

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: P191072

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191072
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: GLEON-AF-04-LED-E1-SL2-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15853.7 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

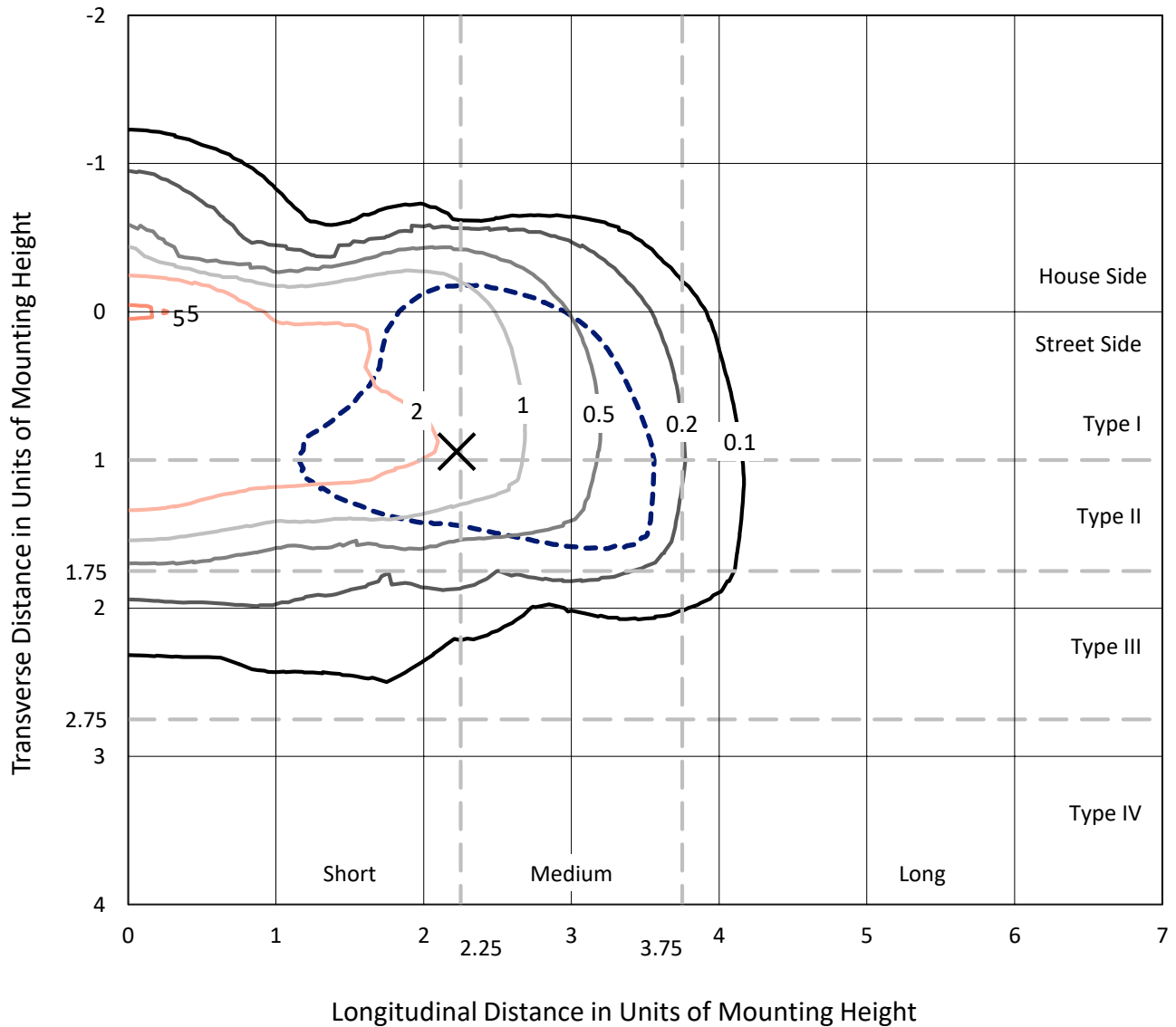
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

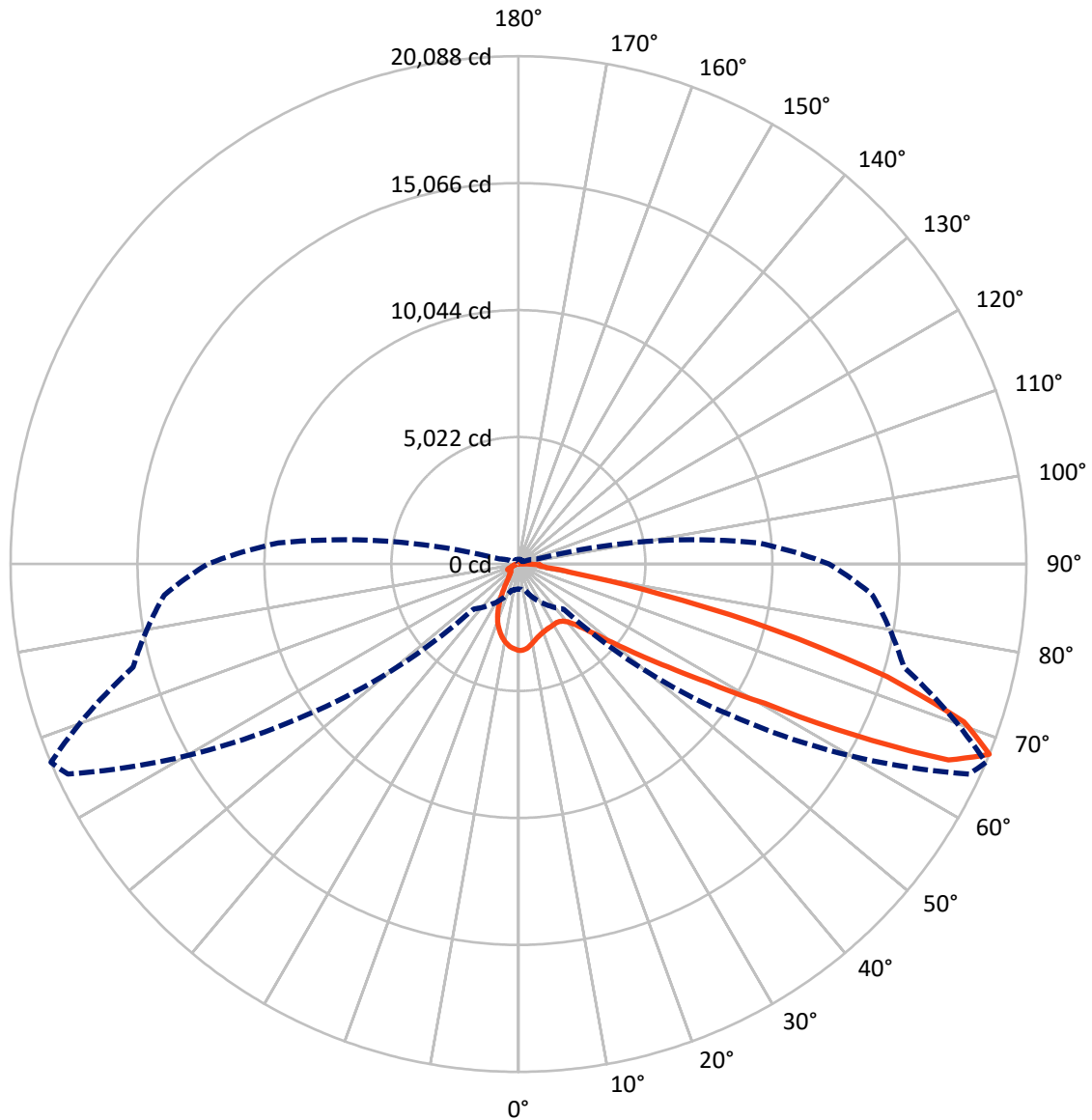
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	2626.8	0.0	2626.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	13226.9	0.0	13226.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	15853.7	0.0	15853.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.7	1.8
10°-20°	675.0	4.3
20°-30°	915.0	5.8
30°-40°	1300.8	8.2
40°-50°	2176.3	13.7
50°-60°	3442.9	21.7
60°-70°	4386.0	27.7
70°-80°	2297.3	14.5
80°-90°	368.4	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°	15853.7	100.0
0°-180°	15853.7	100.0



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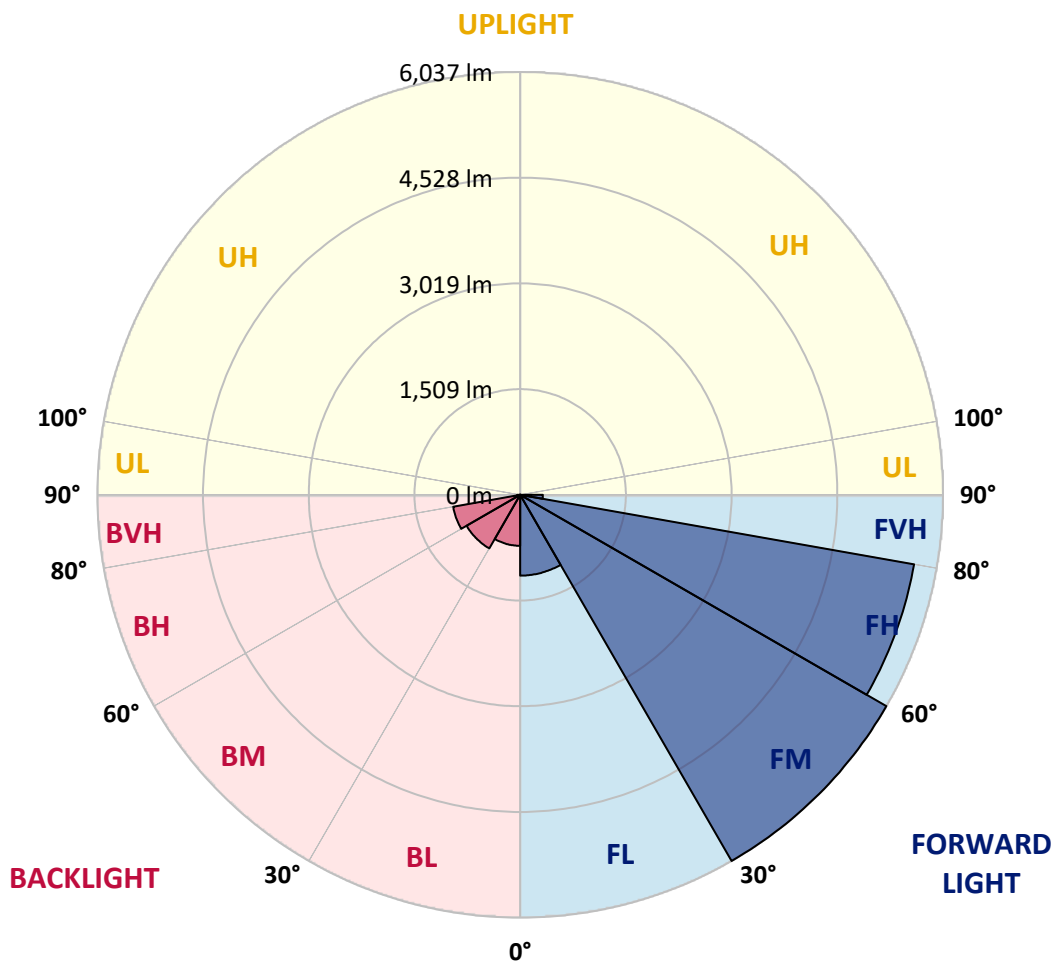
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1153.8	7.3			
FM	(30°-60°)	6037.4	38.1			
FH	(60°-80°)	5711.7	36.0			G3/7500
FVH	(80°-90°)	324.0	2.0			G3/500
BL	(0°-30°)	728.1	4.6	B2/1000		
BM	(30°-60°)	882.7	5.6	B1/1000		
BH	(60°-80°)	971.6	6.1	B2/1000		G2/1000
BVH	(80°-90°)	44.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3419.6	3419.6	3419.6	3419.6	3419.6	3419.6	3419.6	3419.6	3419.6	3419.6	3419.6
2.5°	3278.9	3284.4	3301.6	3312.5	3361.7	3382.9	3397.7	3412.6	3414.9	3422.0	3414.9
5°	2934.8	2946.6	2978.6	3014.6	3110.0	3185.1	3264.0	3346.1	3361.0	3414.1	3429.0
7.5°	2668.3	2665.2	2691.8	2734.8	2832.4	2936.5	3074.8	3238.3	3270.3	3389.9	3447.8
10°	2473.6	2471.2	2499.4	2544.0	2637.1	2735.6	2891.9	3115.5	3160.8	3351.6	3465.8
12.5°	2329.8	2330.6	2358.7	2407.9	2502.5	2601.9	2760.5	2996.6	3054.5	3307.0	3484.5
15°	2234.4	2240.7	2263.3	2315.7	2407.9	2507.3	2662.8	2907.5	2972.4	3271.8	3505.6
17.5°	2202.3	2212.5	2220.3	2258.7	2337.5	2436.9	2589.3	2841.9	2910.6	3247.6	3524.4
20°	2232.1	2243.7	2228.9	2242.2	2292.2	2379.8	2531.5	2790.2	2860.6	3220.2	3526.7
22.5°	2359.4	2370.4	2326.6	2288.3	2285.2	2338.4	2483.8	2749.6	2822.3	3199.9	3527.4
25°	2583.9	2590.9	2517.4	2428.3	2341.5	2323.5	2450.2	2721.5	2798.9	3181.9	3512.6
27.5°	2859.0	2864.6	2780.1	2648.7	2474.4	2358.7	2438.4	2705.0	2785.6	3166.3	3487.6
30°	3193.7	3219.4	3106.1	2940.4	2686.3	2462.7	2461.9	2696.4	2770.7	3139.7	3438.3
32.5°	3536.1	3547.1	3468.8	3300.8	2971.7	2645.7	2527.6	2702.7	2766.8	3107.6	3375.8
35°	3883.2	3897.2	3846.5	3711.3	3361.7	2913.8	2655.8	2739.5	2791.0	3096.7	3332.1
37.5°	4332.7	4351.5	4281.2	4124.7	3836.3	3277.3	2869.2	2831.7	2865.3	3128.0	3318.8
40°	5043.5	5034.8	4829.1	4596.2	4355.4	3742.5	3174.1	2988.0	3007.6	3228.8	3359.4
42.5°	5870.5	5849.4	5495.3	5129.4	4926.1	4305.4	3577.6	3259.3	3255.4	3427.4	3502.5
45°	6530.4	6513.2	6194.2	5743.2	5580.5	4946.5	4099.0	3663.5	3634.6	3742.5	3766.7
47.5°	6887.6	6888.4	6704.7	6336.5	6332.6	5761.1	4769.0	4248.3	4198.3	4249.1	4223.3
50°	6762.6	6779.0	6759.5	6642.2	7019.0	6829.0	5643.8	5063.7	4962.8	5012.9	4913.6
52.5°	6157.4	6178.6	6294.3	6474.2	7307.6	8119.8	6929.2	6076.9	5959.7	5941.7	5831.4
55°	5084.9	5110.7	5346.8	5835.3	7067.5	8986.8	8957.1	7368.5	7181.6	7012.0	6965.1
57.5°	3504.8	3547.8	3927.8	4653.3	6291.1	9248.7	11372.1	9209.6	8829.7	8237.1	8248.1
60°	1975.6	2025.6	2473.6	3132.7	4724.4	8964.1	13209.4	11998.3	11196.2	9671.7	9753.0
62.5°	1256.4	1310.3	1650.4	2176.5	2834.8	7431.8	13962.2	15875.3	14856.6	11440.1	11519.9
65°	1017.1	1040.5	1200.8	1796.6	2058.5	4477.4	13390.7	19068.9	18689.0	13684.6	13312.5
67.5°	992.9	1000.8	1083.6	1508.1	1974.1	2516.7	10680.9	19666.2	20087.6	15780.7	14059.1
70°	981.1	1008.5	1221.2	1439.3	1890.4	2122.6	6418.6	18029.1	18694.4	16328.8	13065.4
72.5°	476.1	474.5	614.5	1301.7	2129.6	2201.6	3297.7	14587.7	15255.3	14146.7	10736.5
75°	383.9	351.1	335.4	476.9	2047.5	2273.5	2101.4	10037.6	10520.7	9484.8	6600.0
77.5°	364.3	325.2	297.9	298.6	865.4	2411.1	1780.1	5555.4	5696.2	4284.3	1808.3
80°	301.8	265.8	246.2	277.5	419.0	2296.1	1924.8	2514.3	2307.1	1052.3	602.0
82.5°	209.5	190.8	185.3	232.9	335.4	1636.3	2238.3	1350.9	1132.8	526.9	371.3
85°	133.7	114.2	126.6	169.6	261.2	755.2	2305.5	1053.1	837.3	334.6	209.5
87.5°	61.8	50.0	62.5	93.8	170.4	260.3	2193.7	1182.8	862.3	176.7	132.2
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°	3419.6	3419.6	3419.6	3419.6	3419.6	3419.6	3419.6	3419.6	3419.6	3419.6	3419.6
2.5°	3421.2	3406.3	3394.6	3372.7	3348.4	3325.0	3303.9	3277.3	3269.5	3262.5	3273.4
5°	3432.1	3417.3	3374.3	3307.0	3232.7	3163.2	3093.6	3034.2	2997.5	2977.1	2988.9
7.5°	3448.6	3427.4	3338.3	3214.7	3081.1	2959.1	2833.3	2732.4	2658.1	2622.9	2633.1
10°	3463.4	3422.7	3277.3	3092.1	2896.6	2715.2	2516.7	2352.5	2230.4	2166.4	2182.1
12.5°	3469.6	3404.8	3192.1	2938.8	2670.6	2404.9	2112.4	1867.0	1691.9	1627.7	1614.4
15°	3475.9	3384.4	3098.3	2764.4	2397.8	2021.8	1612.1	1318.1	1172.7	1140.7	1133.6
17.5°	3477.4	3349.2	2991.9	2575.3	2078.0	1565.9	1102.3	915.5	916.3	967.9	974.2
20°	3461.1	3296.9	2862.9	2339.9	1694.9	1082.8	756.8	724.8	842.8	971.8	987.5
22.5°	3423.5	3227.3	2716.8	2065.5	1256.4	713.0	585.5	620.7	773.2	931.1	949.1
25°	3375.8	3142.8	2544.0	1747.3	831.9	509.7	491.0	534.0	637.2	742.7	752.9
27.5°	3310.9	3042.8	2350.1	1383.0	540.2	419.8	432.3	461.2	503.5	550.3	555.1
30°	3227.3	2923.2	2142.9	1008.5	408.1	377.6	395.6	411.2	429.2	455.8	458.2
32.5°	3131.2	2808.2	1930.3	696.6	362.0	355.7	369.8	377.6	391.7	408.1	409.7
35°	3050.5	2698.7	1709.8	492.6	342.4	339.3	348.7	351.8	365.1	383.1	384.6
37.5°	3004.5	2609.6	1482.3	397.1	329.2	324.5	329.9	329.9	348.7	375.2	379.2
40°	3007.6	2560.4	1254.8	358.9	318.2	311.9	312.7	312.7	337.0	365.9	368.3
42.5°	3092.8	2572.9	1053.1	344.0	309.5	302.6	298.6	301.0	321.3	340.1	341.7
45°	3293.0	2661.2	863.9	334.6	301.0	298.6	290.0	289.3	297.1	305.7	305.7
47.5°	3621.3	2835.6	735.7	328.4	294.0	293.2	283.1	272.8	272.1	275.2	275.2
50°	4155.3	3135.9	649.7	321.3	289.3	283.1	271.3	255.6	250.2	252.6	252.6
52.5°	4955.9	3671.4	616.8	311.9	279.1	268.9	255.6	240.0	235.3	236.1	236.1
55°	6005.8	4493.8	612.1	301.0	268.1	251.7	240.8	229.0	223.6	225.2	225.2
57.5°	7288.7	5631.3	695.8	283.8	253.3	234.6	228.3	220.4	216.6	218.9	218.1
60°	8848.4	7119.8	1032.0	265.8	238.4	218.9	218.9	212.7	209.5	211.9	211.1
62.5°	10645.0	8829.7	1451.1	252.6	222.8	206.4	209.5	206.4	203.3	204.8	204.1
65°	12238.4	9943.7	1358.8	242.3	207.1	194.7	200.2	198.6	196.2	197.8	197.0
67.5°	12284.4	9530.9	763.0	231.4	192.3	182.9	190.8	190.0	188.4	190.0	189.2
70°	10963.2	8047.9	429.9	211.1	176.7	168.9	179.8	179.0	177.5	180.6	179.8
72.5°	8783.6	5840.0	314.3	186.1	161.0	154.1	166.5	165.7	165.7	170.4	168.1
75°	5054.4	3005.2	250.9	159.5	144.6	139.1	150.1	150.9	152.4	158.7	154.1
77.5°	1440.8	936.6	204.8	135.2	124.3	121.9	132.9	134.5	135.2	142.3	136.1
80°	535.5	431.6	168.9	113.3	101.7	102.4	112.6	114.9	115.7	122.8	114.9
82.5°	341.7	284.6	136.8	87.6	79.8	79.0	91.5	94.6	94.6	95.3	90.7
85°	199.4	170.4	103.2	63.3	56.3	53.9	68.0	73.4	71.1	69.6	66.5
87.5°	133.7	117.2	63.3	35.2	30.5	28.9	39.9	43.8	42.2	39.9	37.5
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)