

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: P299108

Luminaire Tested: **GLNA-AF-03-LED-E1-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-03-LED-E1-SL2-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17160.1 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

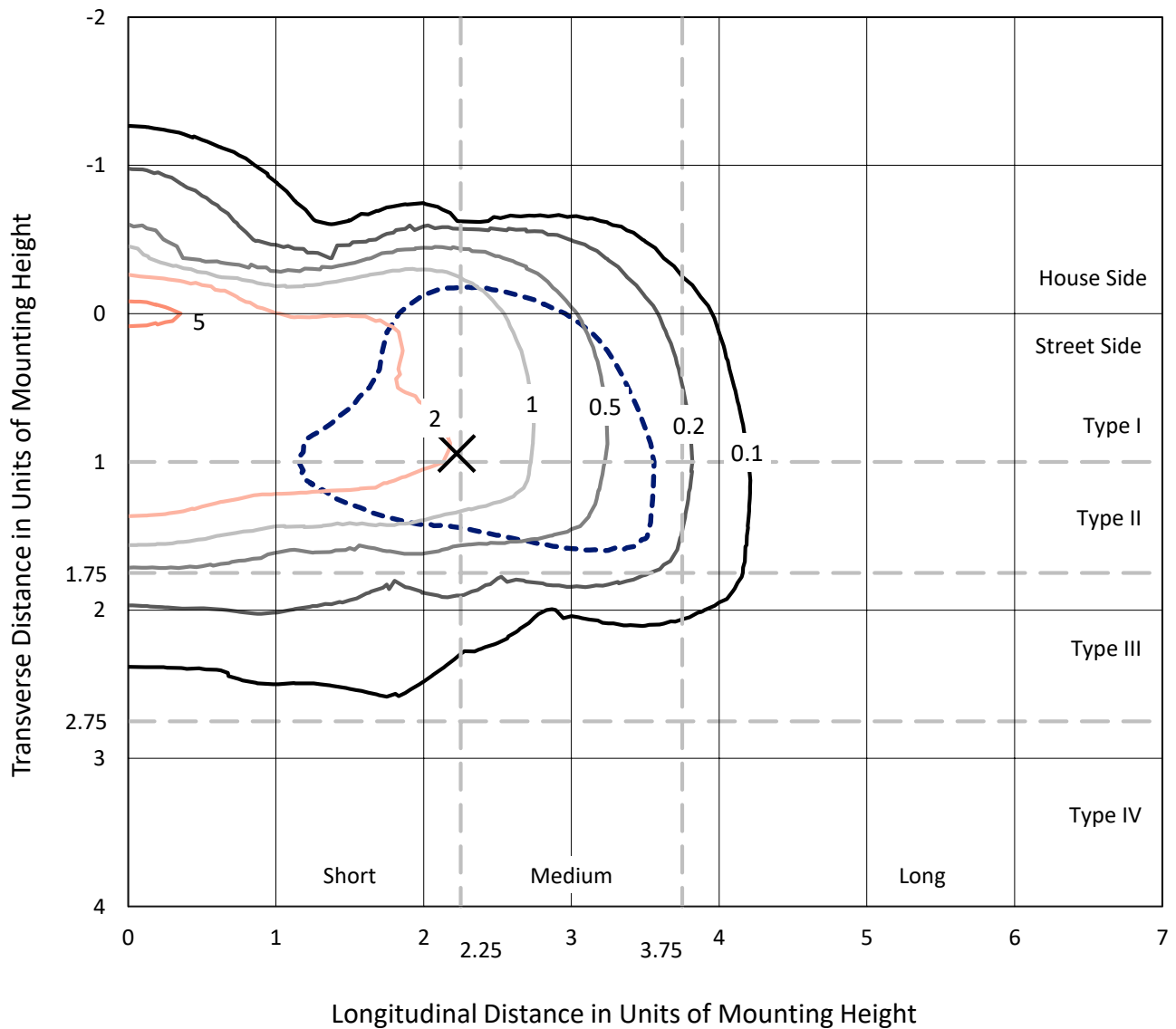
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

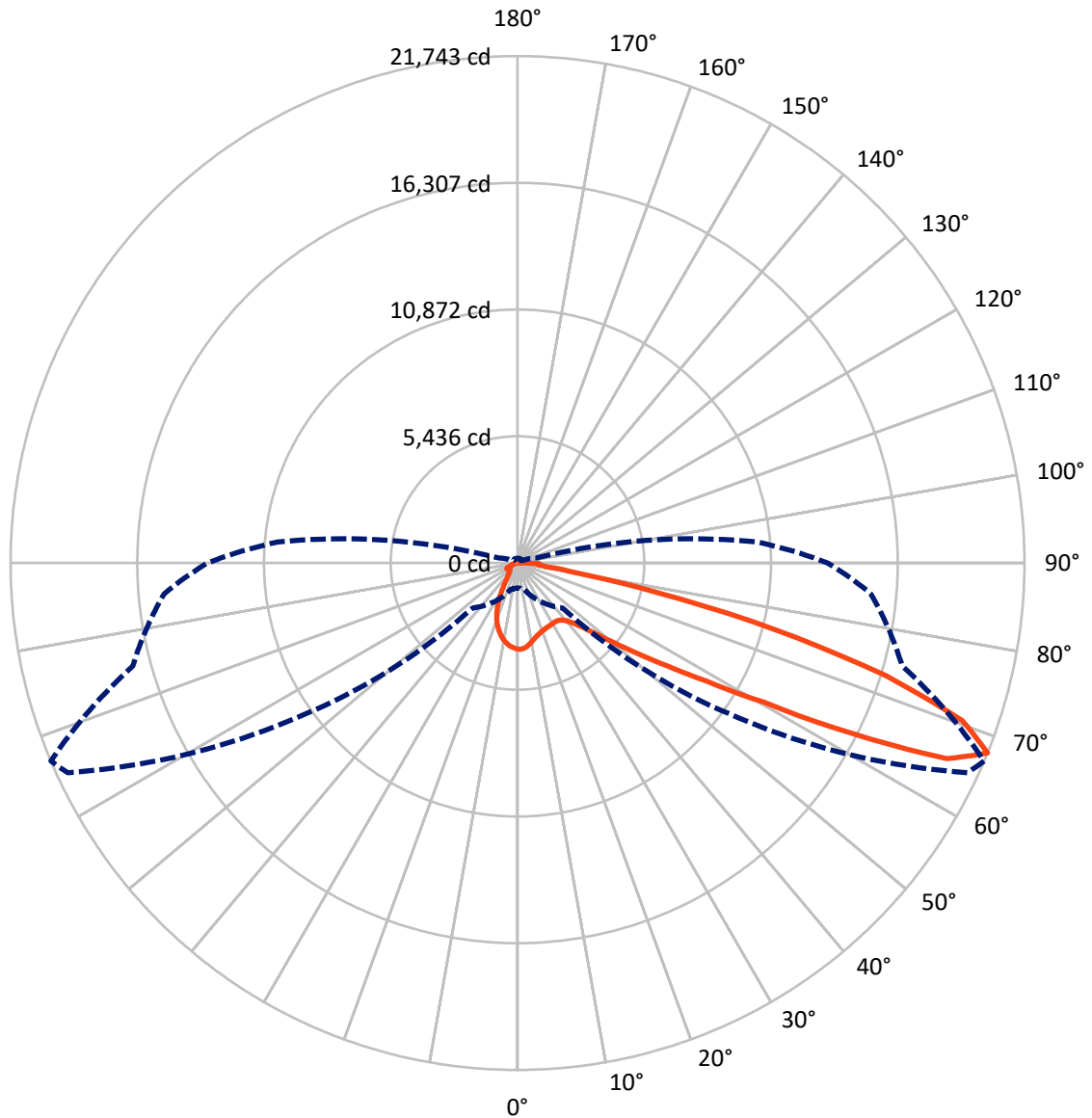
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2843.2	0.0	2843.2
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	14316.9	0.0	14316.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	17160.1	0.0	17160.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.8	1.8
10°-20°	730.7	4.3
20°-30°	990.4	5.8
30°-40°	1408.0	8.2
40°-50°	2355.7	13.7
50°-60°	3726.7	21.7
60°-70°	4747.4	27.7
70°-80°	2486.7	14.5
80°-90°	398.8	2.3
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°	17160.1	100.0
0°-180°	17160.1	100.0

Coefficient of Utilization



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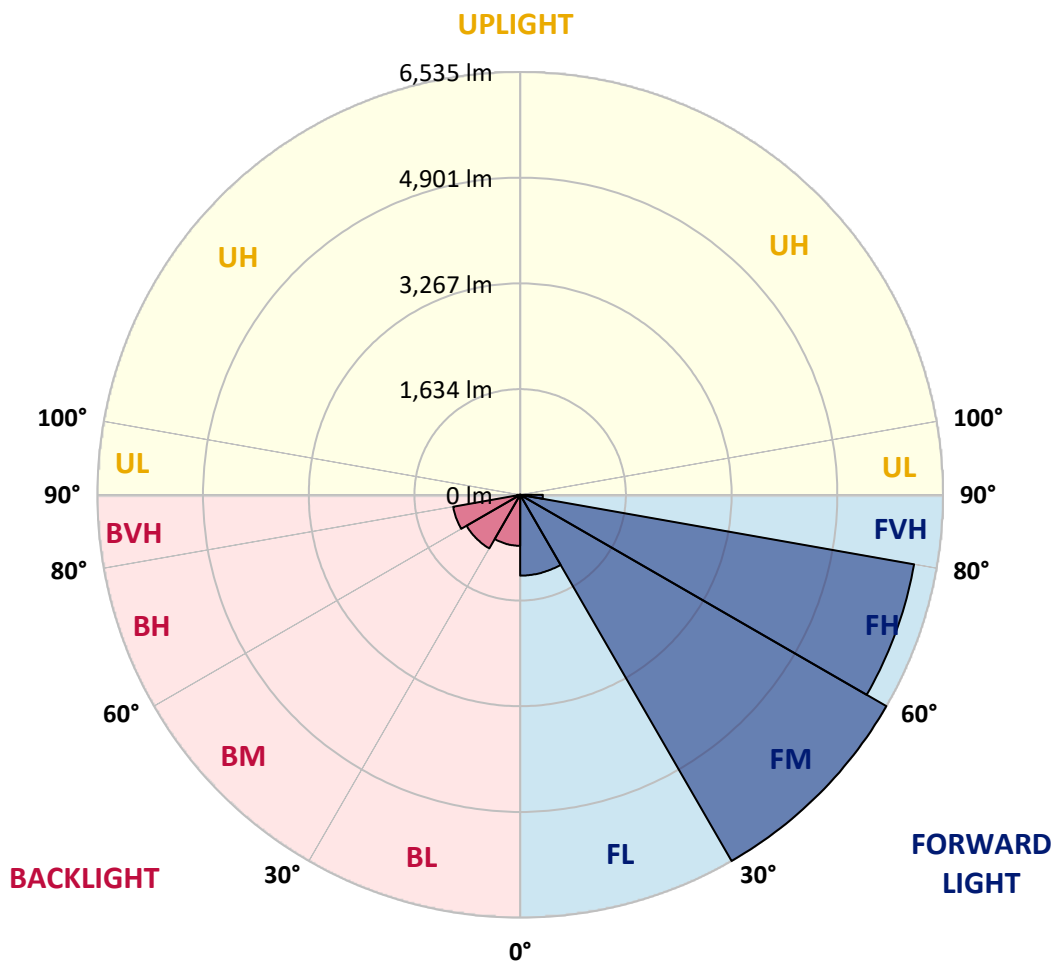
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1248.8	7.3			
FM (30°-60°)	6534.9	38.1			
FH (60°-80°)	6182.4	36.0			G3/7500
FVH (80°-90°)	350.7	2.0			G3/500
BL (0°-30°)	788.1	4.6	B2/1000		
BM (30°-60°)	955.4	5.6	B1/1000		
BH (60°-80°)	1051.6	6.1	B3/2500		G3/2500
BVH (80°-90°)	48.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4
2.5°	3549.1	3555.0	3573.6	3585.5	3638.8	3661.6	3677.7	3693.8	3696.3	3703.9	3696.3
5°	3176.7	3189.4	3224.1	3263.1	3366.3	3447.5	3533.0	3621.9	3637.9	3695.5	3711.6
7.5°	2888.2	2884.8	2913.6	2960.1	3065.9	3178.4	3328.2	3505.1	3539.8	3669.2	3731.9
10°	2677.5	2674.9	2705.4	2753.6	2854.3	2960.9	3130.2	3372.2	3421.3	3627.8	3751.3
12.5°	2521.8	2522.6	2553.1	2606.4	2708.8	2816.2	2988.0	3243.6	3306.2	3579.5	3771.6
15°	2418.5	2425.3	2449.8	2506.5	2606.4	2713.9	2882.3	3147.1	3217.4	3541.5	3794.5
17.5°	2383.8	2394.8	2403.3	2444.8	2530.2	2637.7	2802.7	3076.0	3150.5	3515.2	3814.8
20°	2416.0	2428.7	2412.6	2427.0	2481.1	2575.9	2740.1	3020.2	3096.3	3485.6	3817.3
22.5°	2553.9	2565.8	2518.4	2476.9	2473.5	2531.1	2688.5	2976.2	3054.9	3463.6	3818.2
25°	2796.8	2804.4	2724.9	2628.4	2534.5	2515.0	2652.1	2945.7	3029.5	3444.1	3802.1
27.5°	3094.7	3100.6	3009.2	2867.0	2678.3	2553.1	2639.4	2927.9	3015.1	3427.2	3775.0
30°	3456.8	3484.8	3362.1	3182.7	2907.6	2665.6	2664.8	2918.6	2999.0	3398.4	3721.7
32.5°	3827.5	3839.3	3754.7	3572.8	3216.5	2863.6	2735.9	2925.4	2994.8	3363.8	3654.0
35°	4203.2	4218.4	4163.4	4017.0	3638.8	3153.9	2874.6	2965.2	3021.0	3351.9	3606.6
37.5°	4689.8	4710.1	4633.9	4464.7	4152.4	3547.4	3105.7	3065.0	3101.4	3385.8	3592.2
40°	5459.0	5449.7	5227.1	4975.0	4714.3	4050.9	3435.7	3234.3	3255.4	3494.9	3636.2
42.5°	6354.3	6331.5	5948.1	5552.1	5332.1	4660.2	3872.3	3527.9	3523.7	3709.9	3791.1
45°	7068.5	7049.9	6704.7	6216.4	6040.4	5354.1	4436.8	3965.4	3934.1	4050.9	4077.1
47.5°	7455.3	7456.1	7257.2	6858.7	6854.4	6235.8	5162.0	4598.4	4544.2	4599.2	4571.3
50°	7319.9	7337.6	7316.5	7189.5	7597.4	7391.8	6108.9	5481.0	5371.9	5426.0	5318.5
52.5°	6664.9	6687.7	6813.0	7007.6	7909.7	8788.9	7500.1	6577.7	6450.8	6431.3	6312.0
55°	5503.9	5531.8	5787.3	6316.2	7649.9	9727.4	9695.2	7975.7	7773.4	7589.8	7539.0
57.5°	3793.6	3840.2	4251.4	5036.7	6809.6	10010.9	12309.2	9968.6	9557.3	8915.9	8927.7
60°	2138.4	2192.6	2677.5	3390.8	5113.8	9702.8	14297.9	12987.1	12118.8	10468.7	10556.7
62.5°	1359.9	1418.3	1786.4	2355.9	3068.4	8044.2	15112.8	17183.5	16080.9	12382.8	12469.2
65°	1100.9	1126.3	1299.8	1944.6	2228.1	4846.3	14494.2	20640.3	20229.1	14812.4	14409.6
67.5°	1074.7	1083.2	1172.9	1632.4	2136.7	2724.0	11561.2	21286.8	21743.0	17081.1	15217.7
70°	1062.0	1091.6	1321.8	1557.9	2046.2	2297.5	6947.5	19514.8	20235.0	17674.3	14142.2
72.5°	515.4	513.7	665.1	1409.0	2305.1	2383.0	3569.4	15789.8	16512.4	15312.5	11621.2
75°	415.5	380.0	363.0	516.2	2216.3	2460.8	2274.7	10864.7	11387.7	10266.4	7143.9
77.5°	394.3	352.0	322.4	323.3	936.8	2609.8	1926.9	6013.3	6165.6	4637.3	1957.3
80°	326.6	287.7	266.6	300.4	453.6	2485.4	2083.4	2721.5	2497.2	1139.0	651.6
82.5°	226.8	206.5	200.6	252.2	363.0	1771.2	2422.7	1462.3	1226.2	570.4	402.0
85°	144.7	123.5	137.1	183.6	282.6	817.5	2495.5	1139.9	906.3	362.2	226.8
87.5°	66.9	54.2	67.7	101.5	184.5	281.8	2374.5	1280.3	933.4	191.2	143.0
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°	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4	3701.4
2.5°	3703.1	3687.0	3674.3	3650.6	3624.4	3599.0	3576.2	3547.4	3538.9	3531.3	3543.2
5°	3714.9	3698.9	3652.3	3579.5	3499.1	3423.8	3348.5	3284.2	3244.4	3222.4	3235.1
7.5°	3732.7	3709.9	3613.4	3479.7	3335.0	3203.0	3066.7	2957.6	2877.2	2839.1	2850.1
10°	3748.8	3704.8	3547.4	3346.8	3135.3	2938.9	2724.0	2546.3	2414.3	2344.9	2361.8
12.5°	3755.6	3685.3	3455.1	3181.0	2890.7	2603.0	2286.5	2020.8	1831.2	1761.8	1747.5
15°	3762.3	3663.3	3353.6	2992.3	2595.4	2188.3	1744.9	1426.7	1269.3	1234.6	1227.0
17.5°	3764.0	3625.2	3238.5	2787.5	2249.3	1695.0	1193.2	990.9	991.8	1047.6	1054.4
20°	3746.2	3568.5	3098.9	2532.8	1834.6	1172.0	819.1	784.5	912.2	1051.9	1068.8
22.5°	3705.6	3493.2	2940.6	2235.7	1359.9	771.8	633.8	671.9	836.9	1007.9	1027.3
25°	3654.0	3401.8	2753.6	1891.3	900.4	551.7	531.4	578.0	689.7	803.9	814.9
27.5°	3583.8	3293.5	2543.8	1497.0	584.7	454.4	468.0	499.3	545.0	595.7	600.8
30°	3493.2	3164.0	2319.5	1091.6	441.7	408.7	428.2	445.1	464.6	493.4	495.9
32.5°	3389.1	3039.6	2089.3	754.0	391.8	385.0	400.3	408.7	424.0	441.7	443.4
35°	3302.0	2921.2	1850.7	533.1	370.6	367.3	377.4	380.8	395.2	414.7	416.3
37.5°	3252.1	2824.7	1604.4	429.9	356.3	351.2	357.1	357.1	377.4	406.2	410.4
40°	3255.4	2771.4	1358.2	388.4	344.4	337.6	338.5	338.5	364.7	396.0	398.6
42.5°	3347.7	2784.9	1139.9	372.3	335.1	327.5	323.3	325.8	347.8	368.1	369.8
45°	3564.3	2880.6	935.1	362.2	325.8	323.3	314.0	313.1	321.6	330.9	330.9
47.5°	3919.7	3069.3	796.3	355.4	318.2	317.3	306.3	295.3	294.5	297.9	297.9
50°	4497.7	3394.2	703.2	347.8	313.1	306.3	293.6	276.7	270.8	273.3	273.3
52.5°	5364.2	3973.9	667.7	337.6	302.1	291.1	276.7	259.8	254.7	255.6	255.6
55°	6500.7	4864.1	662.6	325.8	290.3	272.5	260.6	247.9	242.0	243.7	243.7
57.5°	7889.4	6095.4	753.1	307.2	274.2	253.9	247.1	238.6	234.4	236.9	236.1
60°	9577.6	7706.6	1117.0	287.7	258.1	236.9	236.9	230.2	226.8	229.3	228.5
62.5°	11522.2	9557.3	1570.6	273.3	241.2	223.4	226.8	223.4	220.0	221.7	220.9
65°	13246.8	10763.2	1470.7	262.3	224.3	210.7	216.6	214.9	212.4	214.1	213.2
67.5°	13296.8	10316.4	825.9	250.5	208.2	198.0	206.5	205.6	203.9	205.6	204.8
70°	11866.6	8711.1	465.4	228.5	191.2	182.8	194.6	193.8	192.1	195.5	194.6
72.5°	9507.4	6321.3	340.2	201.4	174.3	166.7	180.2	179.4	179.4	184.5	181.9
75°	5470.9	3252.9	271.6	172.6	156.6	150.6	162.5	163.3	165.0	171.8	166.7
77.5°	1559.6	1013.8	221.7	146.4	134.6	132.0	143.9	145.6	146.4	154.0	147.2
80°	579.7	467.1	182.8	122.7	110.0	110.9	121.9	124.4	125.2	132.9	124.4
82.5°	369.8	308.0	148.1	94.8	86.3	85.5	99.0	102.4	102.4	103.2	98.2
85°	215.8	184.5	111.7	68.5	60.9	58.4	73.6	79.5	77.0	75.3	71.9
87.5°	144.7	126.9	68.5	38.1	33.0	31.3	43.2	47.4	45.7	43.2	40.6
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)