

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: P270112

Luminaire Tested: **GWC-AF-02-LED-E1-AFL-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270112
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-7027-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8794.6 lumens
Efficiency: N/A
Efficacy: 102.3 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): 86
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

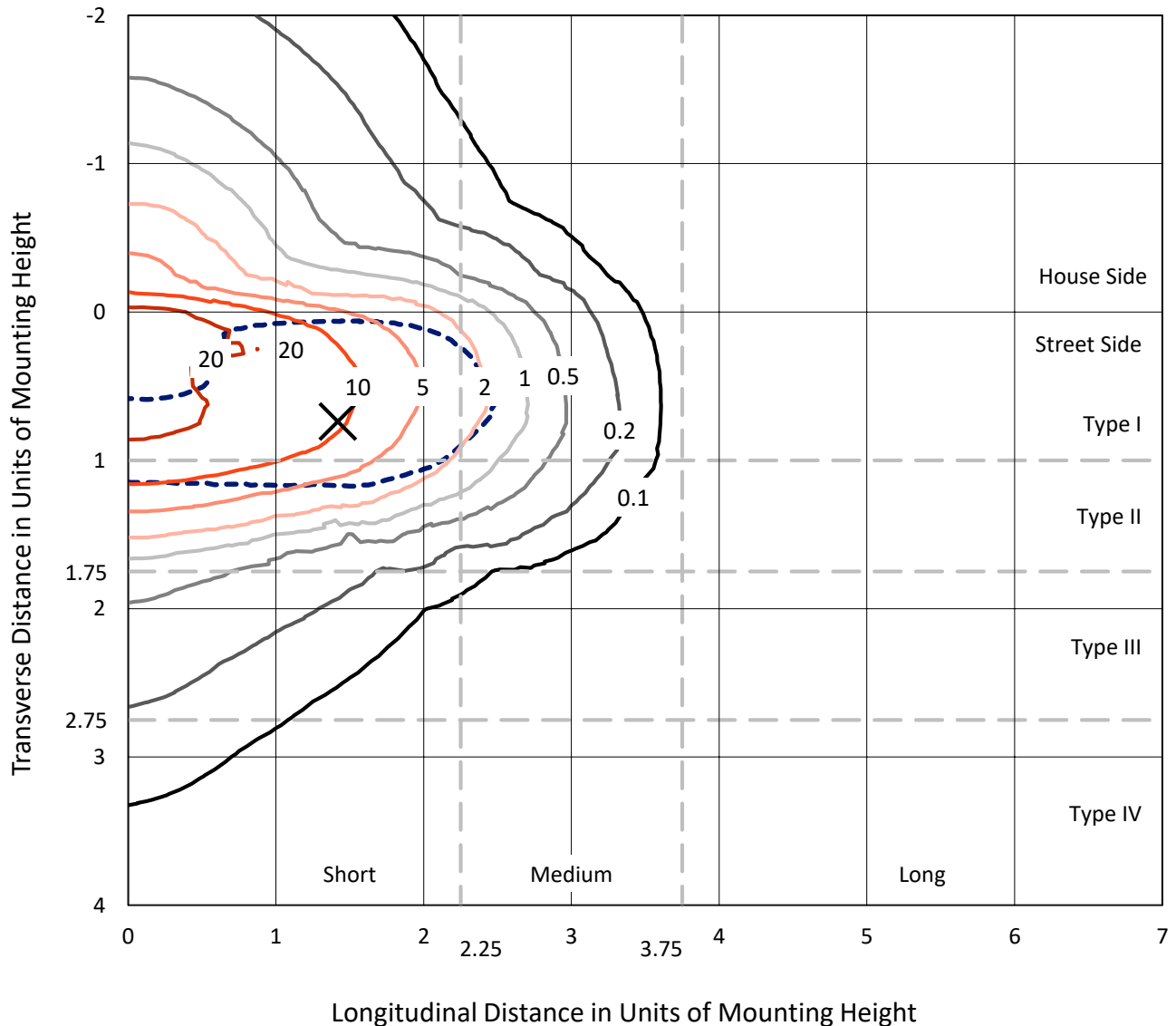


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

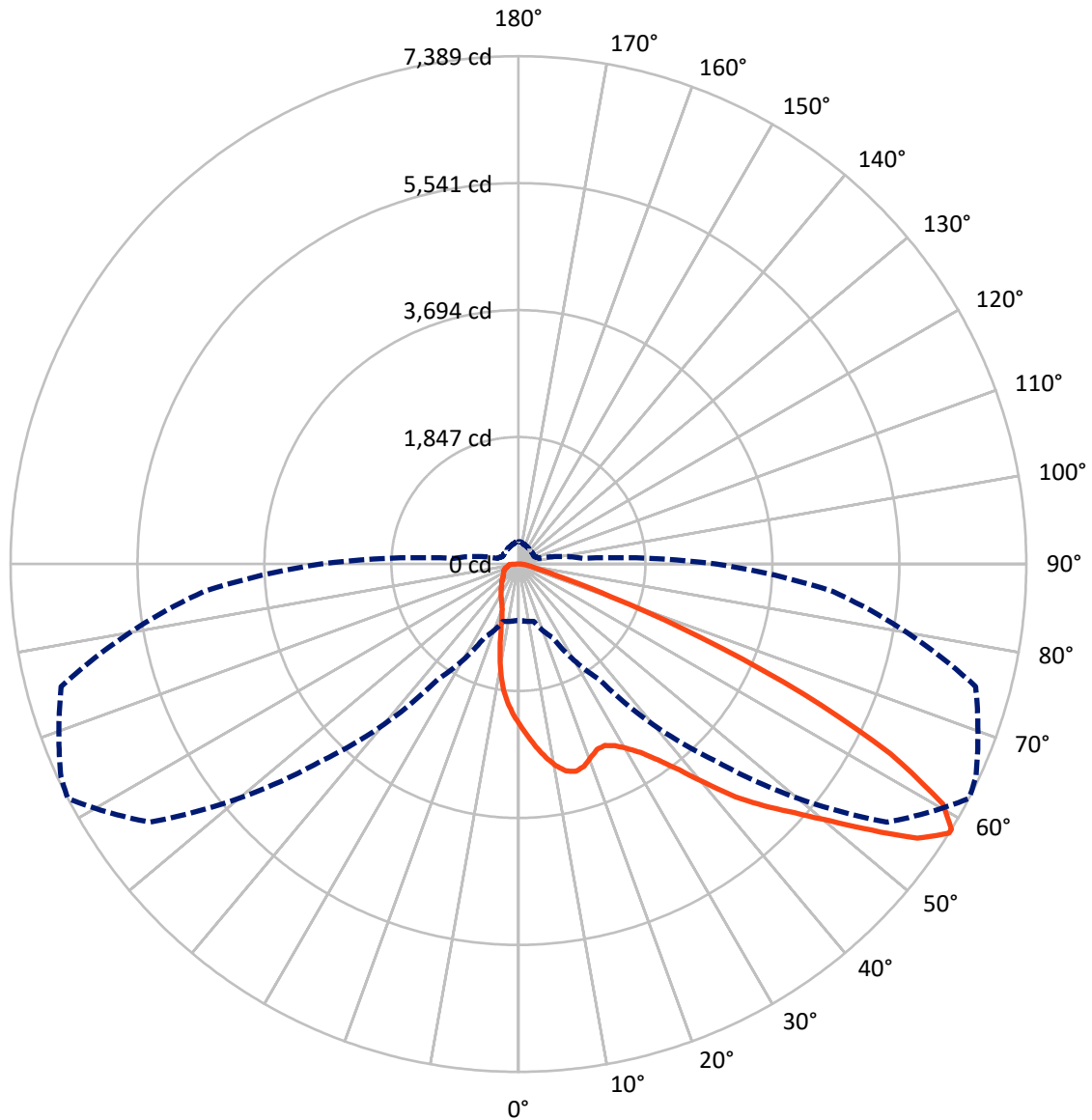


Based on 10 foot mounting height. Maximum calculated value = 28.5 fc
 Type II - Short - Full Cutoff

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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	1341.2	0.0	1341.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	7453.4	0.0	7453.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	8794.6	0.0	8794.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.9	2.4
10°-20°	534.1	6.1
20°-30°	863.3	9.8
30°-40°	1370.5	15.6
40°-50°	2005.4	22.8
50°-60°	2097.4	23.8
60°-70°	1239.2	14.1
70°-80°	349.1	4.0
80°-90°	126.7	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°	8794.6	100.0
0°-180°	8794.6	100.0



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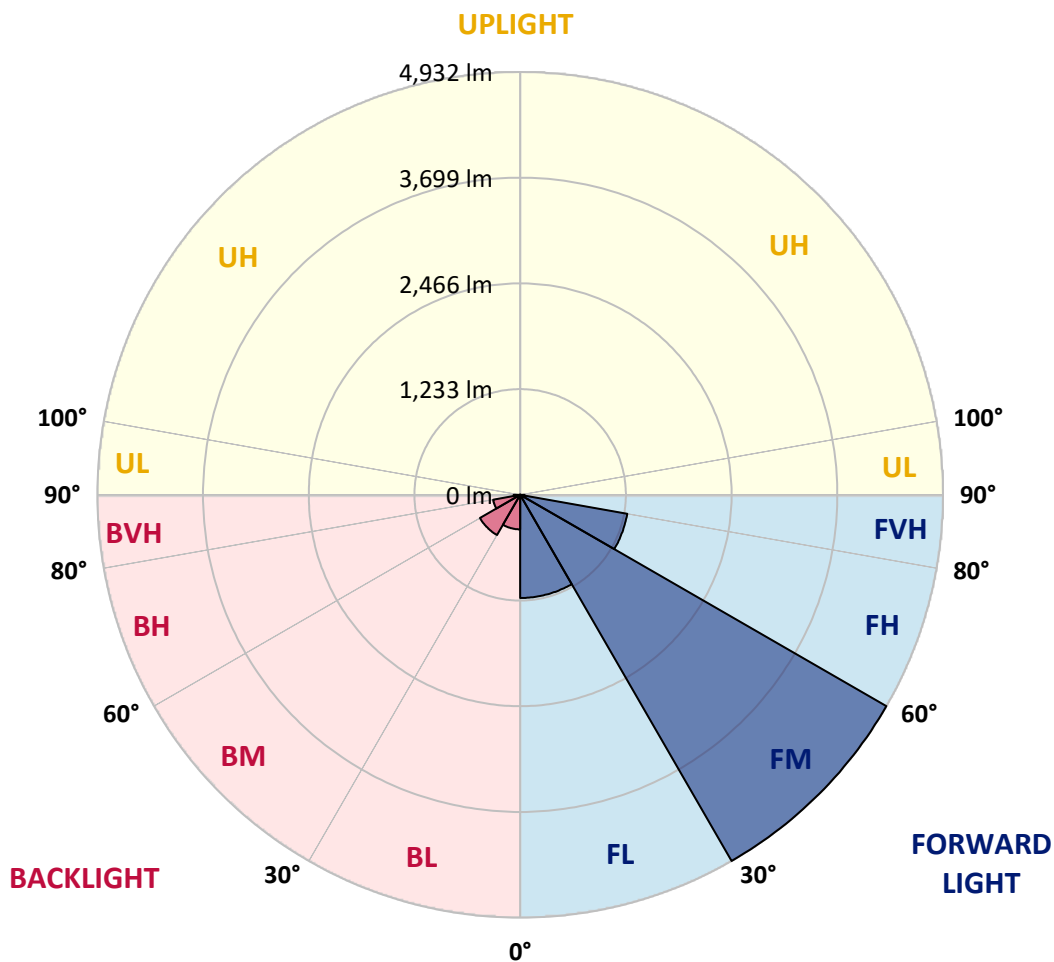
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1203.2	13.7			
FM	(30°-60°)	4931.9	56.1			
FH	(60°-80°)	1268.2	14.4			G1/1800
FVH	(80°-90°)	50.0	0.6			G1/100
BL	(0°-30°)	403.1	4.6	B1/500		
BM	(30°-60°)	541.3	6.2	B1/1000		
BH	(60°-80°)	320.0	3.6	B1/500		G1/500
BVH	(80°-90°)	76.7	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°	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0
2.5°	2669.4	2647.9	2634.3	2622.2	2606.5	2572.9	2527.8	2499.3	2484.8	2435.5	2377.1
5°	2931.2	2912.2	2898.1	2881.9	2853.7	2801.2	2728.3	2670.3	2641.7	2543.1	2426.4
7.5°	2869.9	2877.7	2902.2	2944.9	2981.3	2974.2	2909.3	2835.6	2797.9	2660.8	2483.5
10°	2500.5	2514.2	2556.5	2656.2	2817.7	2983.4	3033.8	2983.0	2944.9	2777.1	2542.4
12.5°	2426.4	2426.1	2429.3	2455.8	2551.8	2785.0	3038.0	3089.5	3066.6	2888.1	2602.4
15°	2456.6	2457.5	2455.0	2466.1	2495.9	2588.3	2911.3	3130.4	3146.6	2999.9	2664.6
17.5°	2536.1	2534.0	2524.5	2524.5	2535.3	2571.3	2762.3	3092.3	3166.8	3098.9	2719.2
20°	2669.4	2660.0	2634.7	2611.5	2599.9	2619.4	2701.0	3004.6	3131.6	3185.5	2764.3
22.5°	2830.9	2823.6	2782.5	2732.8	2692.7	2692.2	2732.5	2927.9	3070.7	3267.0	2802.4
25°	3039.8	3027.6	2966.8	2887.3	2816.9	2790.0	2801.2	2924.2	3037.6	3355.6	2836.4
27.5°	3284.9	3262.9	3190.9	3076.2	2972.6	2918.4	2902.2	2991.7	3067.8	3465.5	2883.6
30°	3582.2	3556.9	3464.6	3315.1	3169.0	3079.9	3045.5	3111.4	3168.1	3599.1	2959.4
32.5°	3920.6	3884.1	3777.3	3612.4	3420.3	3284.5	3228.6	3269.6	3314.7	3760.3	3054.2
35°	4388.1	4344.6	4190.1	3962.8	3745.8	3559.0	3469.6	3499.4	3543.3	4000.4	3191.2
37.5°	4707.0	4687.5	4584.9	4371.2	4135.1	3920.2	3781.8	3799.2	3824.1	4300.7	3366.8
40°	4704.1	4711.9	4714.0	4716.1	4555.4	4349.6	4200.9	4182.7	4177.7	4630.4	3566.5
42.5°	4468.5	4500.7	4605.1	4816.7	4914.4	4820.1	4683.8	4631.1	4605.1	5018.8	3778.1
45°	4107.8	4125.1	4320.6	4733.9	5098.3	5285.9	5182.9	5017.2	4970.0	5375.8	3953.6
47.5°	3921.8	3940.8	4063.8	4514.4	5096.3	5662.4	5722.0	5406.4	5322.0	5686.5	4105.3
50°	3479.1	3518.9	3673.7	4132.7	4910.3	5835.5	6285.7	5870.3	5695.5	5988.7	4257.2
52.5°	2666.2	2727.4	2901.0	3504.8	4438.6	5749.8	6736.7	6432.7	6185.8	6301.8	4387.8
55°	1681.8	1727.4	1873.1	2475.2	3550.7	5303.8	6907.6	7041.1	6821.5	6598.3	4500.7
57.5°	914.4	934.7	989.4	1366.6	2309.5	4317.7	6658.4	7387.2	7296.0	6850.1	4586.1
58°	818.3	832.0	866.0	1184.4	2048.3	4048.1	6547.8	7388.5	7342.8	6886.9	4592.7
60°	607.1	600.1	569.8	675.9	1140.0	2796.6	5879.4	7092.7	7226.5	6932.1	4560.3
62.5°	533.3	516.3	454.7	447.7	554.5	1288.3	4498.7	6075.6	6391.6	6674.5	4364.1
65°	501.2	482.9	403.4	377.6	400.0	544.9	2650.1	4556.7	4953.0	5893.5	3862.2
67.5°	477.1	453.5	370.6	335.5	337.1	360.3	1062.2	2869.9	3315.9	4474.6	3004.0
70°	453.8	428.2	342.9	302.3	292.8	284.9	422.4	1436.7	1841.3	2826.4	1915.3
72.5°	429.0	403.8	318.5	276.2	257.6	231.5	275.9	587.7	820.8	1337.2	868.8
75°	393.0	370.2	294.0	253.1	226.6	191.7	208.3	306.9	368.2	532.6	418.6
77.5°	348.7	330.0	266.7	234.0	200.9	155.8	160.3	212.8	236.1	304.8	248.9
80°	250.5	257.1	237.2	210.3	178.9	126.3	123.0	155.3	167.7	195.8	161.9
82.5°	176.0	179.8	196.3	171.8	147.8	99.4	90.7	109.3	116.8	128.8	87.4
85°	121.4	117.2	134.6	119.7	106.8	66.3	62.2	74.1	78.7	79.9	45.2
87.5°	72.9	72.9	77.9	64.1	57.6	34.3	33.6	42.2	45.2	43.0	24.9
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°	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0
2.5°	2342.3	2313.0	2250.4	2200.2	2137.0	2071.0	2034.2	1994.8	1967.9	1948.5	1979.6
5°	2360.1	2300.1	2170.9	2048.3	1912.9	1772.0	1665.2	1565.8	1496.7	1453.6	1494.2
7.5°	2388.3	2296.0	2090.2	1880.6	1637.4	1403.1	1193.5	1062.2	985.6	948.0	971.5
10°	2420.6	2289.3	1995.3	1653.2	1305.3	1010.1	853.5	800.6	783.1	776.1	779.4
12.5°	2447.5	2275.2	1879.0	1378.2	980.3	797.6	752.5	751.3	755.0	755.7	757.0
15°	2466.6	2254.6	1706.2	1091.6	784.0	726.8	724.3	731.8	738.8	741.6	743.3
17.5°	2479.3	2211.8	1511.1	863.1	702.4	692.5	698.3	707.7	715.2	717.3	718.9
20°	2478.2	2149.3	1278.8	719.8	658.0	658.0	668.0	675.5	675.9	673.4	674.6
22.5°	2465.3	2063.6	1053.5	643.5	618.8	625.7	635.6	628.7	599.6	580.7	581.9
25°	2443.7	1961.4	860.6	595.1	582.3	594.8	591.8	538.8	497.4	478.8	478.8
27.5°	2424.8	1840.4	712.4	552.8	545.8	561.2	509.8	461.8	444.4	435.6	432.7
30°	2411.1	1709.9	613.4	512.2	511.5	500.3	442.3	429.0	426.2	419.1	416.6
32.5°	2414.4	1577.8	549.9	476.6	479.5	428.2	410.0	412.9	410.4	402.9	399.7
35°	2441.8	1452.4	508.5	444.4	435.6	386.8	390.9	396.3	395.5	385.2	381.8
37.5°	2490.6	1333.5	481.2	417.5	380.2	366.1	372.7	381.1	378.9	371.8	369.5
40°	2541.8	1221.7	458.9	396.3	347.5	352.0	357.8	362.4	364.4	366.5	364.8
42.5°	2592.1	1104.9	431.5	374.8	333.7	338.8	341.3	345.8	357.0	364.8	364.4
45°	2621.9	995.1	403.4	344.1	323.0	325.9	324.3	333.4	347.0	359.9	360.3
47.5°	2654.9	909.9	381.1	316.0	312.7	314.8	309.8	318.9	331.3	347.0	348.7
50°	2695.1	858.9	363.2	293.6	298.6	298.6	297.3	305.7	323.0	341.3	344.6
52.5°	2740.7	849.0	348.3	277.5	284.5	284.0	285.3	297.8	316.8	334.6	337.5
55°	2796.2	875.8	332.1	265.4	270.8	272.5	276.6	290.7	306.9	327.2	328.4
57.5°	2860.7	930.6	319.3	256.0	258.4	263.8	270.5	283.2	300.7	323.0	324.3
58°	2871.6	942.1	317.3	255.1	256.0	262.1	269.6	282.1	299.4	323.8	325.1
60°	2872.0	980.7	312.7	251.3	246.4	256.7	265.0	277.5	297.3	326.8	329.7
62.5°	2770.1	980.3	309.3	246.0	236.5	249.3	258.9	273.4	295.3	333.7	339.6
65°	2439.3	890.8	293.6	237.8	228.5	242.6	253.5	270.5	301.0	364.4	368.2
67.5°	1907.9	730.1	264.2	226.2	218.3	236.1	250.1	269.9	307.3	371.4	374.0
70°	1261.4	546.2	231.9	212.8	207.4	228.2	251.8	284.0	300.3	356.6	350.0
72.5°	654.8	383.5	205.8	196.3	195.1	221.2	275.9	282.4	293.2	335.5	327.2
75°	343.8	266.3	183.1	178.1	180.1	219.5	325.5	275.0	284.0	320.9	336.8
77.5°	210.3	215.0	163.6	161.5	165.6	214.5	325.1	265.4	270.8	295.3	312.7
80°	140.8	174.4	148.7	149.0	152.0	196.3	291.9	250.5	254.8	279.1	296.9
82.5°	89.0	103.1	135.0	142.0	138.3	161.9	248.0	228.2	234.0	319.3	337.5
85°	45.2	64.7	117.2	136.6	124.7	113.5	201.3	200.1	202.9	230.2	240.7
87.5°	20.8	35.6	91.5	119.3	94.0	70.8	146.2	148.3	159.9	163.6	163.6
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)