

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: P193614

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193614
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-06-LED-E1-SL2-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 18751 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 193
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

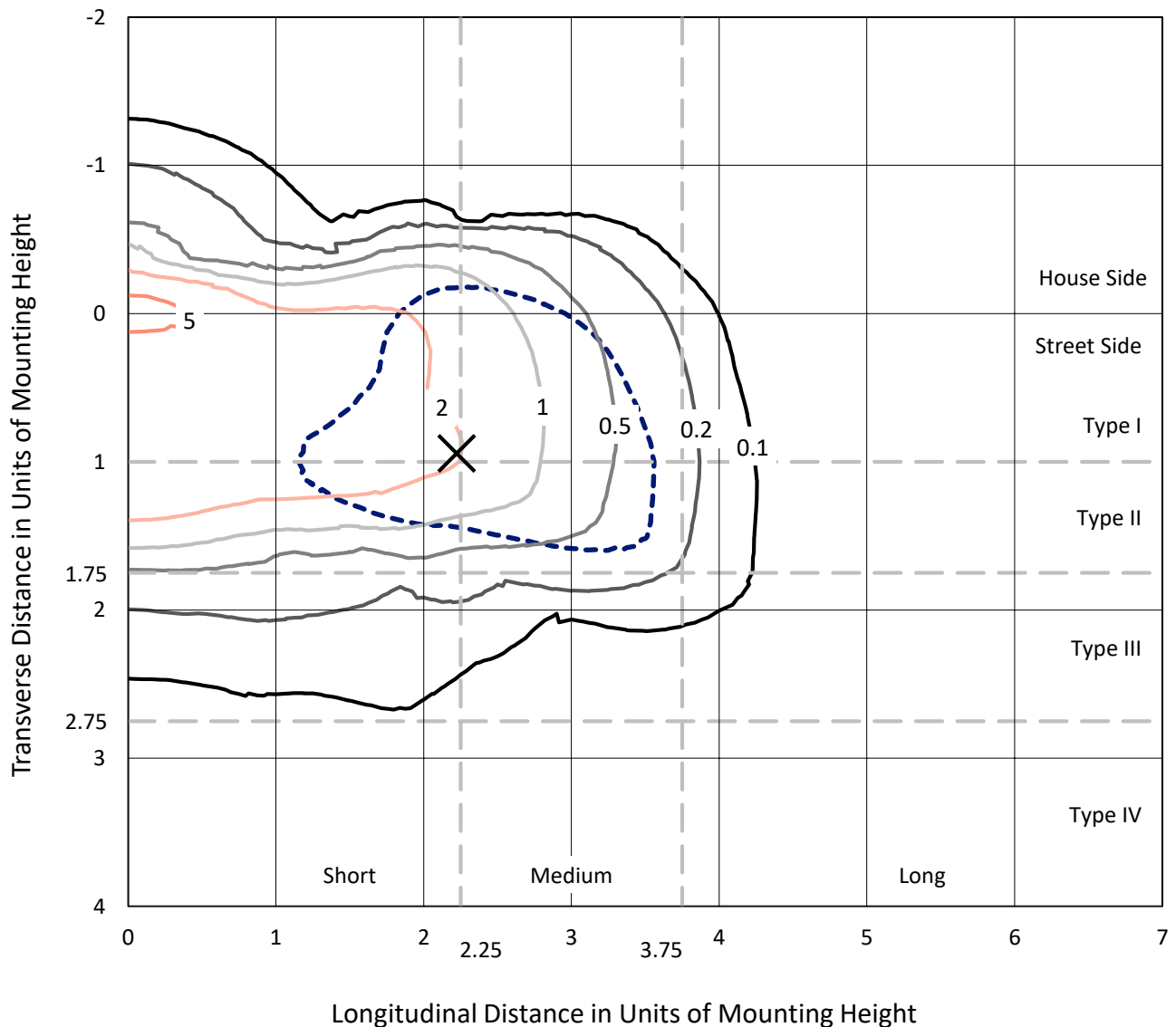


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Iso-Footcandle Lines of Horizontal Illumination

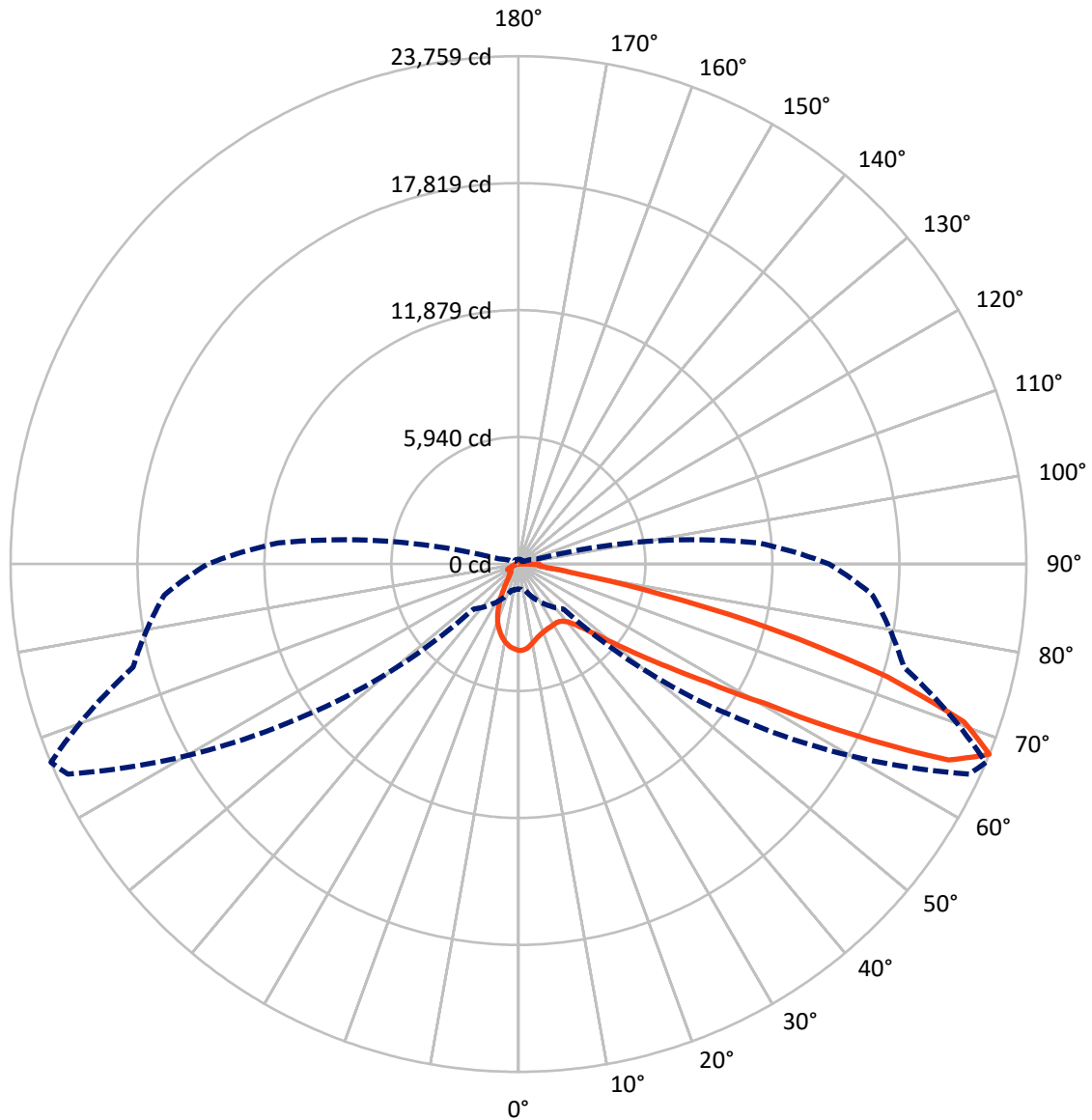
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	3106.8	0.0	3106.8
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	15644.2	0.0	15644.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	18751.0	0.0	18751.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.1	1.8
10°-20°	798.4	4.3
20°-30°	1082.3	5.8
30°-40°	1538.5	8.2
40°-50°	2574.1	13.7
50°-60°	4072.1	21.7
60°-70°	5187.5	27.7
70°-80°	2717.2	14.5
80°-90°	435.8	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°	18751.0	100.0
0°-180°	18751.0	100.0



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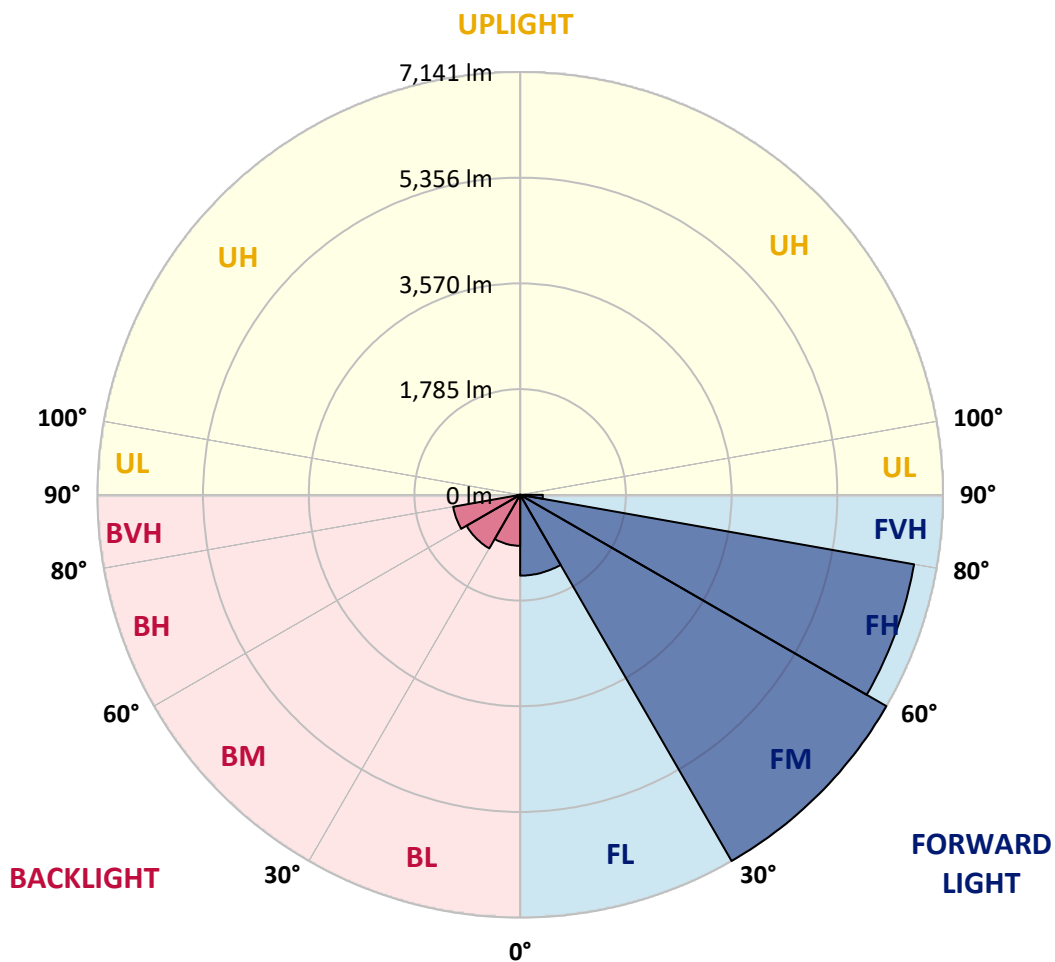
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1364.6	7.3			
FM (30°-60°)	7140.8	38.1			
FH (60°-80°)	6755.6	36.0			G3/7500
FVH (80°-90°)	383.2	2.0			G3/500
BL (0°-30°)	861.1	4.6	B2/1000		
BM (30°-60°)	1044.0	5.6	B2/2500		
BH (60°-80°)	1149.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	52.6	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°	4044.5	4044.5	4044.5	4044.5	4044.5	4044.5	4044.5	4044.5	4044.5	4044.5	4044.5
2.5°	3878.1	3884.6	3904.9	3917.9	3976.1	4001.1	4018.7	4036.2	4039.0	4047.3	4039.0
5°	3471.2	3485.1	3523.0	3565.6	3678.4	3767.1	3860.5	3957.6	3975.2	4038.1	4055.6
7.5°	3155.9	3152.2	3183.7	3234.5	3350.1	3473.1	3636.8	3830.0	3867.9	4009.4	4077.8
10°	2925.7	2922.9	2956.2	3008.9	3118.9	3235.5	3420.4	3684.8	3738.5	3964.1	4099.1
12.5°	2755.5	2756.5	2789.8	2848.0	2959.9	3077.3	3265.0	3544.3	3612.7	3911.4	4121.3
15°	2642.7	2650.1	2676.9	2738.9	2848.0	2965.4	3149.5	3438.9	3515.6	3869.8	4146.3
17.5°	2604.8	2616.8	2626.1	2671.4	2764.8	2882.2	3062.5	3361.2	3442.6	3841.1	4168.5
20°	2640.0	2653.8	2636.3	2652.0	2711.2	2814.7	2994.1	3300.2	3383.4	3808.8	4171.2
22.5°	2790.7	2803.6	2751.8	2706.5	2702.8	2765.7	2937.7	3252.1	3338.1	3784.7	4172.2
25°	3056.1	3064.4	2977.5	2872.1	2769.4	2748.1	2897.9	3218.8	3310.3	3763.4	4154.6
27.5°	3381.6	3388.0	3288.2	3132.8	2926.6	2789.8	2884.1	3199.4	3294.6	3744.9	4125.0
30°	3777.3	3807.8	3673.7	3477.7	3177.2	2912.7	2911.8	3189.2	3277.1	3713.5	4066.7
32.5°	4182.3	4195.3	4102.8	3904.0	3514.7	3129.1	2989.5	3196.6	3272.4	3675.6	3992.8
35°	4592.9	4609.5	4549.4	4389.4	3976.1	3446.3	3141.1	3240.1	3301.1	3662.7	3941.0
37.5°	5124.6	5146.8	5063.5	4878.6	4537.4	3876.3	3393.6	3349.2	3388.9	3699.6	3925.3
40°	5965.1	5954.9	5711.7	5436.2	5151.4	4426.4	3754.2	3534.1	3557.2	3818.9	3973.3
42.5°	6943.4	6918.4	6499.6	6066.8	5826.4	5092.2	4231.3	3855.0	3850.4	4053.8	4142.6
45°	7723.8	7703.5	7326.2	6792.7	6600.4	5850.4	4848.1	4333.0	4298.8	4426.4	4455.1
47.5°	8146.4	8147.3	7930.0	7494.5	7489.9	6814.0	5640.5	5024.7	4965.5	5025.6	4995.1
50°	7998.5	8017.9	7994.8	7856.1	8301.8	8077.1	6675.3	5989.1	5869.9	5929.0	5811.6
52.5°	7282.8	7307.7	7444.6	7657.3	8643.0	9603.7	8195.4	7187.5	7048.8	7027.6	6897.2
55°	6014.1	6044.6	6323.9	6901.8	8359.1	10629.2	10594.0	8715.1	8494.1	8293.4	8238.0
57.5°	4145.3	4196.2	4645.6	5503.7	7440.9	10938.9	13450.4	10892.7	10443.3	9742.4	9755.4
60°	2336.7	2395.8	2925.7	3705.2	5587.8	10602.4	15623.4	14191.0	13242.3	11439.2	11535.4
62.5°	1486.0	1549.8	1952.0	2574.3	3352.9	8790.0	16513.8	18776.5	17571.7	13530.8	13625.1
65°	1203.0	1230.7	1420.3	2124.9	2434.7	5295.6	15837.9	22553.8	22104.4	16185.6	15745.4
67.5°	1174.3	1183.6	1281.6	1783.7	2334.8	2976.5	12633.0	23260.3	23758.7	18664.6	16628.5
70°	1160.5	1192.8	1444.3	1702.3	2235.9	2510.5	7591.6	21324.0	22110.9	19312.8	15453.2
72.5°	563.1	561.3	726.8	1539.6	2518.8	2603.9	3900.3	17253.6	18043.3	16732.1	12698.6
75°	454.0	415.2	396.7	564.1	2421.7	2689.0	2485.5	11872.0	12443.4	11218.2	7806.1
77.5°	430.9	384.7	352.3	353.2	1023.6	2851.7	2105.5	6570.8	6737.2	5067.2	2138.8
80°	356.9	314.4	291.3	328.3	495.6	2715.8	2276.6	2973.8	2728.7	1244.6	712.0
82.5°	247.8	225.6	219.1	275.6	396.7	1935.4	2647.4	1597.8	1339.9	623.2	439.2
85°	158.1	135.0	149.8	200.7	308.8	893.2	2726.9	1245.5	990.3	395.8	247.8
87.5°	73.0	59.2	74.0	111.0	201.6	307.9	2594.6	1399.0	1019.9	209.0	156.3
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°	4044.5	4044.5	4044.5	4044.5	4044.5	4044.5	4044.5	4044.5	4044.5	4044.5	4044.5
2.5°	4046.4	4028.8	4015.0	3989.1	3960.4	3932.7	3907.7	3876.3	3867.0	3858.7	3871.6
5°	4059.3	4041.8	3990.9	3911.4	3823.5	3741.3	3659.0	3588.7	3545.2	3521.2	3535.0
7.5°	4078.8	4053.8	3948.4	3802.3	3644.2	3499.9	3351.0	3231.8	3143.9	3102.3	3114.3
10°	4096.3	4048.2	3876.3	3657.1	3425.9	3211.4	2976.5	2782.4	2638.1	2562.3	2580.8
12.5°	4103.7	4027.0	3775.5	3475.9	3158.7	2844.3	2498.5	2208.1	2001.0	1925.2	1909.5
15°	4111.1	4002.9	3664.5	3269.7	2836.0	2391.2	1906.7	1559.0	1387.0	1349.1	1340.8
17.5°	4113.0	3961.3	3538.7	3045.9	2457.8	1852.1	1303.8	1082.8	1083.7	1144.8	1152.1
20°	4093.6	3899.4	3386.2	2767.6	2004.7	1280.7	895.1	857.2	996.8	1149.4	1167.9
22.5°	4049.2	3817.1	3213.3	2443.0	1486.0	843.3	692.6	734.2	914.5	1101.3	1122.6
25°	3992.8	3717.2	3008.9	2066.7	983.9	602.9	580.7	631.6	753.6	878.4	890.5
27.5°	3916.0	3598.8	2779.6	1635.8	639.0	496.6	511.3	545.6	595.5	651.0	656.5
30°	3817.1	3457.4	2534.5	1192.8	482.7	446.6	467.9	486.4	507.6	539.1	541.9
32.5°	3703.3	3321.4	2283.0	823.9	428.1	420.7	437.4	446.6	463.3	482.7	484.5
35°	3608.1	3192.0	2022.3	582.5	405.0	401.3	412.4	416.1	431.8	453.1	454.9
37.5°	3553.5	3086.6	1753.2	469.7	389.3	383.7	390.2	390.2	412.4	443.8	448.5
40°	3557.2	3028.3	1484.1	424.4	376.3	368.9	369.9	369.9	398.5	432.7	435.5
42.5°	3658.0	3043.1	1245.5	406.9	366.2	357.9	353.2	356.0	380.0	402.2	404.1
45°	3894.7	3147.6	1021.8	395.8	356.0	353.2	343.1	342.1	351.4	361.5	361.5
47.5°	4283.1	3353.8	870.1	388.4	347.7	346.8	334.7	322.7	321.8	325.5	325.5
50°	4914.7	3708.9	768.4	380.0	342.1	334.7	320.9	302.4	295.9	298.7	298.7
52.5°	5861.5	4342.3	729.6	368.9	330.1	318.1	302.4	283.9	278.3	279.3	279.3
55°	7103.4	5315.1	724.0	356.0	317.2	297.7	284.8	270.9	264.5	266.3	266.3
57.5°	8620.8	6660.5	823.0	335.7	299.6	277.4	270.0	260.8	256.1	258.9	258.0
60°	10465.5	8421.0	1220.6	314.4	282.0	258.9	258.9	251.5	247.8	250.6	249.7
62.5°	12590.4	10443.3	1716.2	298.7	263.5	244.1	247.8	244.1	240.4	242.3	241.3
65°	14474.9	11761.0	1607.1	286.7	245.0	230.2	236.7	234.9	232.1	233.9	233.0
67.5°	14529.5	11272.8	902.5	273.7	227.5	216.4	225.6	224.7	222.8	224.7	223.8
70°	12966.8	9518.6	508.6	249.7	209.0	199.7	212.7	211.8	209.9	213.6	212.7
72.5°	10388.8	6907.4	371.7	220.1	190.5	182.2	197.0	196.0	196.0	201.6	198.8
75°	5978.0	3554.5	296.8	188.6	171.1	164.6	177.5	178.5	180.3	187.7	182.2
77.5°	1704.2	1107.8	242.3	160.0	147.0	144.2	157.2	159.0	160.0	168.3	160.9
80°	633.4	510.4	199.7	134.1	120.2	121.1	133.2	135.9	136.9	145.2	135.9
82.5°	404.1	336.6	161.8	103.6	94.3	93.4	108.2	111.9	111.9	112.8	107.3
85°	235.8	201.6	122.1	74.9	66.6	63.8	80.4	86.9	84.1	82.3	78.6
87.5°	158.1	138.7	74.9	41.6	36.1	34.2	47.2	51.8	49.9	47.2	44.4
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)