

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: P191074

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191074
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-SL2-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 23506.4 lumens
Efficiency: N/A
Efficacy: 121.8 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 - G4

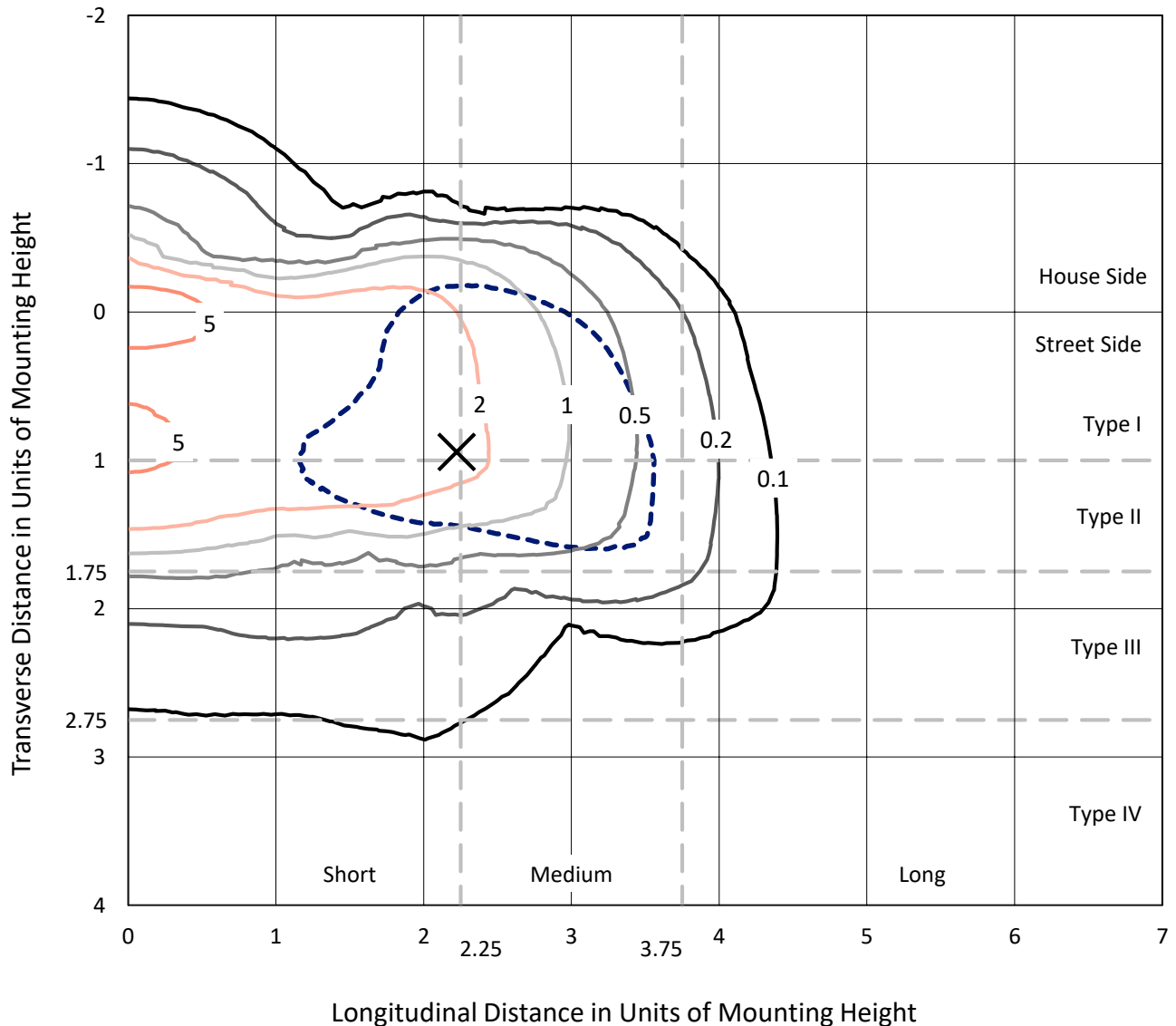
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

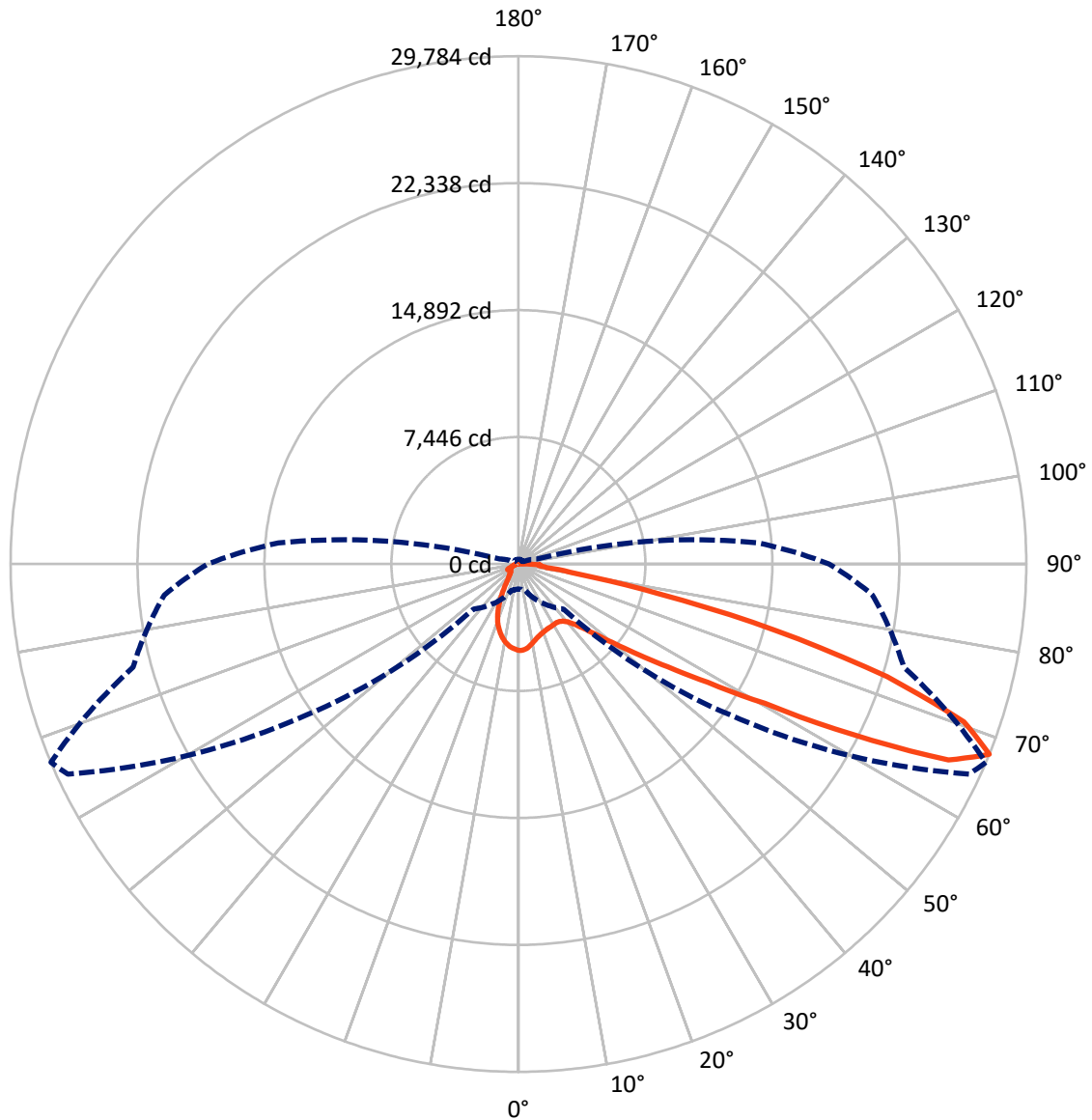
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	3894.7	0.0	3894.7
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	19611.6	0.0	19611.6
	% Fixture	83.4	0.0	83.4
Total	Lumens	23506.4	0.0	23506.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.6	1.8
10°-20°	1000.9	4.3
20°-30°	1356.7	5.8
30°-40°	1928.7	8.2
40°-50°	3226.8	13.7
50°-60°	5104.9	21.7
60°-70°	6503.1	27.7
70°-80°	3406.3	14.5
80°-90°	546.3	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°	23506.4	100.0
0°-180°	23506.4	100.0



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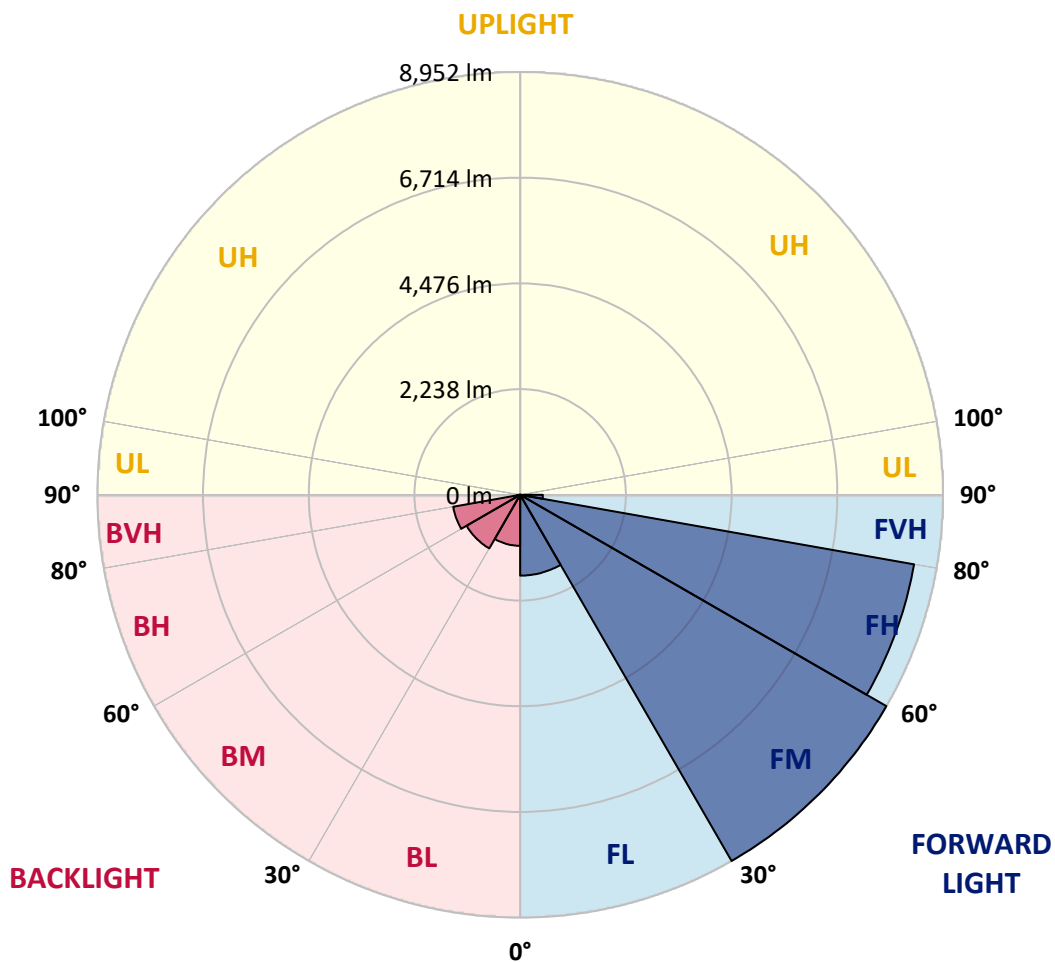
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1710.7	7.3			
FM	(30°-60°)	8951.7	38.1			
FH	(60°-80°)	8468.9	36.0			G4/12000
FVH	(80°-90°)	480.4	2.0			G3/500
BL	(0°-30°)	1079.5	4.6	B3/2500		
BM	(30°-60°)	1308.7	5.6	B2/2500		
BH	(60°-80°)	1440.5	6.1	B3/2500		G3/2500
BVH	(80°-90°)	65.9	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°	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3
2.5°	4861.6	4869.8	4895.2	4911.5	4984.5	5015.8	5037.8	5059.8	5063.3	5073.7	5063.3
5°	4351.5	4368.9	4416.5	4469.8	4611.3	4722.6	4839.6	4961.3	4983.3	5062.2	5084.2
7.5°	3956.3	3951.7	3991.0	4054.9	4199.7	4353.9	4559.1	4801.3	4848.9	5026.3	5112.0
10°	3667.7	3664.2	3705.9	3772.0	3909.9	4056.0	4287.8	4619.3	4686.5	4969.4	5138.7
12.5°	3454.4	3455.5	3497.3	3570.3	3710.5	3857.8	4093.0	4443.2	4528.9	4903.3	5166.5
15°	3312.9	3322.2	3355.8	3433.5	3570.3	3717.5	3948.2	4311.0	4407.2	4851.1	5197.8
17.5°	3265.5	3280.5	3292.1	3348.8	3466.0	3613.2	3839.2	4213.6	4315.6	4815.2	5225.6
20°	3309.5	3326.8	3304.8	3324.6	3398.8	3528.6	3753.4	4137.1	4241.5	4774.7	5229.1
22.5°	3498.4	3514.7	3449.7	3392.9	3388.3	3467.1	3682.7	4076.9	4184.7	4744.5	5230.2
25°	3831.1	3841.5	3732.5	3600.4	3471.8	3445.1	3632.9	4035.1	4149.9	4717.8	5208.3
27.5°	4239.1	4247.3	4122.1	3927.3	3668.8	3497.3	3615.5	4010.8	4130.2	4694.7	5171.1
30°	4735.2	4773.5	4605.4	4359.7	3983.0	3651.4	3650.3	3998.0	4108.2	4655.2	5098.1
32.5°	5243.0	5259.2	5143.3	4894.1	4406.1	3922.7	3747.7	4007.3	4102.3	4607.8	5005.4
35°	5757.7	5778.5	5703.2	5502.7	4984.5	4320.2	3937.7	4061.8	4138.2	4591.5	4940.4
37.5°	6424.2	6452.1	6347.7	6115.8	5688.1	4859.3	4254.2	4198.6	4248.4	4637.9	4920.7
40°	7477.9	7465.2	7160.2	6814.8	6457.8	5549.0	4706.3	4430.4	4459.3	4787.4	4981.1
42.5°	8704.3	8673.0	8147.9	7605.4	7304.0	6383.6	5304.4	4832.6	4826.8	5081.8	5193.1
45°	9682.6	9657.2	9184.3	8515.3	8274.2	7334.1	6077.6	5432.0	5389.0	5549.0	5584.9
47.5°	10212.4	10213.6	9941.1	9395.2	9389.4	8542.0	7071.0	6299.0	6224.9	6300.1	6261.9
50°	10027.0	10051.3	10022.3	9848.5	10407.2	10125.5	8368.1	7508.0	7358.5	7432.7	7285.5
52.5°	9129.7	9161.0	9332.6	9599.2	10834.9	12039.3	10273.8	9010.4	8836.5	8809.8	8646.4
55°	7539.4	7577.6	7927.7	8652.1	10479.0	13324.9	13280.8	10925.3	10648.3	10396.8	10327.2
57.5°	5196.6	5260.4	5823.8	6899.5	9328.0	13713.2	16861.5	13655.2	13091.8	12213.1	12229.4
60°	2929.2	3003.5	3667.7	4644.8	7005.0	13291.2	19585.6	17790.0	16600.7	14340.2	14460.8
62.5°	1862.8	1942.8	2447.0	3227.2	4203.2	11019.2	20701.9	23538.4	22028.0	16962.4	17080.6
65°	1508.1	1542.9	1780.5	2663.8	3052.2	6638.6	19854.5	28273.6	27710.3	20290.3	19738.6
67.5°	1472.1	1483.8	1606.6	2236.1	2927.0	3731.4	15836.8	29159.3	29784.0	23398.2	20845.6
70°	1454.7	1495.3	1810.6	2134.1	2802.9	3147.2	9516.9	26732.0	27718.4	24210.7	19372.2
72.5°	705.9	703.6	911.1	1930.0	3157.6	3264.2	4889.4	21629.2	22619.2	20975.4	15919.1
75°	569.2	520.5	497.3	707.1	3035.9	3370.9	3115.9	14882.8	15599.2	14063.2	9785.9
77.5°	540.2	482.2	441.6	442.8	1283.2	3574.9	2639.4	8237.2	8445.8	6352.3	2681.2
80°	447.4	394.1	365.2	411.5	621.3	3404.5	2853.9	3727.9	3420.7	1560.3	892.5
82.5°	310.7	282.8	274.8	345.5	497.3	2426.1	3318.8	2003.0	1679.7	781.3	550.7
85°	198.2	169.2	187.8	251.5	387.2	1119.7	3418.4	1561.4	1241.5	496.1	310.7
87.5°	91.6	74.2	92.8	139.1	252.7	386.0	3252.7	1753.8	1278.6	262.0	195.9
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°	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3	5070.3
2.5°	5072.6	5050.6	5033.2	5000.7	4964.8	4930.0	4898.7	4859.3	4847.7	4837.2	4853.5
5°	5088.8	5066.8	5003.0	4903.3	4793.2	4690.0	4586.9	4498.8	4444.3	4414.1	4431.5
7.5°	5113.1	5081.8	4949.8	4766.5	4568.3	4387.5	4200.8	4051.4	3941.2	3889.1	3904.1
10°	5135.2	5074.9	4859.3	4584.6	4294.8	4025.8	3731.4	3488.0	3307.2	3212.1	3235.3
12.5°	5144.4	5048.3	4733.0	4357.4	3959.7	3565.7	3132.1	2768.1	2508.5	2413.4	2393.7
15°	5153.7	5018.1	4593.9	4098.9	3555.3	2997.7	2390.2	1954.3	1738.8	1691.2	1680.8
17.5°	5156.1	4965.9	4436.2	3818.4	3081.1	2321.9	1634.5	1357.4	1358.6	1435.1	1444.3
20°	5131.7	4888.3	4244.9	3469.4	2513.1	1605.4	1122.1	1074.6	1249.6	1440.8	1464.0
22.5°	5076.1	4785.2	4028.2	3062.6	1862.8	1057.2	868.2	920.3	1146.4	1380.6	1407.3
25°	5005.4	4660.0	3772.0	2590.7	1233.4	755.8	727.9	791.8	944.7	1101.2	1116.2
27.5°	4909.1	4511.5	3484.5	2050.6	801.0	622.5	641.0	683.9	746.5	816.1	823.1
30°	4785.2	4334.1	3177.3	1495.3	605.1	559.9	586.6	609.8	636.4	675.8	679.2
32.5°	4642.6	4163.8	2862.0	1032.9	536.7	527.4	548.3	559.9	580.7	605.1	607.4
35°	4523.2	4001.5	2535.2	730.3	507.7	503.1	517.0	521.6	541.3	568.0	570.3
37.5°	4454.7	3869.3	2197.8	588.9	488.0	481.1	489.2	489.2	517.0	556.4	562.2
40°	4459.3	3796.4	1860.4	532.0	471.8	462.5	463.7	463.7	499.6	542.5	545.9
42.5°	4585.7	3814.9	1561.4	510.0	459.0	448.6	442.8	446.3	476.4	504.2	506.6
45°	4882.4	3945.8	1280.9	496.1	446.3	442.8	430.0	428.9	440.5	453.3	453.3
47.5°	5369.4	4204.3	1090.8	486.8	435.9	434.7	419.6	404.6	403.3	408.1	408.1
50°	6161.0	4649.5	963.3	476.4	428.9	419.6	402.2	379.0	370.9	374.4	374.4
52.5°	7348.1	5443.5	914.6	462.5	413.8	398.7	379.0	355.9	348.9	350.1	350.1
55°	8904.9	6663.0	907.7	446.3	397.6	373.3	357.0	339.6	331.5	333.9	333.9
57.5°	10807.1	8349.6	1031.6	420.7	375.5	347.8	338.5	326.9	321.1	324.6	323.5
60°	13119.7	10556.6	1530.1	394.1	353.5	324.6	324.6	315.3	310.7	314.1	313.0
62.5°	15783.4	13091.8	2151.5	374.4	330.4	306.1	310.7	306.1	301.4	303.7	302.6
65°	18145.8	14743.7	2014.7	359.4	307.2	288.7	296.8	294.4	290.9	293.3	292.2
67.5°	18214.3	14131.7	1131.4	343.1	285.2	271.3	282.8	281.7	279.4	281.7	280.5
70°	16255.2	11932.6	637.5	313.0	262.0	250.4	266.6	265.5	263.1	267.8	266.6
72.5°	13023.4	8659.1	466.0	275.9	238.8	228.3	246.9	245.7	245.7	252.7	249.2
75°	7494.1	4455.9	372.0	236.5	214.4	206.3	222.6	223.7	226.1	235.3	228.3
77.5°	2136.3	1388.7	303.7	200.5	184.3	180.9	197.0	199.4	200.5	210.9	201.7
80°	794.0	639.9	250.4	168.1	150.7	151.8	166.9	170.4	171.5	182.0	170.4
82.5°	506.6	422.0	202.9	129.8	118.3	117.1	135.6	140.2	140.2	141.4	134.4
85°	295.6	252.7	153.0	93.9	83.5	80.0	100.9	108.9	105.5	103.2	98.5
87.5°	198.2	173.9	93.9	52.2	45.2	42.9	59.1	65.0	62.6	59.1	55.6
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)