

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: P191073

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191073
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-05-LED-E1-SL2-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 19642.7 lumens
Efficiency: N/A
Efficacy: 121.3 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

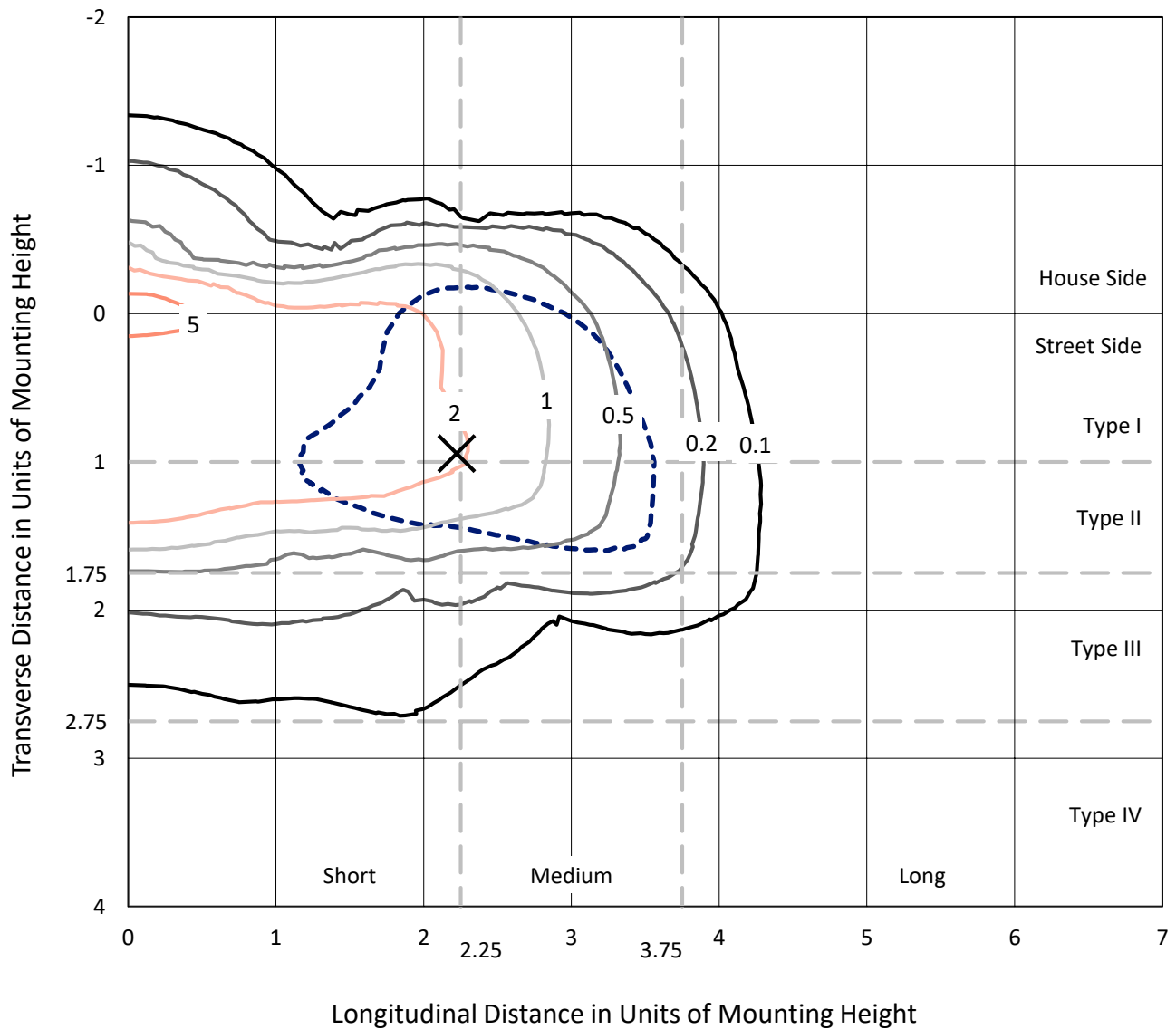
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

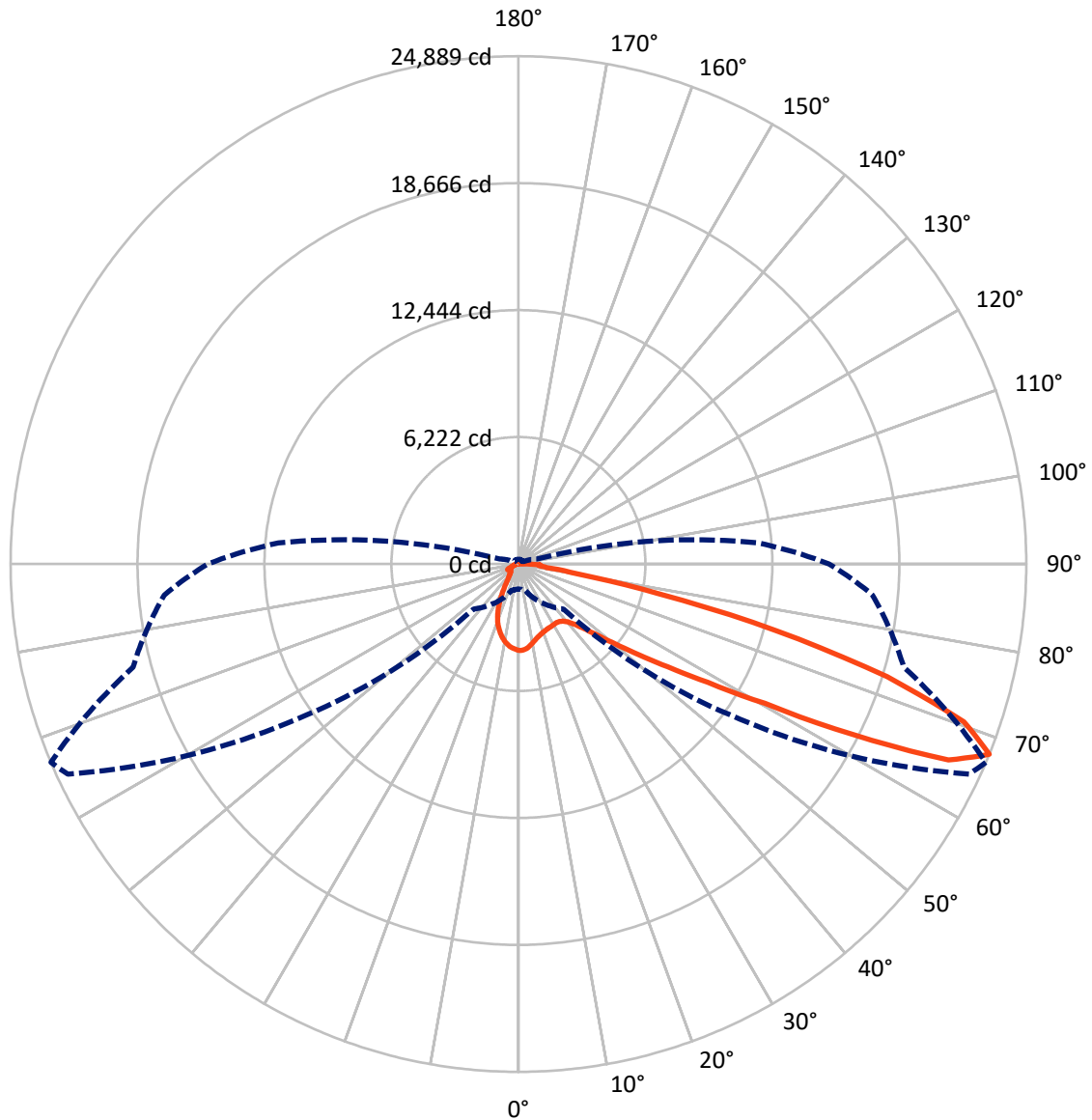
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	3254.6	0.0	3254.6
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	16388.1	0.0	16388.1
	% Fixture	83.4	0.0	83.4
Total	Lumens	19642.7	0.0	19642.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.5	1.8
10°-20°	836.4	4.3
20°-30°	1133.7	5.8
30°-40°	1611.7	8.2
40°-50°	2696.5	13.7
50°-60°	4265.8	21.7
60°-70°	5434.2	27.7
70°-80°	2846.4	14.5
80°-90°	456.5	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°	19642.7	100.0
0°-180°	19642.7	100.0

Coefficient of Utilization



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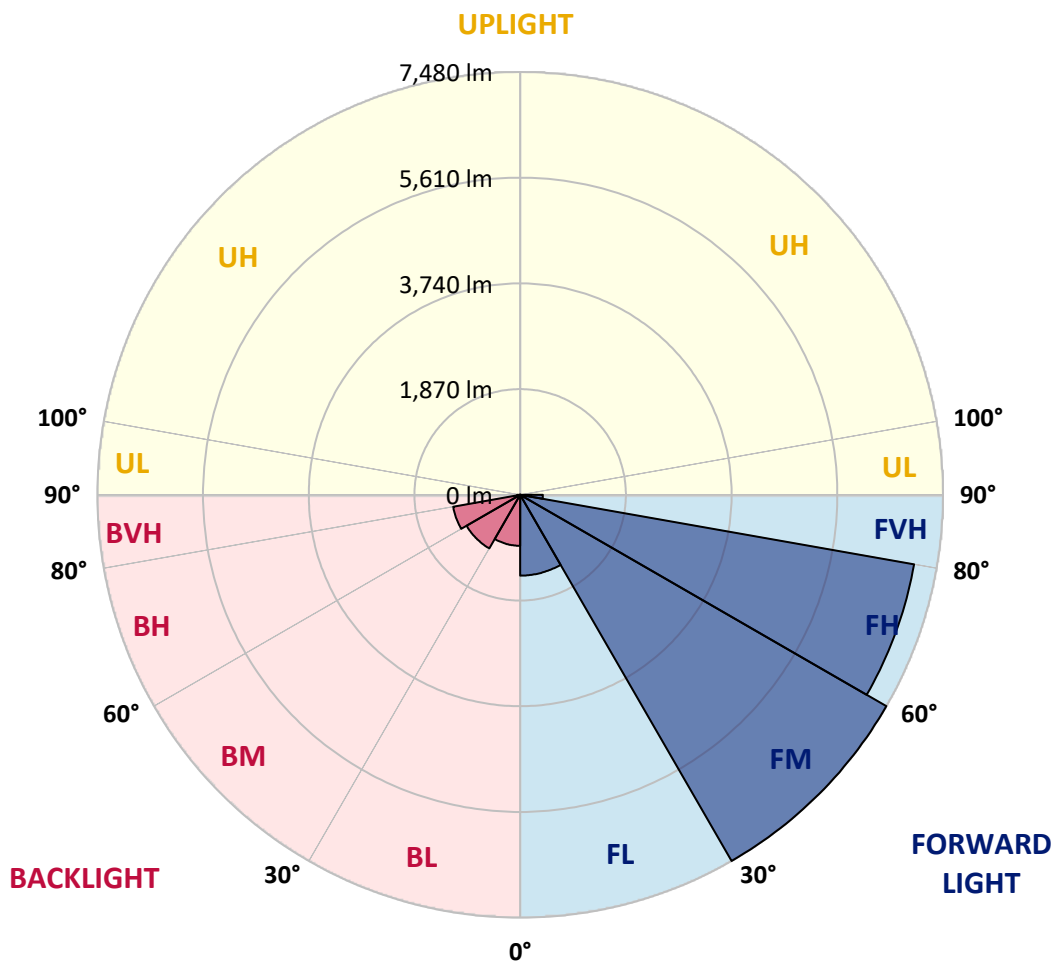
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1429.5	7.3			
FM (30°-60°)	7480.3	38.1			
FH (60°-80°)	7076.9	36.0			G3/7500
FVH (80°-90°)	401.4	2.0			G3/500
BL (0°-30°)	902.1	4.6	B2/1000		
BM (30°-60°)	1093.6	5.6	B2/2500		
BH (60°-80°)	1203.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	55.1	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°	4236.9	4236.9	4236.9	4236.9	4236.9	4236.9	4236.9	4236.9	4236.9	4236.9	4236.9
2.5°	4062.5	4069.3	4090.6	4104.2	4165.3	4191.3	4209.7	4228.2	4231.0	4239.8	4231.0
5°	3636.3	3650.8	3690.6	3735.1	3853.3	3946.2	4044.1	4145.8	4164.2	4230.1	4248.5
7.5°	3306.0	3302.1	3335.0	3388.3	3509.4	3638.2	3809.7	4012.1	4051.9	4200.0	4271.7
10°	3064.9	3061.9	3096.8	3152.0	3267.3	3389.3	3583.1	3860.1	3916.3	4152.6	4294.0
12.5°	2886.6	2887.6	2922.5	2983.4	3100.7	3223.6	3420.3	3712.8	3784.5	4097.4	4317.3
15°	2768.4	2776.2	2804.2	2869.2	2983.4	3106.5	3299.2	3602.4	3682.8	4053.9	4343.4
17.5°	2728.7	2741.3	2751.0	2798.4	2896.3	3019.2	3208.2	3521.1	3606.3	4023.8	4366.7
20°	2765.5	2780.1	2761.7	2778.1	2840.1	2948.6	3136.5	3457.2	3544.3	3989.9	4369.6
22.5°	2923.4	2937.0	2882.7	2835.2	2831.3	2897.2	3077.4	3406.7	3496.9	3964.7	4370.6
25°	3201.4	3210.1	3119.1	3008.6	2901.1	2878.8	3035.7	3371.9	3467.8	3942.5	4352.1
27.5°	3542.4	3549.1	3444.5	3281.8	3065.8	2922.5	3021.2	3351.5	3451.3	3923.0	4321.1
30°	3957.0	3988.9	3848.4	3643.1	3328.3	3051.3	3050.2	3340.9	3432.9	3890.1	4260.2
32.5°	4381.2	4394.8	4297.9	4089.7	3681.8	3277.9	3131.7	3348.6	3428.0	3850.4	4182.6
35°	4811.2	4828.7	4765.7	4598.2	4165.3	3610.2	3290.5	3394.2	3458.1	3836.8	4128.4
37.5°	5368.2	5391.6	5304.3	5110.6	4753.1	4060.6	3555.0	3508.4	3550.2	3875.6	4112.0
40°	6248.8	6238.2	5983.3	5694.7	5396.4	4636.9	3932.7	3702.2	3726.4	4000.6	4162.3
42.5°	7273.6	7247.4	6808.7	6355.3	6103.4	5334.4	4432.5	4038.3	4033.5	4246.6	4339.6
45°	8091.1	8069.9	7674.6	7115.7	6914.2	6128.7	5078.6	4539.1	4503.2	4636.9	4667.0
47.5°	8533.9	8534.8	8307.2	7850.9	7846.0	7137.9	5908.8	5263.7	5201.7	5264.6	5232.7
50°	8378.9	8399.1	8375.0	8229.6	8696.5	8461.1	6992.7	6274.0	6149.0	6210.9	6088.0
52.5°	7629.1	7655.3	7798.6	8021.4	9054.0	10060.4	8585.1	7529.3	7384.1	7361.8	7225.2
55°	6300.1	6332.1	6624.6	7230.0	8756.6	11134.6	11097.9	9129.5	8898.0	8687.8	8629.7
57.5°	4342.4	4395.7	4866.5	5765.5	7794.8	11459.2	14090.0	11410.7	10939.9	10205.7	10219.3
60°	2447.8	2509.8	3064.9	3881.4	5853.5	11106.6	16366.3	14865.9	13872.0	11983.2	12083.9
62.5°	1556.6	1623.4	2044.8	2696.7	3512.3	9208.0	17299.1	19669.4	18407.3	14174.3	14273.1
65°	1260.2	1289.2	1487.9	2225.9	2550.4	5547.5	16591.0	23626.4	23155.6	16955.3	16494.2
67.5°	1230.2	1239.9	1342.5	1868.5	2445.9	3118.1	13233.7	24366.5	24888.5	19552.3	17419.2
70°	1215.7	1249.5	1513.0	1783.3	2342.3	2629.9	7952.6	22338.1	23162.4	20231.3	16188.1
72.5°	589.9	588.0	761.4	1612.8	2638.6	2727.7	4085.8	18074.1	18901.3	17527.8	13302.5
75°	475.6	435.0	415.5	590.9	2536.9	2816.8	2603.7	12436.5	13035.2	11751.7	8177.4
77.5°	451.4	402.9	369.1	370.0	1072.3	2987.3	2205.6	6883.2	7057.6	5308.2	2240.5
80°	373.9	329.4	305.1	343.9	519.1	2844.9	2384.8	3115.2	2858.5	1303.9	745.8
82.5°	259.6	236.3	229.6	288.7	415.5	2027.4	2773.2	1673.9	1403.6	652.8	460.1
85°	165.6	141.5	156.9	210.2	323.6	935.7	2856.6	1304.8	1037.5	414.6	259.6
87.5°	76.5	62.0	77.5	116.2	211.1	322.5	2718.1	1465.6	1068.5	218.9	163.7
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°	4236.9	4236.9	4236.9	4236.9	4236.9	4236.9	4236.9	4236.9	4236.9	4236.9	4236.9
2.5°	4238.8	4220.4	4205.9	4178.8	4148.8	4119.6	4093.5	4060.6	4050.9	4042.2	4055.8
5°	4252.4	4234.0	4180.7	4097.4	4005.4	3919.1	3833.0	3759.3	3713.8	3688.7	3703.2
7.5°	4272.8	4246.6	4136.1	3983.1	3817.4	3666.4	3510.4	3385.5	3293.4	3249.8	3262.4
10°	4291.2	4240.7	4060.6	3831.1	3588.8	3364.2	3118.1	2914.7	2763.6	2684.1	2703.6
12.5°	4298.8	4218.4	3955.0	3641.2	3308.9	2979.5	2617.3	2313.1	2096.1	2016.7	2000.3
15°	4306.6	4193.3	3838.7	3425.1	2970.9	2504.9	1997.3	1633.1	1453.0	1413.3	1404.5
17.5°	4308.6	4149.7	3707.1	3190.8	2574.7	1940.2	1365.8	1134.2	1135.3	1199.2	1207.0
20°	4288.2	4084.8	3547.2	2899.1	2100.0	1341.6	937.6	897.9	1044.2	1204.0	1223.4
22.5°	4241.8	3998.6	3366.0	2559.2	1556.6	883.4	725.5	769.2	958.0	1153.7	1176.0
25°	4182.6	3894.0	3152.0	2165.0	1030.6	631.6	608.3	661.5	789.4	920.2	932.8
27.5°	4102.2	3770.0	2911.7	1713.5	669.3	520.2	535.6	571.5	623.8	681.9	687.7
30°	3998.6	3621.8	2655.1	1249.5	505.6	467.9	490.1	509.5	531.8	564.8	567.6
32.5°	3879.4	3479.4	2391.6	863.1	448.5	440.7	458.2	467.9	485.3	505.6	507.6
35°	3779.7	3343.8	2118.4	610.3	424.3	420.4	432.0	435.9	452.3	474.6	476.6
37.5°	3722.5	3233.3	1836.6	492.0	407.9	402.0	408.8	408.8	432.0	464.9	469.8
40°	3726.4	3172.4	1554.7	444.6	394.2	386.5	387.5	387.5	417.5	453.4	456.2
42.5°	3832.0	3187.8	1304.8	426.2	383.6	374.9	370.0	373.0	398.1	421.4	423.3
45°	4079.9	3297.3	1070.3	414.6	373.0	370.0	359.4	358.4	368.1	378.7	378.7
47.5°	4486.8	3513.3	911.6	406.8	364.2	363.2	350.7	338.1	337.1	340.9	340.9
50°	5148.4	3885.3	805.0	398.1	358.4	350.7	336.1	316.7	310.0	312.9	312.9
52.5°	6140.3	4548.8	764.2	386.5	345.9	333.2	316.7	297.4	291.5	292.6	292.6
55°	7441.1	5567.8	758.4	373.0	332.3	311.9	298.4	283.8	277.0	279.0	279.0
57.5°	9030.7	6977.2	862.1	351.6	313.8	290.6	282.8	273.1	268.3	271.2	270.3
60°	10963.2	8821.5	1278.6	329.4	295.4	271.2	271.2	263.5	259.6	262.5	261.6
62.5°	13189.2	10939.9	1797.8	312.9	276.1	255.7	259.6	255.7	251.9	253.8	252.8
65°	15163.3	12320.3	1683.5	300.2	256.7	241.2	248.0	246.0	243.2	245.1	244.1
67.5°	15220.4	11808.8	945.4	286.7	238.2	226.7	236.3	235.4	233.4	235.4	234.5
70°	13583.4	9971.3	532.8	261.6	218.9	209.2	222.8	221.8	219.9	223.7	222.8
72.5°	10882.8	7235.8	389.4	230.6	199.6	190.8	206.3	205.3	205.3	211.1	208.3
75°	6262.3	3723.5	311.0	197.6	179.2	172.5	186.0	187.0	188.8	196.6	190.8
77.5°	1785.3	1160.4	253.8	167.6	154.1	151.1	164.7	166.6	167.6	176.3	168.6
80°	663.5	534.7	209.2	140.5	125.9	126.8	139.5	142.4	143.3	152.1	142.4
82.5°	423.3	352.6	169.5	108.5	98.8	97.8	113.3	117.2	117.2	118.2	112.3
85°	247.0	211.1	127.9	78.5	69.8	66.8	84.3	91.0	88.2	86.2	82.3
87.5°	165.6	145.3	78.5	43.6	37.7	35.8	49.4	54.2	52.3	49.4	46.5
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)