

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: P191901

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191901  
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-03-LED-E1-SL2-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 1200mA 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: 19529 lumens  
Efficiency: N/A  
Efficacy: 102.2 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): 191  
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

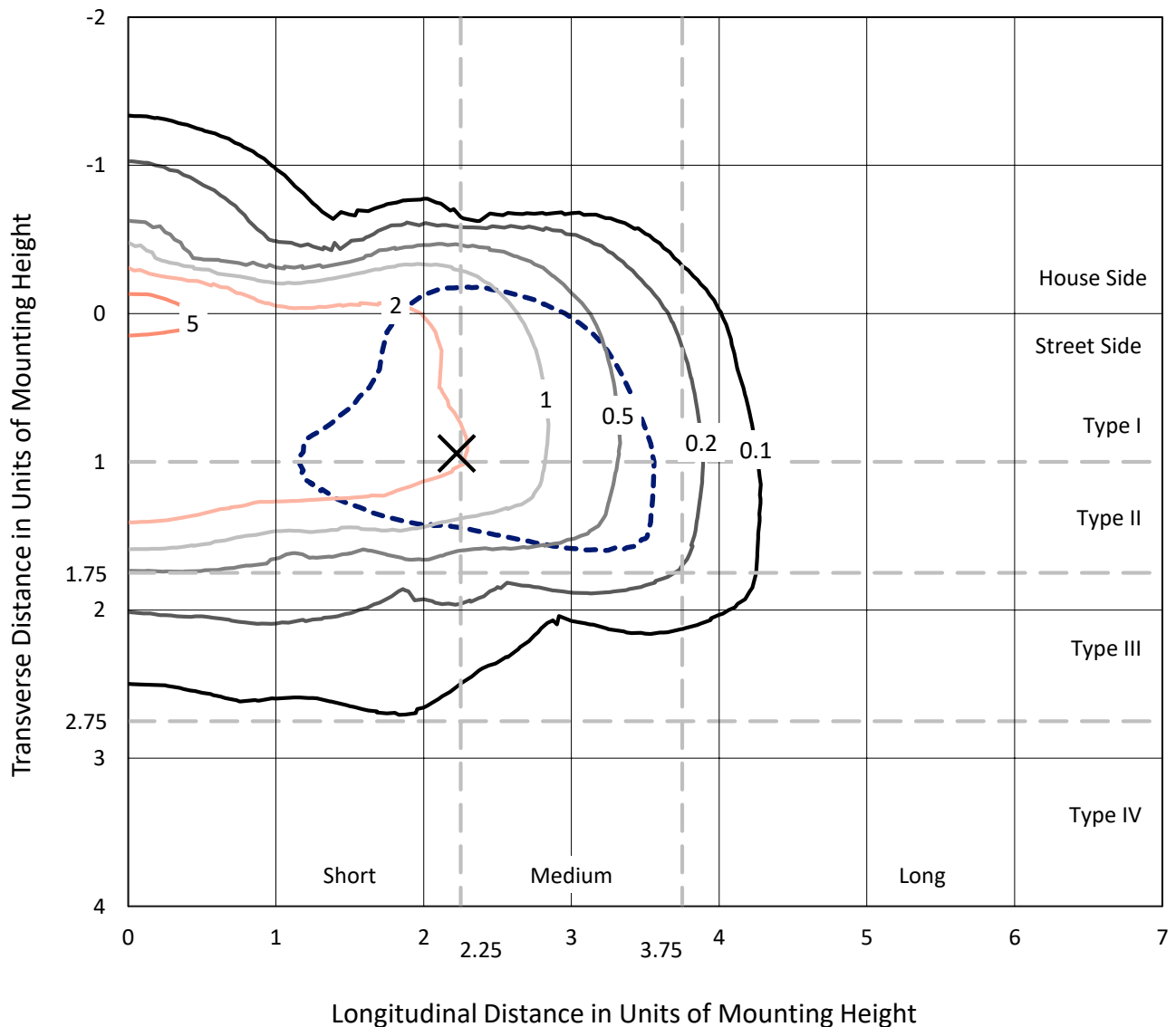


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

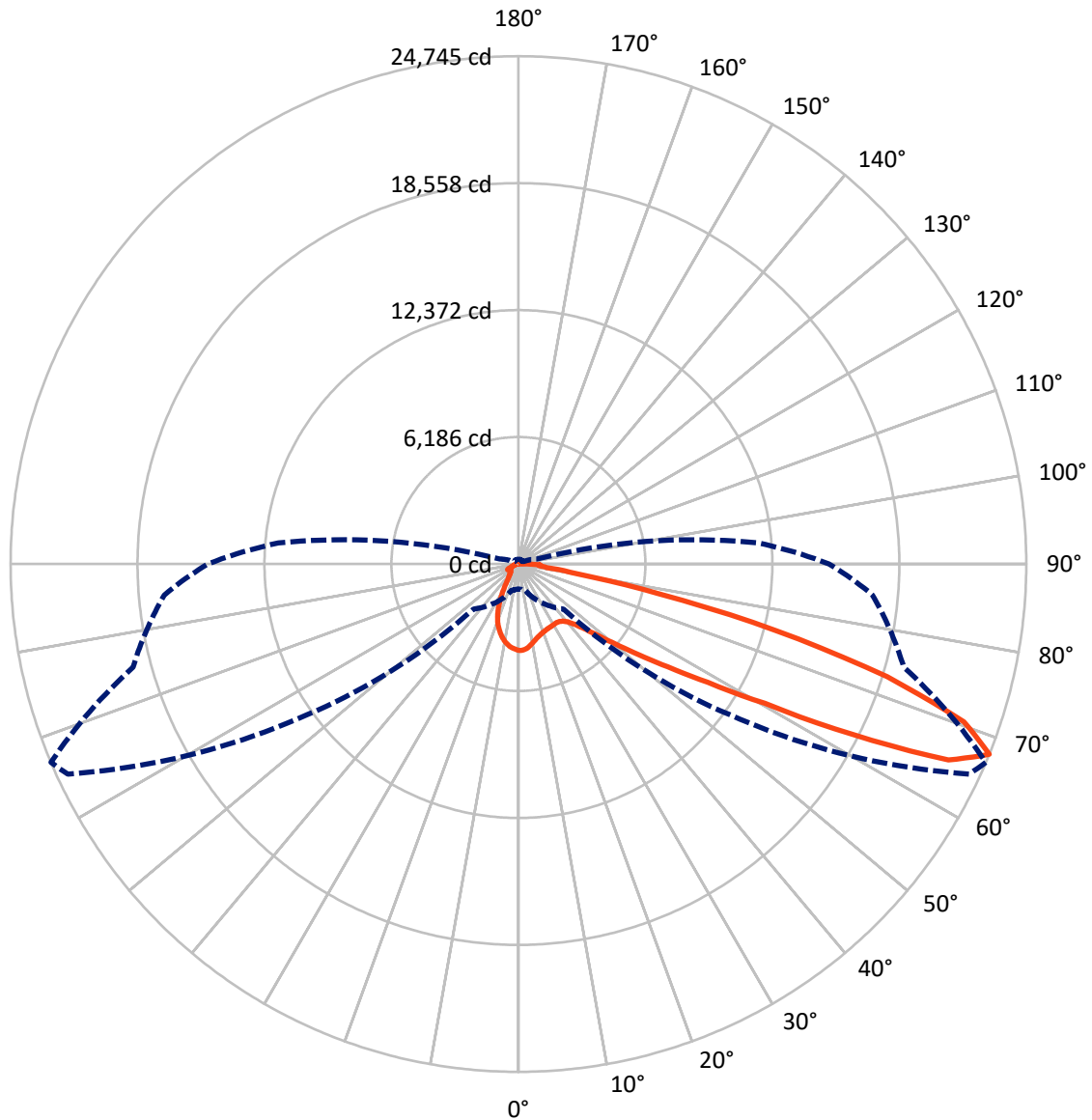


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	3235.7	0.0	3235.7
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	16293.3	0.0	16293.3
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	19529.0	0.0	19529.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.4	1.8
10°-20°	831.5	4.3
20°-30°	1127.2	5.8
30°-40°	1602.4	8.2
40°-50°	2680.9	13.7
50°-60°	4241.1	21.7
60°-70°	5402.7	27.7
70°-80°	2829.9	14.5
80°-90°	453.9	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°	19529.0	100.0
0°-180°	19529.0	100.0



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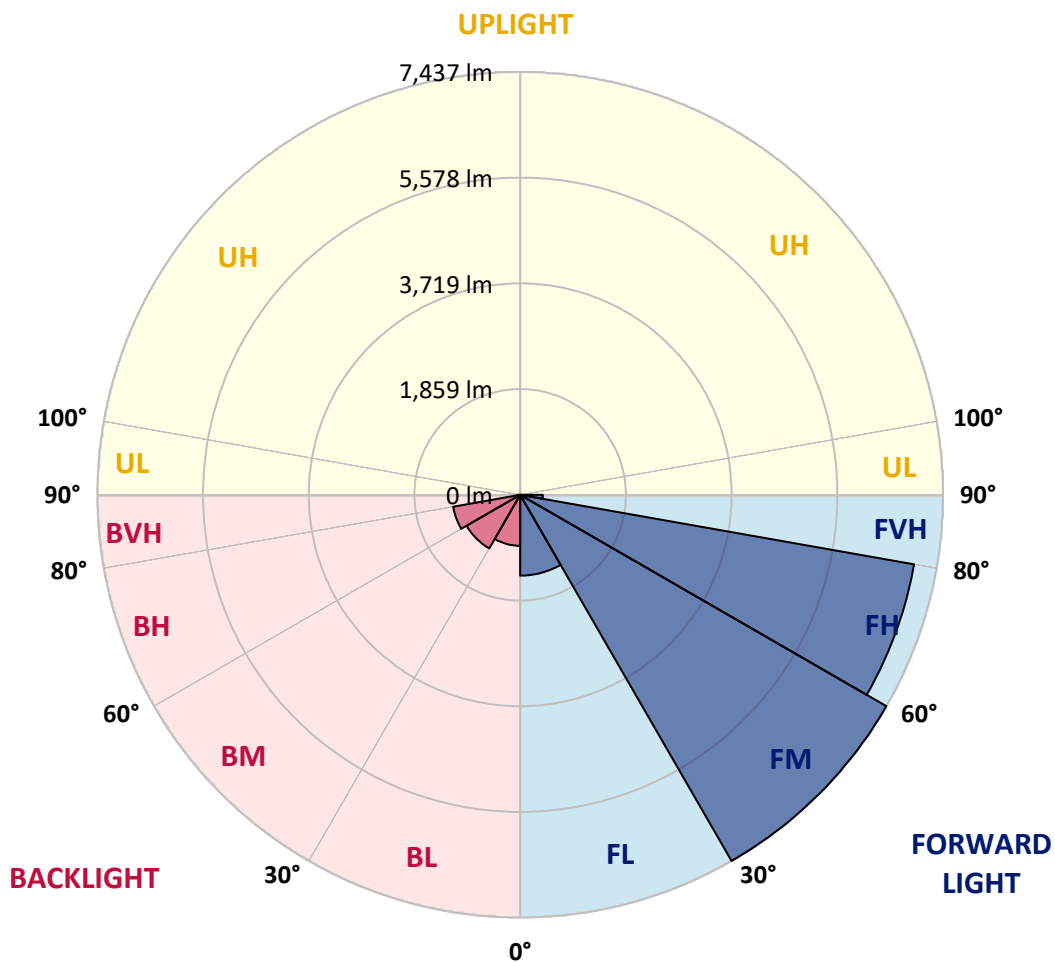
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1421.2	7.3			
FM	(30°-60°)	7437.0	38.1			
FH	(60°-80°)	7035.9	36.0			G3/7500
FVH	(80°-90°)	399.1	2.0			G3/500
BL	(0°-30°)	896.9	4.6	B2/1000		
BM	(30°-60°)	1087.3	5.6	B2/2500		
BH	(60°-80°)	1196.8	6.1	B3/2500		G3/2500
BVH	(80°-90°)	54.8	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°	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4
2.5°	4039.0	4045.8	4066.9	4080.4	4141.1	4167.1	4185.4	4203.7	4206.6	4215.2	4206.6
5°	3615.3	3629.7	3669.2	3713.5	3831.0	3923.4	4020.7	4121.8	4140.1	4205.6	4223.9
7.5°	3286.9	3283.0	3315.8	3368.7	3489.1	3617.2	3787.7	3988.9	4028.4	4175.8	4247.0
10°	3047.1	3044.2	3078.9	3133.7	3248.3	3369.7	3562.3	3837.7	3893.6	4128.6	4269.2
12.5°	2869.9	2870.8	2905.5	2966.2	3082.7	3205.0	3400.5	3691.4	3762.6	4073.7	4292.3
15°	2752.4	2760.1	2788.0	2852.5	2966.2	3088.5	3280.1	3581.6	3661.5	4030.3	4318.3
17.5°	2712.9	2725.4	2735.0	2782.2	2879.5	3001.8	3189.6	3500.7	3585.4	4000.5	4341.4
20°	2749.5	2763.9	2745.6	2762.0	2823.6	2931.5	3118.3	3437.1	3523.8	3966.8	4344.3
22.5°	2906.5	2920.0	2866.0	2818.8	2815.0	2880.5	3059.6	3387.0	3476.6	3941.7	4345.3
25°	3182.9	3191.5	3101.0	2991.2	2884.3	2862.2	3018.2	3352.4	3447.7	3919.6	4327.0
27.5°	3521.9	3528.6	3424.6	3262.8	3048.0	2905.5	3003.7	3332.1	3431.3	3900.3	4296.1
30°	3934.0	3965.8	3826.2	3622.0	3309.0	3033.6	3032.6	3321.5	3413.0	3867.6	4235.5
32.5°	4355.9	4369.3	4273.0	4066.0	3660.5	3258.9	3113.5	3329.2	3408.2	3828.1	4158.4
35°	4783.4	4800.8	4738.2	4571.6	4141.1	3589.3	3271.5	3374.5	3438.1	3814.6	4104.5
37.5°	5337.2	5360.3	5273.6	5081.0	4725.7	4037.1	3534.4	3488.1	3529.6	3853.1	4088.1
40°	6212.6	6202.0	5948.7	5661.7	5365.1	4610.1	3910.0	3680.8	3704.8	3977.4	4138.2
42.5°	7231.5	7205.5	6769.2	6318.5	6068.1	5303.5	4406.9	4014.9	4010.1	4222.0	4314.4
45°	8044.3	8023.1	7630.2	7074.5	6874.2	6093.2	5049.2	4512.8	4477.2	4610.1	4639.9
47.5°	8484.4	8485.4	8259.1	7805.5	7800.7	7096.7	5874.6	5233.2	5171.5	5234.1	5202.4
50°	8330.3	8350.6	8326.5	8182.0	8646.2	8412.2	6952.2	6237.6	6113.4	6175.0	6052.7
52.5°	7584.9	7610.9	7753.5	7975.0	9001.6	10002.2	8535.5	7485.7	7341.3	7319.1	7183.4
55°	6263.6	6295.4	6586.3	7188.2	8705.9	11070.2	11033.6	9076.7	8846.5	8637.5	8579.8
57.5°	4317.3	4370.3	4838.3	5732.0	7749.6	11392.8	14008.4	11344.7	10876.6	10146.6	10160.1
60°	2433.6	2495.2	3047.1	3858.9	5819.7	11042.3	16271.6	14779.8	13791.8	11913.8	12014.0
62.5°	1547.6	1614.1	2033.0	2681.1	3492.0	9154.7	17199.0	19555.6	18300.7	14092.2	14190.5
65°	1252.9	1281.8	1479.2	2213.1	2535.7	5515.4	16495.0	23489.6	23021.6	16857.1	16398.7
67.5°	1223.1	1232.7	1334.8	1857.7	2431.7	3100.0	13157.1	24225.4	24744.5	19439.1	17318.4
70°	1208.6	1242.3	1504.3	1773.0	2328.6	2614.7	7906.6	22208.8	23028.3	20114.2	16094.4
72.5°	586.5	584.6	757.0	1603.5	2623.3	2711.9	4062.1	17969.5	18791.9	17426.3	13225.5
75°	472.9	432.4	413.1	587.5	2522.2	2800.5	2588.7	12364.5	12959.7	11683.7	8130.0
77.5°	448.8	400.6	366.9	367.9	1066.1	2970.0	2192.9	6843.4	7016.7	5277.5	2227.5
80°	371.7	327.4	303.4	341.9	516.2	2828.5	2371.0	3097.2	2841.9	1296.3	741.5
82.5°	258.1	235.0	228.2	287.0	413.1	2015.7	2757.2	1664.1	1395.5	649.1	457.4
85°	164.7	140.6	156.0	209.0	321.7	930.3	2840.0	1297.2	1031.4	412.2	258.1
87.5°	76.1	61.6	77.0	115.6	209.9	320.7	2702.3	1457.1	1062.2	217.6	162.8
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°	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4	4212.4
2.5°	4214.3	4196.0	4181.5	4154.6	4124.7	4095.8	4069.8	4037.1	4027.5	4018.8	4032.3
5°	4227.8	4209.5	4156.5	4073.7	3982.2	3896.5	3810.8	3737.6	3692.3	3667.3	3681.7
7.5°	4248.0	4222.0	4112.2	3960.0	3795.4	3645.1	3490.1	3365.8	3274.4	3231.0	3243.5
10°	4266.3	4216.2	4037.1	3808.8	3568.1	3344.7	3100.0	2897.8	2747.6	2668.6	2687.9
12.5°	4274.0	4194.1	3932.1	3620.1	3289.8	2962.3	2602.1	2299.8	2084.0	2005.1	1988.7
15°	4281.7	4169.0	3816.5	3405.3	2953.7	2490.4	1985.8	1623.7	1444.6	1405.1	1396.4
17.5°	4283.6	4125.7	3685.6	3172.3	2559.8	1929.0	1357.9	1127.7	1128.7	1192.2	1200.0
20°	4263.4	4061.2	3526.7	2882.4	2087.9	1333.8	932.2	892.7	1038.2	1197.1	1216.3
22.5°	4217.2	3975.4	3346.6	2544.4	1547.6	878.3	721.3	764.7	952.5	1147.0	1169.1
25°	4158.4	3871.4	3133.7	2152.4	1024.7	627.9	604.8	657.8	784.9	914.9	927.4
27.5°	4078.5	3748.2	2894.9	1703.6	665.5	517.2	532.6	568.2	620.2	678.0	683.8
30°	3975.4	3600.8	2639.7	1242.3	502.7	465.2	487.3	506.6	528.7	561.5	564.3
32.5°	3857.0	3459.3	2377.8	858.1	445.9	438.2	455.5	465.2	482.5	502.7	504.6
35°	3757.8	3324.4	2106.2	606.7	421.8	418.0	429.5	433.4	449.7	471.9	473.8
37.5°	3701.0	3214.6	1825.9	489.2	405.4	399.7	406.4	406.4	429.5	462.3	467.1
40°	3704.8	3154.0	1545.7	442.0	392.0	384.3	385.2	385.2	415.1	450.7	453.6
42.5°	3809.8	3169.4	1297.2	423.7	381.4	372.7	367.9	370.8	395.8	418.9	420.9
45°	4056.3	3278.2	1064.2	412.2	370.8	367.9	357.3	356.3	366.0	376.6	376.6
47.5°	4460.8	3493.0	906.2	404.5	362.1	361.1	348.6	336.1	335.1	339.0	339.0
50°	5118.6	3862.8	800.3	395.8	356.3	348.6	334.2	314.9	308.2	311.1	311.1
52.5°	6104.7	4522.5	759.8	384.3	343.8	331.3	314.9	295.7	289.9	290.8	290.8
55°	7398.1	5535.6	754.1	370.8	330.3	310.1	296.6	282.2	275.4	277.4	277.4
57.5°	8978.5	6936.8	857.1	349.6	312.0	288.9	281.2	271.6	266.8	269.7	268.7
60°	10899.7	8770.4	1271.2	327.4	293.7	269.7	269.7	261.9	258.1	261.0	260.0
62.5°	13112.8	10876.6	1787.4	311.1	274.5	254.2	258.1	254.2	250.4	252.3	251.4
65°	15075.5	12249.0	1673.8	298.5	255.2	239.8	246.5	244.6	241.7	243.7	242.7
67.5°	15132.3	11740.5	939.9	285.1	236.9	225.4	235.0	234.0	232.1	234.0	233.1
70°	13504.8	9913.6	529.7	260.0	217.6	208.0	221.5	220.5	218.6	222.5	221.5
72.5°	10819.8	7193.9	387.1	229.2	198.4	189.7	205.1	204.2	204.2	209.9	207.1
75°	6226.1	3701.9	309.1	196.5	178.2	171.4	184.9	185.9	187.8	195.5	189.7
77.5°	1774.9	1153.7	252.3	166.6	153.1	150.2	163.7	165.6	166.6	175.3	167.6
80°	659.7	531.6	208.0	139.6	125.2	126.2	138.7	141.6	142.5	151.2	141.6
82.5°	420.9	350.5	168.5	107.9	98.2	97.3	112.7	116.5	116.5	117.5	111.7
85°	245.6	209.9	127.1	78.0	69.3	66.5	83.8	90.5	87.6	85.7	81.9
87.5°	164.7	144.5	78.0	43.3	37.6	35.6	49.1	53.9	52.0	49.1	46.2
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)