

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: P193615

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193615
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-07-LED-E1-SL2-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 22175 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

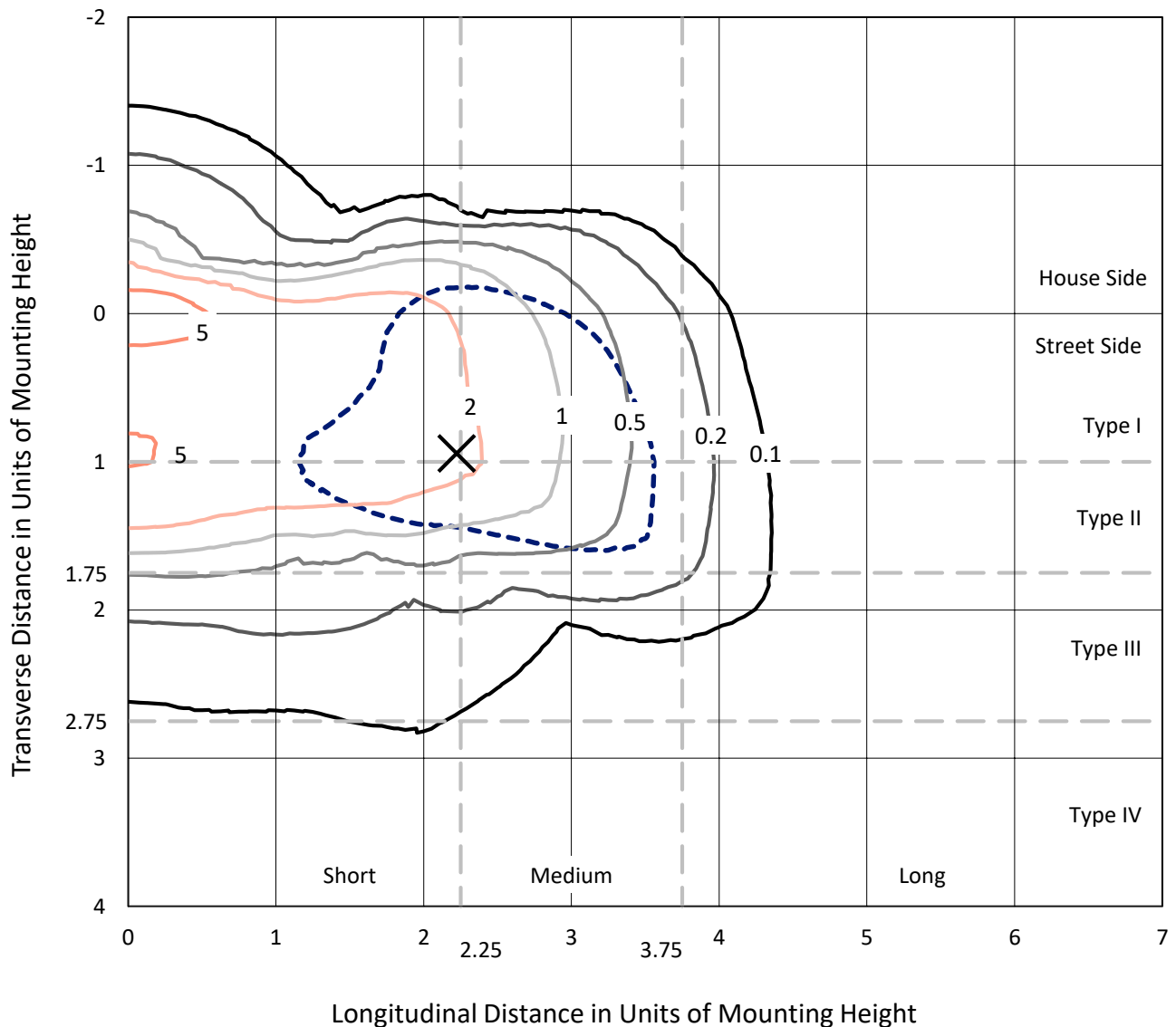
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

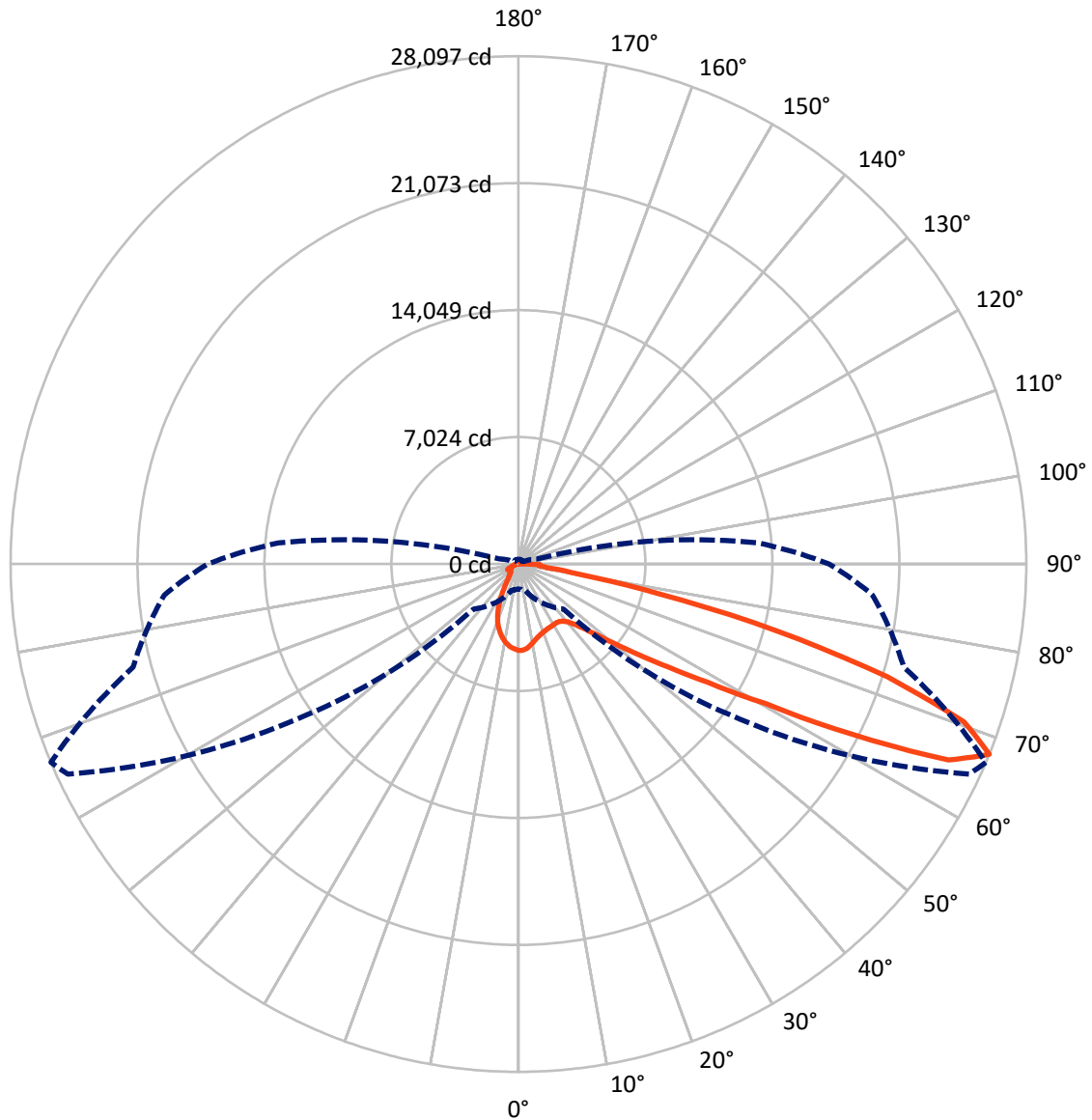
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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
House Side	Lumens	3674.1	0.0	3674.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	18500.8	0.0	18500.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	22175.0	0.0	22175.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.1	1.8
10°-20°	944.2	4.3
20°-30°	1279.9	5.8
30°-40°	1819.5	8.2
40°-50°	3044.1	13.7
50°-60°	4815.7	21.7
60°-70°	6134.8	27.7
70°-80°	3213.4	14.5
80°-90°	515.4	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°	22175.0	100.0
0°-180°	22175.0	100.0



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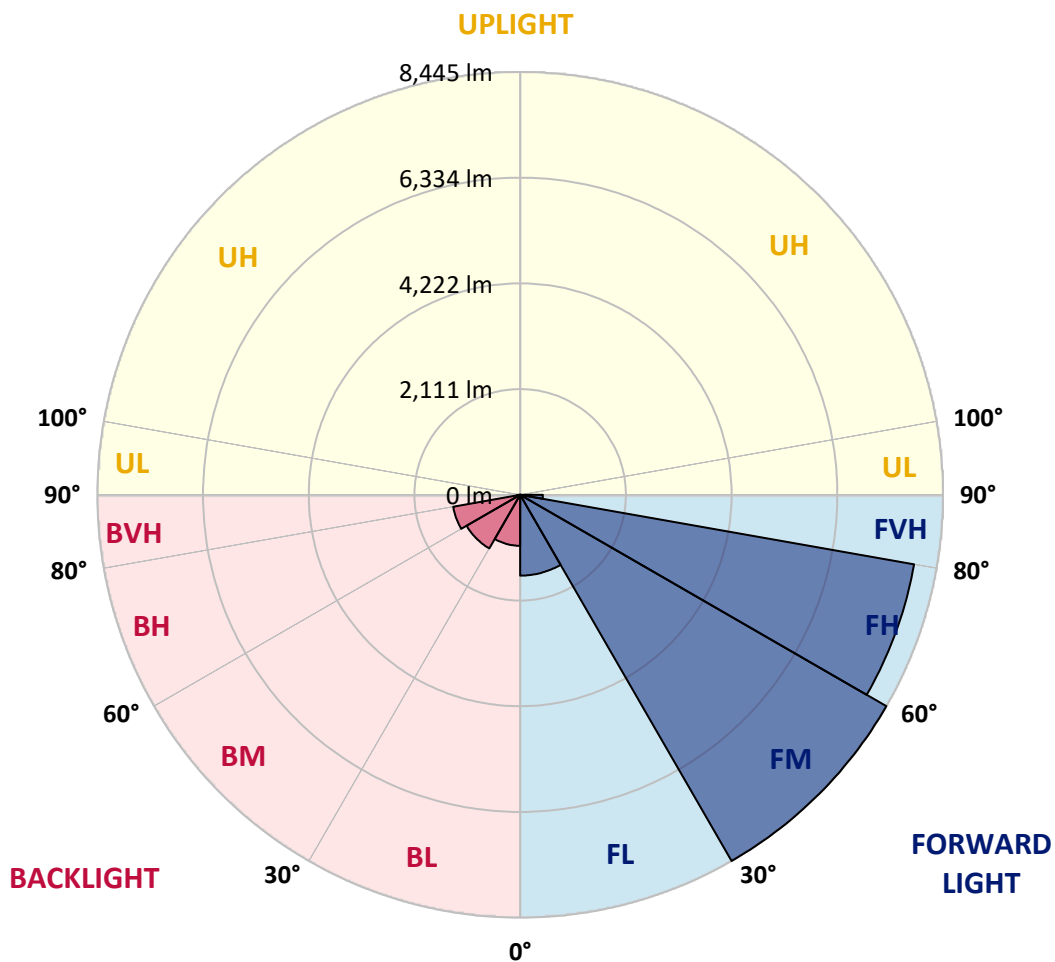
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1613.8	7.3			
FM (30°-60°)	8444.7	38.1			
FH (60°-80°)	7989.2	36.0			G4/12000
FVH (80°-90°)	453.2	2.0			G3/500
BL (0°-30°)	1018.4	4.6	B3/2500		
BM (30°-60°)	1234.6	5.6	B2/2500		
BH (60°-80°)	1359.0	6.1	B3/2500		G3/2500
BVH (80°-90°)	62.2	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°	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1
2.5°	4586.3	4593.9	4618.0	4633.3	4702.2	4731.7	4752.5	4773.3	4776.5	4786.4	4776.5
5°	4105.1	4121.5	4166.3	4216.6	4350.1	4455.0	4565.5	4680.3	4701.1	4775.4	4796.2
7.5°	3732.2	3727.8	3765.0	3825.2	3961.9	4107.3	4300.8	4529.4	4574.2	4741.5	4822.5
10°	3459.9	3456.6	3496.0	3558.3	3688.5	3826.3	4045.0	4357.7	4421.1	4688.0	4847.6
12.5°	3258.7	3259.8	3299.2	3368.1	3500.4	3639.3	3861.2	4191.5	4272.4	4625.6	4873.9
15°	3125.3	3134.1	3165.8	3239.0	3368.1	3506.9	3724.6	4066.8	4157.6	4576.4	4903.4
17.5°	3080.5	3094.7	3105.6	3159.2	3269.6	3408.5	3621.8	3975.0	4071.2	4542.5	4929.6
20°	3122.0	3138.4	3117.6	3136.2	3206.2	3328.7	3540.8	3902.8	4001.2	4504.2	4932.9
22.5°	3300.3	3315.6	3254.3	3200.8	3196.4	3270.7	3474.1	3845.9	3947.6	4475.8	4934.0
25°	3614.1	3624.0	3521.2	3396.5	3275.1	3250.0	3427.1	3806.6	3914.8	4450.7	4913.2
27.5°	3999.0	4006.7	3888.6	3704.9	3461.0	3299.2	3410.7	3783.6	3896.2	4428.8	4878.2
30°	4467.1	4503.1	4344.6	4112.8	3757.4	3444.6	3443.5	3771.6	3875.5	4391.6	4809.3
32.5°	4946.0	4961.3	4852.0	4616.9	4156.5	3700.5	3535.4	3780.3	3870.0	4346.8	4721.9
35°	5431.6	5451.2	5380.2	5191.0	4702.2	4075.6	3714.7	3831.7	3903.9	4331.5	4660.6
37.5°	6060.3	6086.6	5988.2	5769.5	5365.9	4584.1	4013.2	3960.8	4007.8	4375.2	4642.0
40°	7054.4	7042.3	6754.7	6428.9	6092.0	5234.7	4439.7	4179.5	4206.8	4516.3	4698.9
42.5°	8211.3	8181.8	7686.4	7174.6	6890.3	6022.1	5004.0	4558.9	4553.5	4794.0	4899.0
45°	9134.2	9110.2	8664.0	8033.1	7805.6	6918.8	5733.4	5124.3	5083.8	5234.7	5268.6
47.5°	9634.0	9635.1	9378.1	8863.0	8857.6	8058.2	6670.5	5942.2	5872.2	5943.3	5907.2
50°	9459.0	9482.0	9454.6	9290.6	9817.7	9552.0	7894.2	7082.8	6941.7	7011.7	6872.8
52.5°	8612.6	8642.2	8804.0	9055.5	10221.2	11357.4	9691.9	8500.0	8336.0	8310.8	8156.6
55°	7112.3	7148.4	7478.6	8162.1	9885.5	12570.1	12528.6	10306.5	10045.2	9807.9	9742.2
57.5°	4902.3	4962.4	5493.9	6508.7	8799.6	12936.4	15906.5	12881.8	12350.3	11521.4	11536.7
60°	2763.3	2833.3	3459.9	4381.8	6608.2	12538.4	18476.3	16782.4	15660.4	13528.0	13641.8
62.5°	1757.3	1832.8	2308.4	3044.4	3965.1	10395.1	19529.3	22205.2	20780.3	16001.6	16113.1
65°	1422.7	1455.5	1679.7	2512.9	2879.3	6262.6	18730.0	26672.3	26140.8	19141.1	18620.6
67.5°	1388.8	1399.7	1515.6	2109.4	2761.2	3520.1	14939.8	27507.7	28097.1	22072.9	19664.9
70°	1372.4	1410.7	1708.1	2013.2	2644.2	2968.9	8977.9	25217.9	26148.5	22839.4	18275.0
72.5°	666.0	663.8	859.5	1820.7	2978.8	3079.4	4612.5	20404.1	21338.0	19787.4	15017.4
75°	536.9	491.0	469.1	667.1	2864.0	3180.0	2939.4	14039.8	14715.6	13266.7	9231.6
77.5°	509.6	454.9	416.6	417.7	1210.5	3372.4	2490.0	7770.6	7967.4	5992.5	2529.3
80°	422.1	371.8	344.5	388.2	586.1	3211.7	2692.3	3516.8	3227.0	1471.9	842.0
82.5°	293.1	266.8	259.2	325.9	469.1	2288.8	3130.8	1889.6	1584.5	737.0	519.4
85°	187.0	159.7	177.2	237.3	365.2	1056.3	3224.8	1473.0	1171.2	468.0	293.1
87.5°	86.4	70.0	87.5	131.2	238.4	364.1	3068.4	1654.5	1206.2	247.1	184.8
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°	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1	4783.1
2.5°	4785.3	4764.5	4748.1	4717.5	4683.6	4650.8	4621.3	4584.1	4573.1	4563.3	4578.6
5°	4800.6	4779.8	4719.7	4625.6	4521.7	4424.4	4327.1	4244.0	4192.6	4164.2	4180.6
7.5°	4823.6	4794.0	4669.4	4496.6	4309.6	4139.0	3962.9	3821.9	3718.0	3668.8	3683.0
10°	4844.3	4787.5	4584.1	4324.9	4051.5	3797.8	3520.1	3290.4	3119.8	3030.2	3052.0
12.5°	4853.1	4762.3	4464.9	4110.6	3735.5	3363.7	2954.7	2611.3	2366.4	2276.7	2258.1
15°	4861.8	4733.9	4333.7	3866.7	3353.9	2827.9	2254.9	1843.7	1640.3	1595.5	1585.6
17.5°	4864.0	4684.7	4184.9	3602.1	2906.6	2190.3	1541.9	1280.5	1281.6	1353.8	1362.5
20°	4841.1	4611.4	4004.5	3272.9	2370.8	1514.5	1058.5	1013.7	1178.8	1359.3	1381.1
22.5°	4788.6	4514.1	3800.0	2889.1	1757.3	997.3	819.1	868.3	1081.5	1302.4	1327.5
25°	4721.9	4396.0	3558.3	2444.0	1163.5	713.0	686.7	746.9	891.2	1038.9	1053.1
27.5°	4631.1	4256.0	3287.1	1934.5	755.6	587.2	604.7	645.2	704.2	769.8	776.4
30°	4514.1	4088.7	2997.4	1410.7	570.8	528.2	553.3	575.2	600.3	637.5	640.8
32.5°	4379.6	3928.0	2699.9	974.3	506.3	497.6	517.2	528.2	547.9	570.8	573.0
35°	4266.9	3774.9	2391.5	688.9	479.0	474.6	487.7	492.1	510.7	535.8	538.0
37.5°	4202.4	3650.2	2073.3	555.5	460.4	453.8	461.5	461.5	487.7	524.9	530.4
40°	4206.8	3581.3	1755.1	501.9	445.1	436.3	437.4	437.4	471.3	511.8	515.1
42.5°	4326.0	3598.8	1473.0	481.2	433.0	423.2	417.7	421.0	449.4	475.7	477.9
45°	4605.9	3722.4	1208.3	468.0	421.0	417.7	405.7	404.6	415.5	427.6	427.6
47.5°	5065.2	3966.2	1029.0	459.3	411.2	410.1	395.9	381.6	380.5	384.9	384.9
50°	5812.1	4386.1	908.7	449.4	404.6	395.9	379.5	357.6	349.9	353.2	353.2
52.5°	6931.9	5135.2	862.8	436.3	390.4	376.2	357.6	335.7	329.2	330.2	330.2
55°	8400.5	6285.6	856.2	421.0	375.1	352.1	336.8	320.4	312.7	314.9	314.9
57.5°	10195.0	7876.7	973.2	397.0	354.3	328.1	319.3	308.4	302.9	306.2	305.1
60°	12376.6	9958.8	1443.5	371.8	333.5	306.2	306.2	297.4	293.1	296.3	295.3
62.5°	14889.5	12350.3	2029.6	353.2	311.7	288.7	293.1	288.7	284.3	286.5	285.4
65°	17118.1	13908.6	1900.6	339.0	289.8	272.3	279.9	277.8	274.5	276.7	275.6
67.5°	17182.6	13331.2	1067.3	323.7	269.0	255.9	266.8	265.7	263.5	265.7	264.6
70°	15334.5	11256.8	601.4	295.3	247.1	236.2	251.5	250.4	248.2	252.6	251.5
72.5°	12285.8	8168.7	439.6	260.3	225.3	215.4	232.9	231.8	231.8	238.4	235.1
75°	7069.7	4203.5	351.0	223.1	202.3	194.6	210.0	211.1	213.2	222.0	215.4
77.5°	2015.4	1310.0	286.5	189.2	173.9	170.6	185.9	188.1	189.2	199.0	190.3
80°	749.1	603.6	236.2	158.6	142.2	143.3	157.5	160.7	161.8	171.7	160.7
82.5°	477.9	398.0	191.4	122.5	111.5	110.4	127.9	132.3	132.3	133.4	126.8
85°	278.8	238.4	144.3	88.6	78.7	75.5	95.1	102.8	99.5	97.3	92.9
87.5°	187.0	164.0	88.6	49.2	42.6	40.5	55.8	61.2	59.1	55.8	52.5
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)