

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: P193642

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193642  
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-SL2-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 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: 21056 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 258  
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

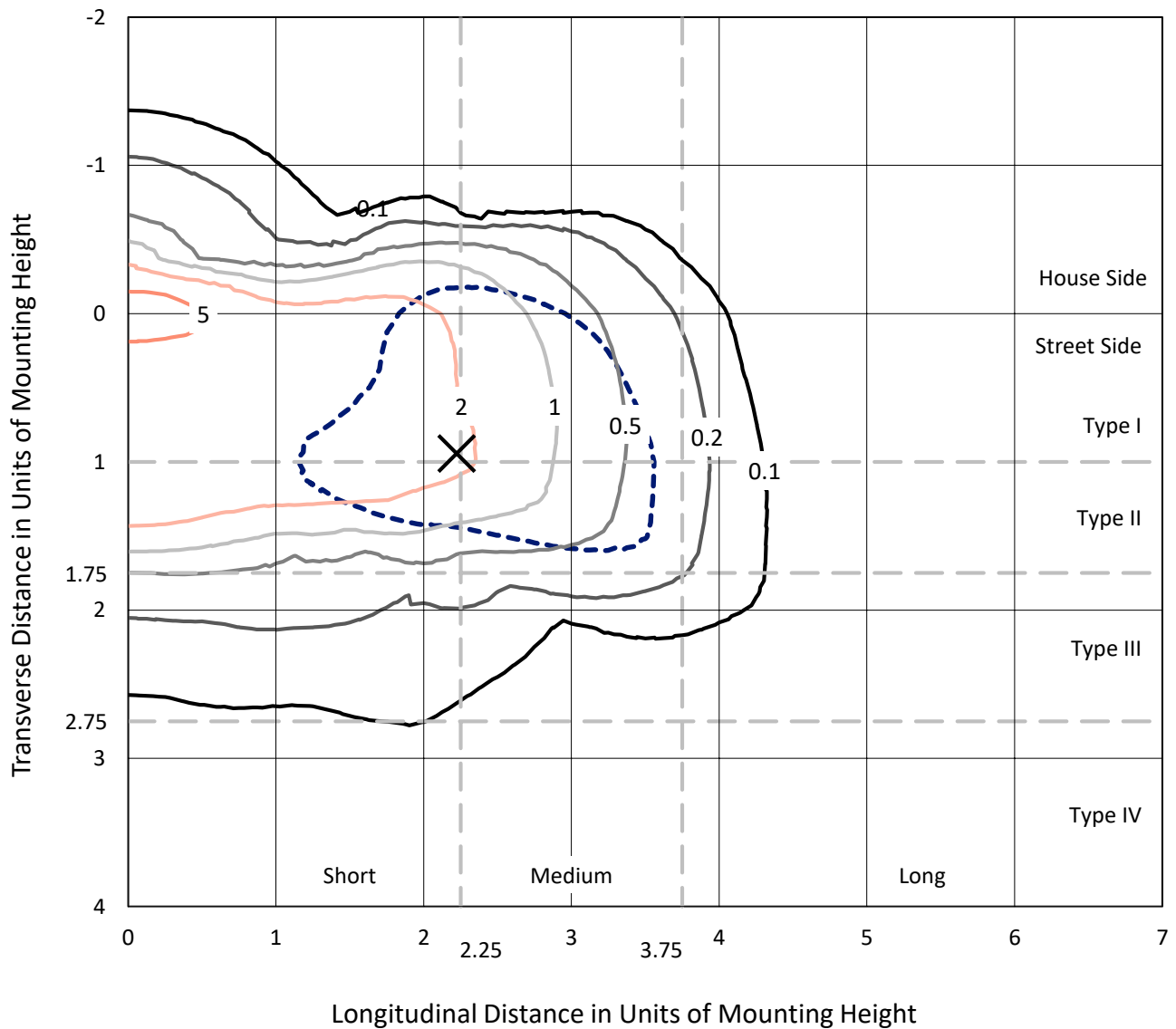


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

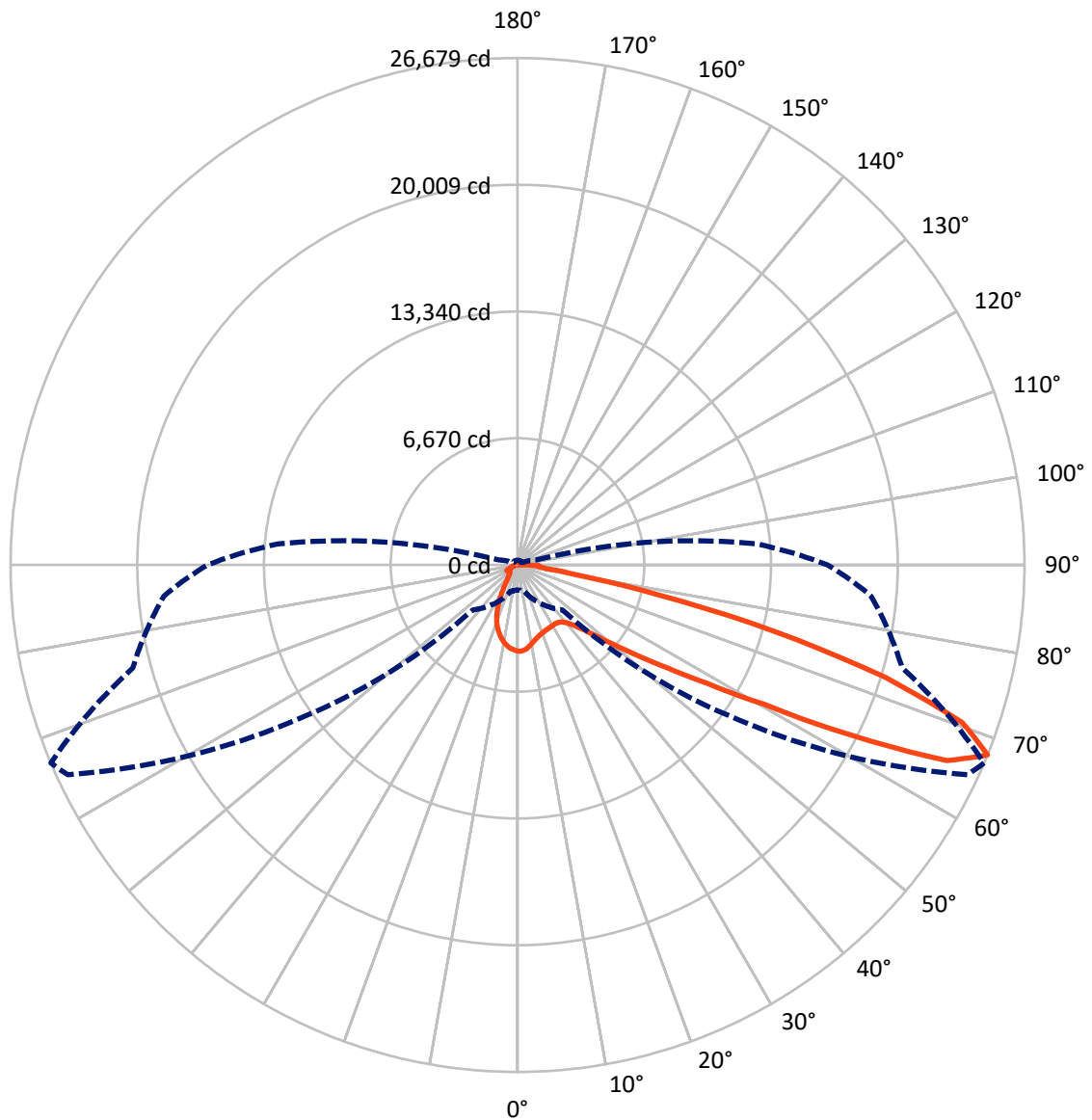


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - Semi-Cutoff

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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	3488.7	0.0	3488.7
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	17567.3	0.0	17567.3
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	21056.0	0.0	21056.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	387.5	1.8
10°-20°	896.6	4.3
20°-30°	1215.3	5.8
30°-40°	1727.7	8.2
40°-50°	2890.5	13.7
50°-60°	4572.7	21.7
60°-70°	5825.2	27.7
70°-80°	3051.2	14.5
80°-90°	489.4	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°	21056.0	100.0
0°-180°	21056.0	100.0



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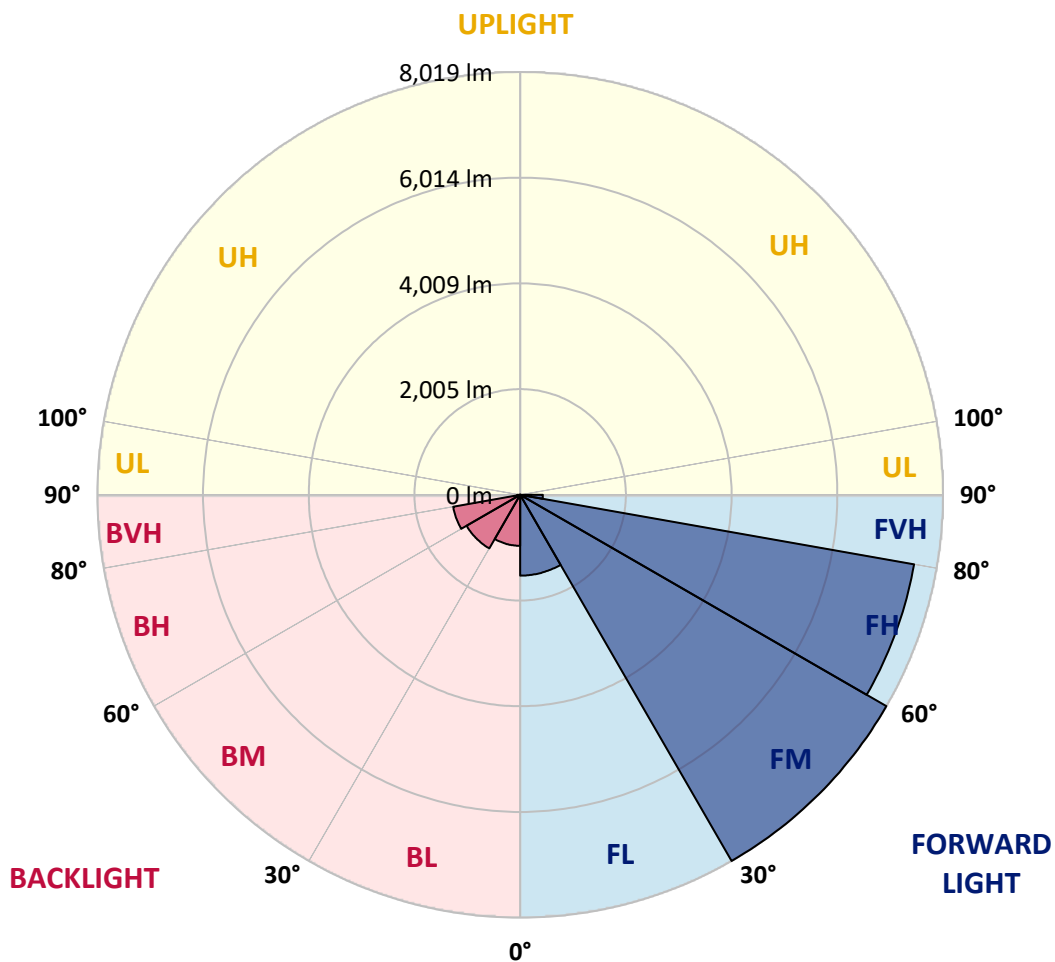
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1532.4	7.3			
FM (30°-60°)	8018.6	38.1			
FH (60°-80°)	7586.0	36.0			G4/12000
FVH (80°-90°)	430.3	2.0			G3/500
BL (0°-30°)	967.0	4.6	B2/1000		
BM (30°-60°)	1172.3	5.6	B2/2500		
BH (60°-80°)	1290.4	6.1	B3/2500		G3/2500
BVH (80°-90°)	59.1	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7
2.5°	4354.8	4362.1	4384.9	4399.5	4464.9	4492.9	4512.7	4532.4	4535.5	4544.8	4535.5
5°	3898.0	3913.5	3956.1	4003.9	4130.5	4230.2	4335.1	4444.1	4463.9	4534.5	4554.2
7.5°	3543.9	3539.7	3575.0	3632.1	3761.9	3900.0	4083.8	4300.8	4343.4	4502.3	4579.1
10°	3285.3	3282.2	3319.6	3378.8	3502.3	3633.2	3840.8	4137.8	4198.0	4451.4	4603.0
12.5°	3094.3	3095.3	3132.7	3198.1	3323.7	3455.6	3666.4	3980.0	4056.8	4392.2	4627.9
15°	2967.6	2975.9	3006.0	3075.6	3198.1	3330.0	3536.6	3861.6	3947.8	4345.5	4655.9
17.5°	2925.0	2938.5	2948.9	2999.8	3104.7	3236.5	3439.0	3774.4	3865.8	4313.3	4680.9
20°	2964.5	2980.1	2960.3	2978.0	3044.4	3160.7	3362.2	3705.9	3799.3	4276.9	4684.0
22.5°	3133.7	3148.3	3090.1	3039.2	3035.1	3105.7	3298.8	3651.9	3748.4	4250.0	4685.0
25°	3431.7	3441.1	3343.5	3225.1	3109.8	3086.0	3254.2	3614.5	3717.3	4226.1	4665.3
27.5°	3797.2	3804.5	3692.4	3517.9	3286.4	3132.7	3238.6	3592.7	3699.6	4205.3	4632.1
30°	4241.6	4275.9	4125.4	3905.2	3567.8	3270.8	3269.8	3581.3	3679.9	4170.0	4566.6
32.5°	4696.4	4711.0	4607.1	4383.9	3946.8	3513.8	3357.0	3589.6	3674.7	4127.4	4483.6
35°	5157.5	5176.2	5108.7	4929.0	4464.9	3869.9	3527.3	3638.4	3706.9	4112.9	4425.4
37.5°	5754.5	5779.4	5686.0	5478.3	5095.2	4352.7	3810.7	3760.9	3805.5	4154.4	4407.8
40°	6698.4	6687.0	6413.9	6104.4	5784.6	4970.6	4215.7	3968.6	3994.5	4288.4	4461.8
42.5°	7796.9	7768.9	7298.5	6812.6	6542.6	5718.2	4751.5	4328.9	4323.7	4552.1	4651.8
45°	8673.3	8650.5	8226.8	7627.7	7411.7	6569.6	5444.1	4865.7	4827.3	4970.6	5002.8
47.5°	9147.8	9148.9	8904.9	8415.8	8410.6	7651.6	6333.9	5642.4	5575.9	5643.4	5609.1
50°	8981.7	9003.5	8977.5	8821.8	9322.3	9070.0	7495.8	6725.4	6591.4	6657.9	6526.0
52.5°	8178.0	8206.1	8359.7	8598.5	9705.4	10784.3	9202.9	8071.1	7915.3	7891.4	7745.0
55°	6753.4	6787.7	7101.3	7750.2	9386.7	11935.8	11896.3	9786.4	9538.3	9312.9	9250.6
57.5°	4654.9	4712.0	5216.7	6180.2	8355.6	12283.6	15103.8	12231.7	11727.1	10940.0	10954.6
60°	2623.9	2690.4	3285.3	4160.7	6274.7	11905.7	17543.9	15935.5	14870.2	12845.4	12953.4
62.5°	1668.6	1740.3	2191.9	2890.8	3765.0	9870.5	18543.8	21084.7	19731.7	15194.1	15300.0
65°	1350.9	1382.0	1594.9	2386.1	2734.0	5946.6	17784.8	25326.3	24821.7	18175.2	17681.0
67.5°	1318.7	1329.1	1439.1	2003.0	2621.8	3342.4	14185.9	26119.6	26679.3	20959.0	18672.6
70°	1303.1	1339.5	1621.9	1911.6	2510.7	2819.1	8524.8	23945.3	24828.9	21686.9	17352.8
72.5°	632.4	630.3	816.1	1728.8	2828.5	2924.0	4379.7	19374.5	20261.3	18788.9	14259.6
75°	509.8	466.2	445.5	633.4	2719.4	3019.5	2791.1	13331.3	13973.0	12597.2	8765.7
77.5°	483.9	432.0	395.6	396.6	1149.4	3202.3	2364.3	7378.5	7565.4	5690.1	2401.7
80°	400.8	353.0	327.1	368.6	556.6	3049.6	2556.4	3339.3	3064.2	1397.6	799.5
82.5°	278.3	253.4	246.1	309.4	445.5	2173.3	2972.8	1794.3	1504.6	699.8	493.2
85°	177.6	151.6	168.2	225.3	346.8	1003.0	3062.1	1398.7	1112.1	444.4	278.3
87.5°	82.0	66.5	83.1	124.6	226.4	345.8	2913.6	1571.0	1145.3	234.7	175.5
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°	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7	4541.7
2.5°	4543.8	4524.1	4508.5	4479.4	4447.2	4416.1	4388.1	4352.7	4342.4	4333.0	4347.6
5°	4558.3	4538.6	4481.5	4392.2	4293.6	4201.1	4108.7	4029.8	3981.0	3954.0	3969.6
7.5°	4580.1	4552.1	4433.7	4269.7	4092.1	3930.1	3763.0	3629.0	3530.4	3483.7	3497.2
10°	4599.9	4545.9	4352.7	4106.7	3847.1	3606.2	3342.4	3124.4	2962.4	2877.3	2898.0
12.5°	4608.2	4522.0	4239.6	3903.1	3547.0	3194.0	2805.6	2479.6	2247.0	2161.8	2144.2
15°	4616.5	4495.0	4115.0	3671.6	3184.6	2685.2	2141.1	1750.7	1557.5	1514.9	1505.6
17.5°	4618.6	4448.3	3973.8	3420.3	2759.9	2079.8	1464.1	1215.9	1216.9	1285.5	1293.8
20°	4596.8	4378.7	3802.4	3107.8	2251.1	1438.1	1005.1	962.5	1119.3	1290.7	1311.4
22.5°	4546.9	4286.3	3608.3	2743.3	1668.6	947.0	777.7	824.4	1026.9	1236.7	1260.6
25°	4483.6	4174.2	3378.8	2320.7	1104.8	677.0	652.1	709.2	846.3	986.4	999.9
27.5°	4397.4	4041.2	3121.3	1836.8	717.5	557.6	574.2	612.6	668.7	731.0	737.2
30°	4286.3	3882.4	2846.1	1339.5	542.0	501.5	525.4	546.2	570.1	605.4	608.5
32.5°	4158.6	3729.7	2563.7	925.2	480.8	472.4	491.1	501.5	520.2	542.0	544.1
35°	4051.6	3584.4	2270.9	654.2	454.8	450.6	463.1	467.3	484.9	508.8	510.9
37.5°	3990.4	3466.0	1968.7	527.5	437.1	430.9	438.2	438.2	463.1	498.4	503.6
40°	3994.5	3400.6	1666.5	476.6	422.6	414.3	415.3	415.3	447.5	485.9	489.1
42.5°	4107.7	3417.2	1398.7	456.9	411.2	401.8	396.6	399.8	426.8	451.7	453.8
45°	4373.5	3534.5	1147.4	444.4	399.8	396.6	385.2	384.2	394.6	406.0	406.0
47.5°	4809.6	3766.1	977.1	436.1	390.4	389.4	375.9	362.4	361.3	365.5	365.5
50°	5518.8	4164.8	862.9	426.8	384.2	375.9	360.3	339.5	332.3	335.4	335.4
52.5°	6582.1	4876.1	819.3	414.3	370.7	357.2	339.5	318.8	312.5	313.6	313.6
55°	7976.6	5968.4	813.0	399.8	356.2	334.3	319.8	304.2	297.0	299.0	299.0
57.5°	9680.5	7479.2	924.1	376.9	336.4	311.5	303.2	292.8	287.6	290.7	289.7
60°	11752.0	9456.2	1370.6	353.0	316.7	290.7	290.7	282.4	278.3	281.4	280.4
62.5°	14138.1	11727.1	1927.2	335.4	295.9	274.1	278.3	274.1	270.0	272.0	271.0
65°	16254.3	13206.7	1804.6	321.9	275.2	258.5	265.8	263.7	260.6	262.7	261.7
67.5°	16315.5	12658.5	1013.4	307.4	255.4	243.0	253.4	252.3	250.2	252.3	251.3
70°	14560.7	10688.7	571.1	280.4	234.7	224.3	238.8	237.8	235.7	239.9	238.8
72.5°	11665.8	7756.4	417.4	247.1	213.9	204.6	221.2	220.1	220.1	226.4	223.2
75°	6712.9	3991.4	333.3	211.8	192.1	184.8	199.4	200.4	202.5	210.8	204.6
77.5°	1913.7	1243.9	272.0	179.6	165.1	162.0	176.5	178.6	179.6	189.0	180.7
80°	711.3	573.2	224.3	150.6	135.0	136.0	149.5	152.6	153.7	163.0	152.6
82.5°	453.8	378.0	181.7	116.3	105.9	104.9	121.5	125.6	125.6	126.7	120.4
85°	264.8	226.4	137.1	84.1	74.8	71.6	90.3	97.6	94.5	92.4	88.3
87.5°	177.6	155.8	84.1	46.7	40.5	38.4	53.0	58.1	56.1	53.0	49.8
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)