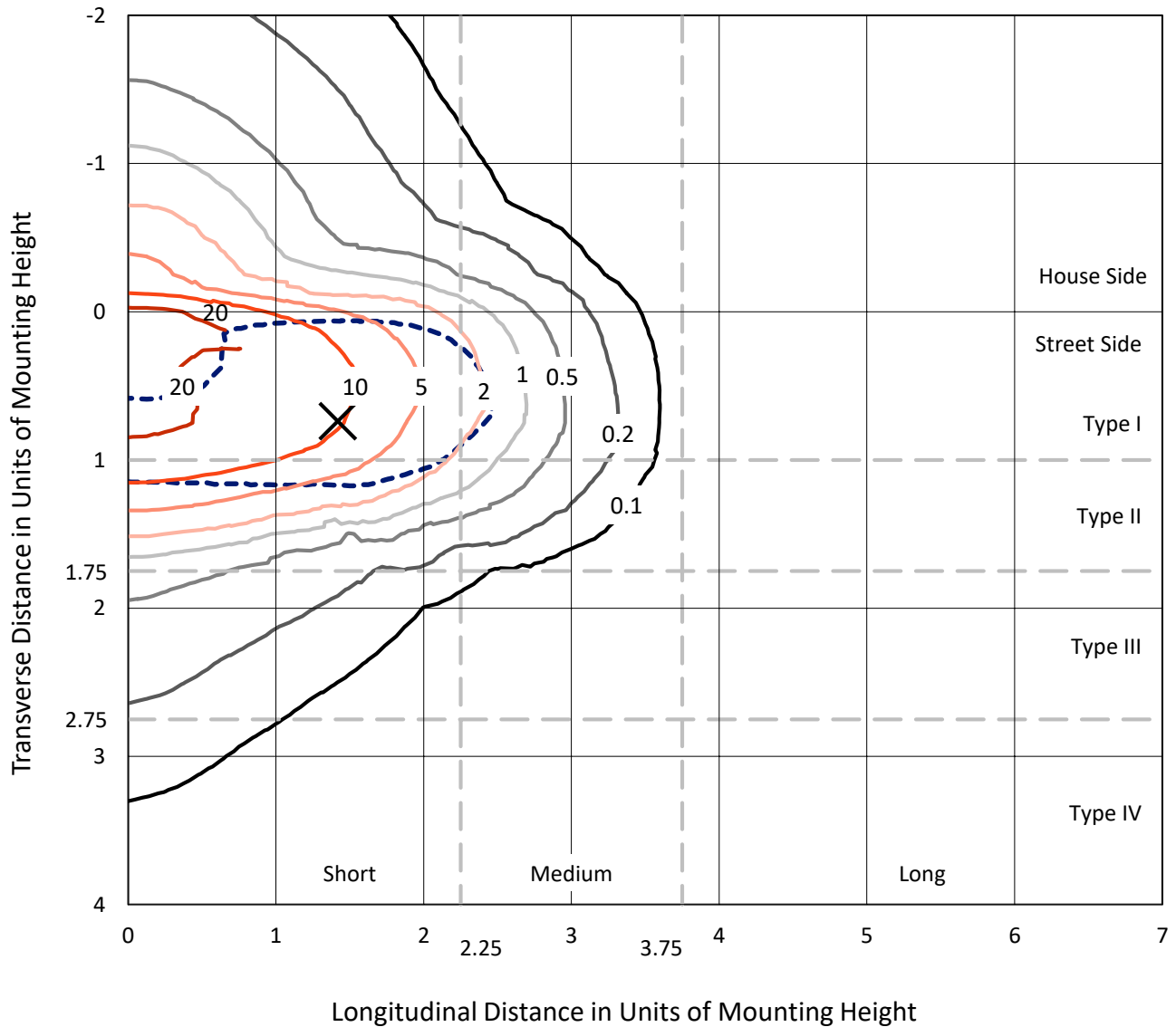
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

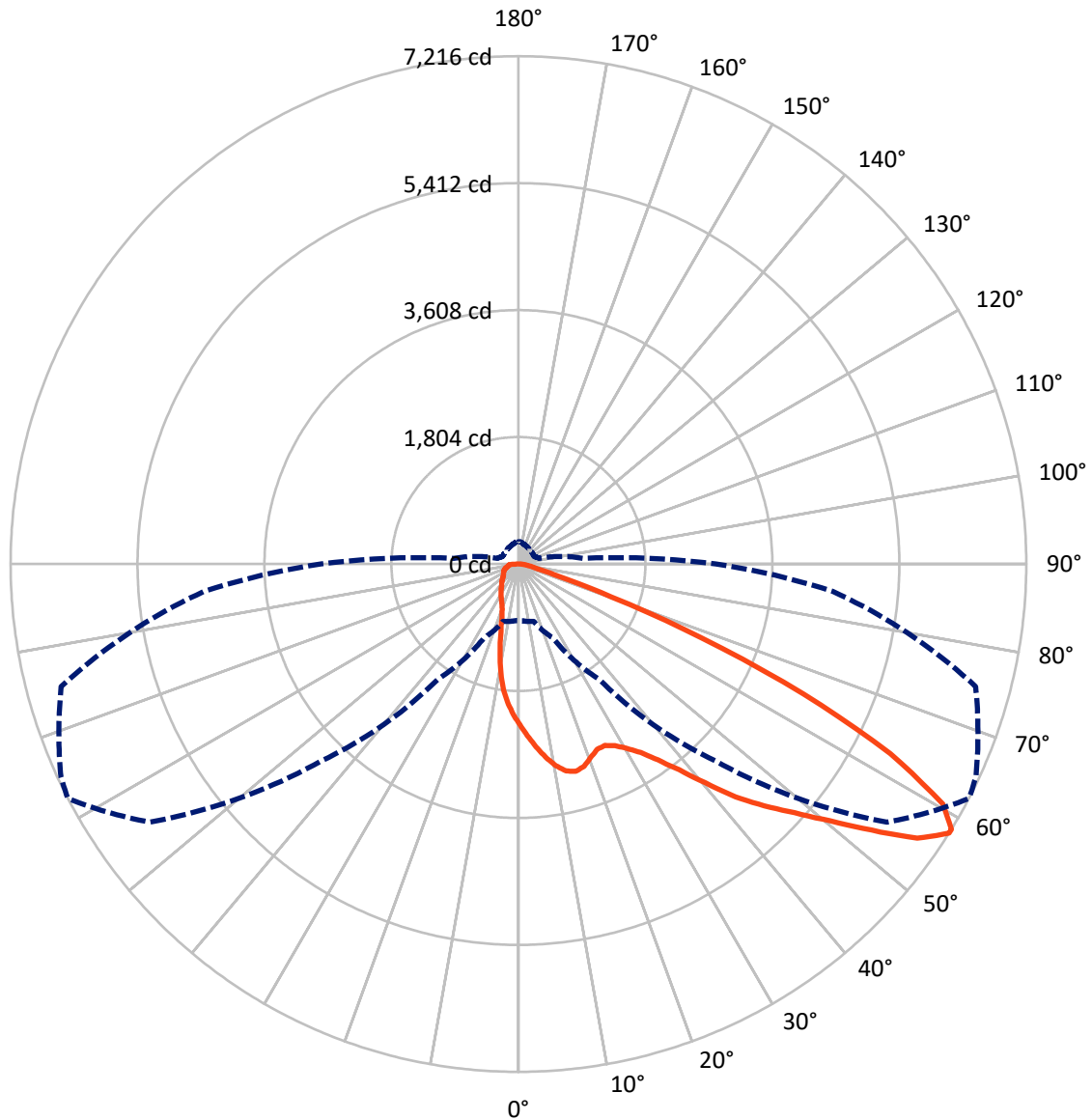
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.8 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	1310.0	0.0	1310.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	7279.7	0.0	7279.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	8589.7	0.0	8589.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	2.4
10°-20°	521.6	6.1
20°-30°	843.2	9.8
30°-40°	1338.6	15.6
40°-50°	1958.6	22.8
50°-60°	2048.6	23.8
60°-70°	1210.3	14.1
70°-80°	340.9	4.0
80°-90°	123.8	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°	8589.7	100.0
0°-180°	8589.7	100.0



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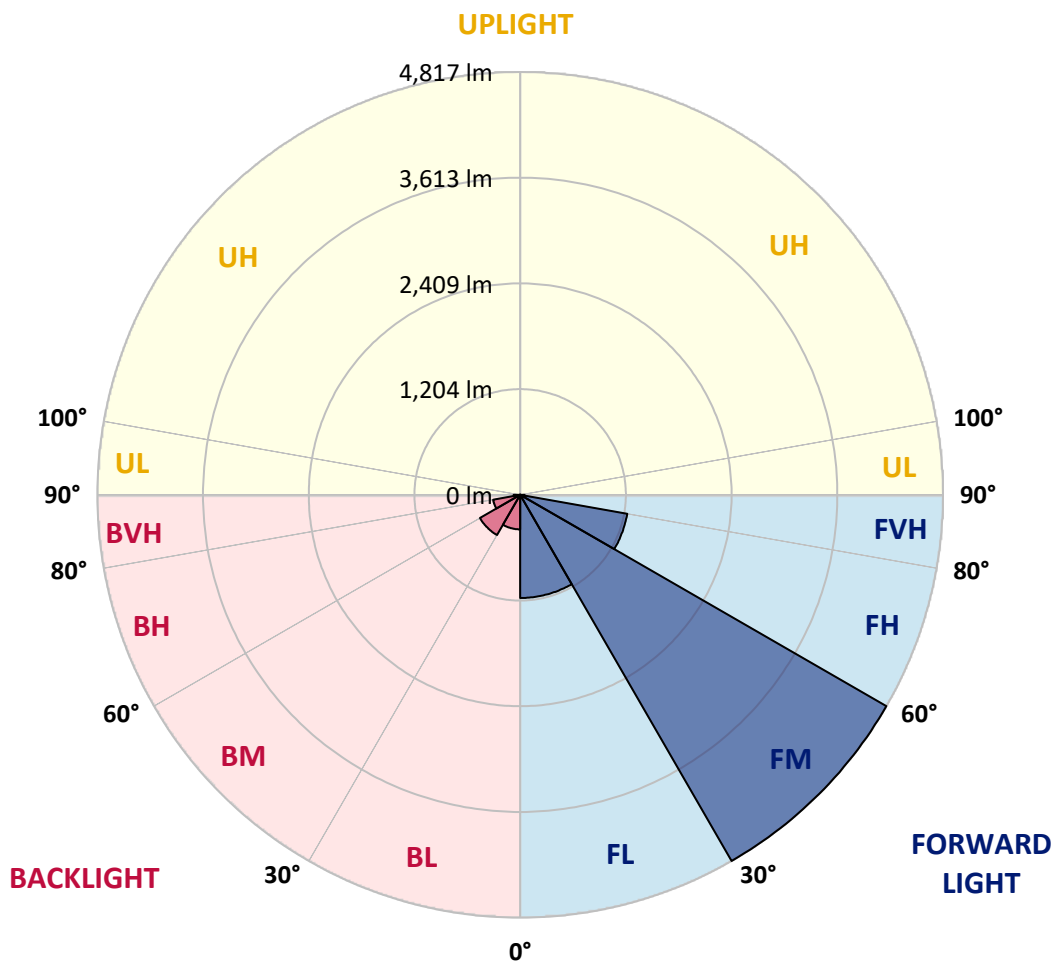
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1175.2	13.7			
FM (30°-60°)	4817.1	56.1			
FH (60°-80°)	1238.7	14.4			G1/1800
FVH (80°-90°)	48.8	0.6			G1/100
BL (0°-30°)	393.7	4.6	B1/500		
BM (30°-60°)	528.7	6.2	B1/1000		
BH (60°-80°)	312.6	3.6	B1/500		G1/500
BVH (80°-90°)	75.0	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°	2281.7	2281.7	2281.7	2281.7	2281.7	2281.7	2281.7	2281.7	2281.7	2281.7	2281.7
2.5°	2607.3	2586.2	2572.9	2561.2	2545.8	2513.1	2469.0	2441.1	2426.8	2378.8	2321.7
5°	2862.9	2844.3	2830.6	2814.8	2787.3	2735.9	2664.7	2608.1	2580.2	2483.9	2369.9
7.5°	2803.1	2810.8	2834.6	2876.2	2911.8	2905.0	2841.5	2769.5	2732.7	2598.8	2425.7
10°	2442.3	2455.6	2496.8	2594.3	2752.1	2913.9	2963.3	2913.5	2876.2	2712.5	2483.1
12.5°	2369.9	2369.5	2372.7	2398.6	2492.4	2720.1	2967.3	3017.4	2995.2	2820.9	2541.7
15°	2399.4	2400.1	2397.8	2408.6	2437.8	2528.0	2843.5	3057.5	3073.3	2930.0	2602.4
17.5°	2477.1	2475.0	2465.7	2465.7	2476.3	2511.4	2697.9	3020.3	3093.1	3026.7	2655.8
20°	2607.3	2598.0	2573.3	2550.6	2539.4	2558.4	2638.0	2934.5	3058.7	3111.3	2699.9
22.5°	2765.0	2757.8	2717.7	2669.2	2629.9	2629.5	2668.8	2859.7	2999.2	3191.0	2737.1
25°	2968.9	2957.1	2897.7	2820.1	2751.3	2725.0	2735.9	2856.1	2966.9	3277.5	2770.3
27.5°	3208.4	3186.9	3116.5	3004.5	2903.3	2850.4	2834.6	2922.0	2996.4	3384.7	2816.4
30°	3498.8	3474.1	3383.9	3237.8	3095.1	3008.1	2974.5	3038.9	3094.3	3515.4	2890.4
32.5°	3829.2	3793.6	3689.3	3528.3	3340.7	3208.0	3153.3	3193.3	3237.4	3672.7	2983.0
35°	4285.9	4243.4	4092.5	3870.5	3658.6	3476.1	3388.7	3417.9	3460.7	3907.3	3116.9
37.5°	4597.3	4578.3	4478.1	4269.3	4038.7	3828.8	3693.8	3710.8	3735.0	4200.5	3288.5
40°	4594.5	4602.2	4604.2	4606.2	4449.3	4248.3	4103.1	4085.3	4080.4	4522.5	3483.4
42.5°	4364.3	4395.9	4497.8	4704.6	4800.0	4707.7	4574.7	4523.3	4497.8	4901.9	3690.1
45°	4012.0	4029.1	4220.0	4623.6	4979.6	5162.8	5062.1	4900.3	4854.2	5250.6	3861.6
47.5°	3830.4	3849.1	3969.2	4409.2	4977.6	5530.5	5588.7	5280.5	5198.0	5553.9	4009.7
50°	3398.0	3436.9	3588.2	4036.4	4795.9	5699.6	6139.2	5733.5	5562.8	5849.2	4158.1
52.5°	2604.0	2664.0	2833.4	3423.1	4335.3	5615.8	6579.7	6282.9	6041.8	6155.0	4285.4
55°	1642.6	1687.1	1829.4	2417.5	3468.0	5180.2	6746.8	6877.0	6662.6	6444.6	4395.9
57.5°	893.1	912.9	966.3	1334.7	2255.8	4217.1	6503.3	7215.2	7126.2	6690.5	4479.2
58°	799.2	812.6	845.8	1156.9	2000.6	3953.8	6395.3	7216.4	7171.9	6726.5	4485.7
60°	593.0	586.0	556.6	660.1	1113.6	2731.5	5742.4	6927.5	7058.3	6770.6	4454.1
62.5°	521.0	504.4	444.2	437.2	541.7	1258.3	4393.9	5934.1	6242.8	6519.1	4262.4
65°	489.4	471.6	393.9	368.9	390.8	532.3	2588.3	4450.6	4837.6	5756.1	3772.2
67.5°	466.0	442.9	362.0	327.7	329.3	351.9	1037.5	2803.1	3238.7	4370.5	2934.1
70°	443.3	418.3	334.9	295.2	286.0	278.2	412.6	1403.2	1798.3	2760.6	1870.8
72.5°	419.0	394.3	311.1	269.8	251.5	226.1	269.3	574.0	801.7	1306.1	848.6
75°	383.8	361.6	287.1	247.1	221.3	187.3	203.5	299.7	359.6	520.2	409.0
77.5°	340.5	322.3	260.4	228.5	196.2	152.1	156.5	207.9	230.6	297.7	243.1
80°	244.7	251.1	231.8	205.5	174.7	123.4	120.1	151.7	163.8	191.3	158.1
82.5°	171.9	175.5	191.7	167.9	144.4	97.1	88.6	106.8	114.1	125.8	85.3
85°	118.6	114.5	131.4	116.9	104.3	64.8	60.7	72.4	76.8	78.1	44.1
87.5°	71.2	71.2	76.0	62.7	56.3	33.6	32.7	41.2	44.1	42.0	24.2
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°	2281.7	2281.7	2281.7	2281.7	2281.7	2281.7	2281.7	2281.7	2281.7	2281.7	2281.7
2.5°	2287.7	2259.0	2197.9	2149.0	2087.1	2022.8	1986.8	1948.4	1922.1	1903.1	1933.4
5°	2305.1	2246.5	2120.3	2000.6	1868.3	1730.7	1626.4	1529.3	1461.8	1419.8	1459.3
7.5°	2332.6	2242.4	2041.4	1836.7	1599.3	1370.3	1165.8	1037.5	962.7	925.9	948.9
10°	2364.2	2236.0	1948.8	1614.7	1274.9	986.5	833.6	781.8	764.9	758.0	761.3
12.5°	2390.5	2222.3	1835.2	1346.1	957.4	779.1	735.0	733.8	737.3	738.2	739.4
15°	2409.0	2202.0	1666.5	1066.2	765.7	709.8	707.5	714.7	721.6	724.5	726.1
17.5°	2421.6	2160.4	1475.9	842.9	686.0	676.3	682.0	691.3	698.6	700.5	702.2
20°	2420.4	2099.3	1249.0	703.0	642.7	642.7	652.4	659.7	660.1	657.7	658.9
22.5°	2407.9	2015.5	1029.0	628.6	604.3	611.2	620.9	614.0	585.6	567.1	568.2
25°	2386.9	1915.6	840.6	581.2	568.7	580.8	578.0	526.2	485.8	467.6	467.6
27.5°	2368.2	1797.5	695.7	540.0	533.1	548.1	497.9	451.0	434.0	425.5	422.7
30°	2354.9	1670.1	599.0	500.3	499.5	488.7	432.0	419.0	416.2	409.4	406.9
32.5°	2358.1	1541.1	537.2	465.5	468.4	418.3	400.5	403.2	400.8	393.5	390.4
35°	2384.8	1418.5	496.7	434.0	425.5	377.8	381.9	387.1	386.3	376.1	373.0
37.5°	2432.6	1302.4	470.0	407.7	371.3	357.5	364.1	372.1	370.1	363.2	360.8
40°	2482.7	1193.3	448.2	387.1	339.3	343.8	349.4	353.9	356.0	357.9	356.4
42.5°	2531.7	1079.1	421.5	366.0	326.0	330.8	333.3	337.8	348.6	356.4	356.0
45°	2560.8	972.0	393.9	336.1	315.5	318.3	316.7	325.6	339.0	351.5	351.9
47.5°	2593.2	888.6	372.1	308.6	305.4	307.4	302.6	311.5	323.6	339.0	340.5
50°	2632.4	838.9	354.8	286.7	291.6	291.6	290.4	298.5	315.5	333.3	336.6
52.5°	2676.9	829.2	340.1	271.0	277.8	277.4	278.7	290.8	309.4	326.8	329.7
55°	2731.1	855.5	324.4	259.3	264.5	266.2	270.2	284.0	299.7	319.6	320.8
57.5°	2794.2	908.9	311.9	250.0	252.4	257.7	264.1	276.7	293.7	315.5	316.7
58°	2804.7	920.2	309.9	249.2	250.0	256.0	263.3	275.5	292.5	316.3	317.5
60°	2805.0	957.8	305.4	245.5	240.7	250.8	258.9	271.0	290.4	319.2	321.9
62.5°	2705.6	957.4	302.2	240.3	231.0	243.5	252.8	267.0	288.4	326.0	331.6
65°	2382.4	870.0	286.7	232.2	223.3	237.0	247.6	264.1	294.1	356.0	359.6
67.5°	1863.4	713.1	258.1	220.9	213.2	230.6	244.3	263.7	300.1	362.8	365.3
70°	1232.0	533.5	226.5	207.9	202.6	222.9	245.9	277.4	293.3	348.2	341.8
72.5°	639.4	374.5	201.0	191.7	190.5	215.9	269.3	275.9	286.3	327.7	319.6
75°	335.7	260.0	178.8	173.9	175.9	214.4	317.9	268.6	277.4	313.4	328.9
77.5°	205.5	209.9	159.8	157.7	161.8	209.5	317.5	259.3	264.5	288.4	305.4
80°	137.5	170.3	145.3	145.6	148.4	191.7	285.2	244.7	248.8	272.6	290.0
82.5°	87.0	100.8	131.9	138.7	135.1	158.1	242.2	222.9	228.5	311.9	329.7
85°	44.1	63.1	114.5	133.5	121.7	110.8	196.6	195.4	198.1	224.8	235.0
87.5°	20.3	34.8	89.4	116.5	91.9	69.2	142.8	144.8	156.1	159.8	159.8
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)