

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: P191892

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191892
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-SL2-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1050mA 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: 23522 lumens
Efficiency: N/A
Efficacy: 104.5 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

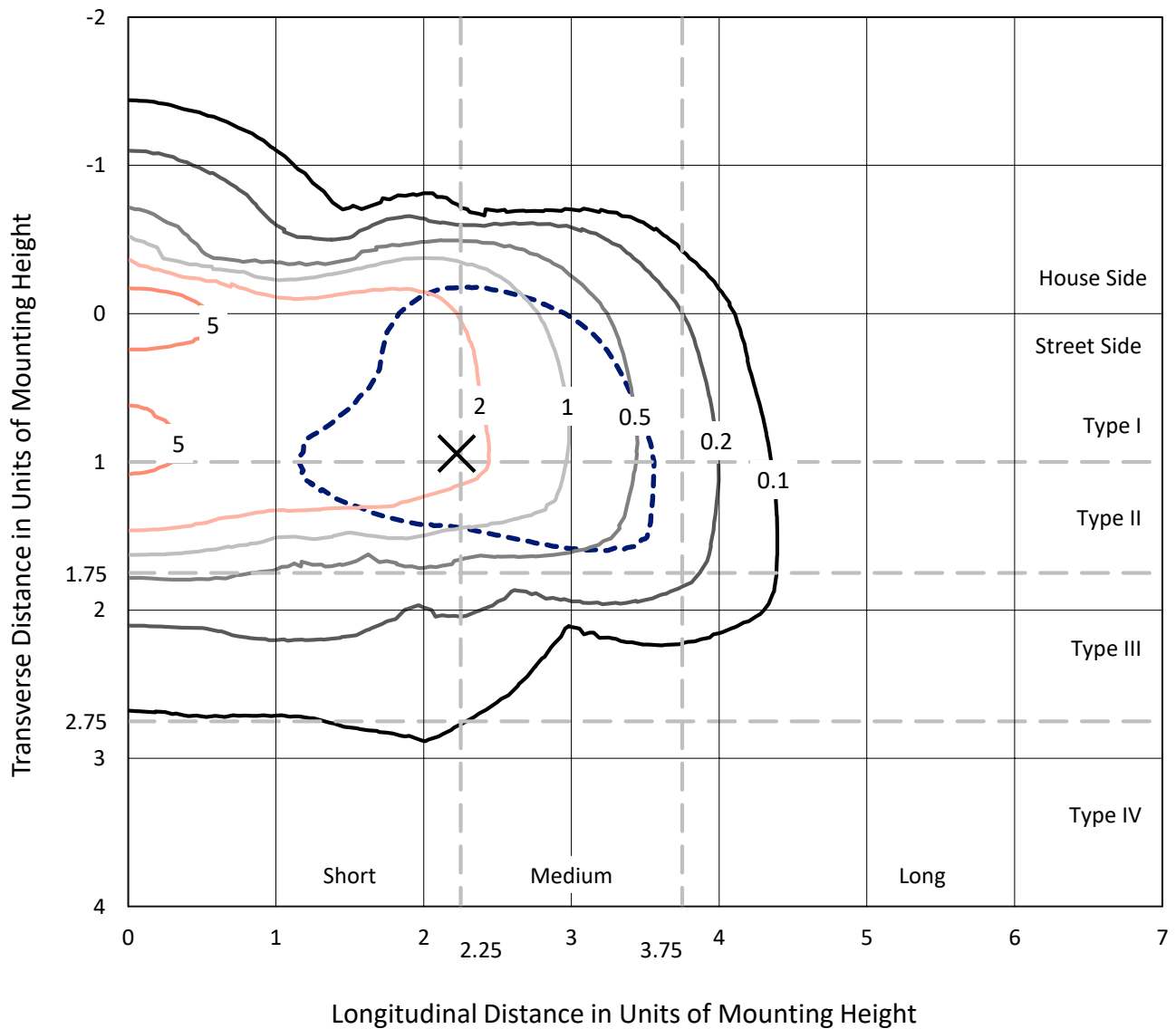
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

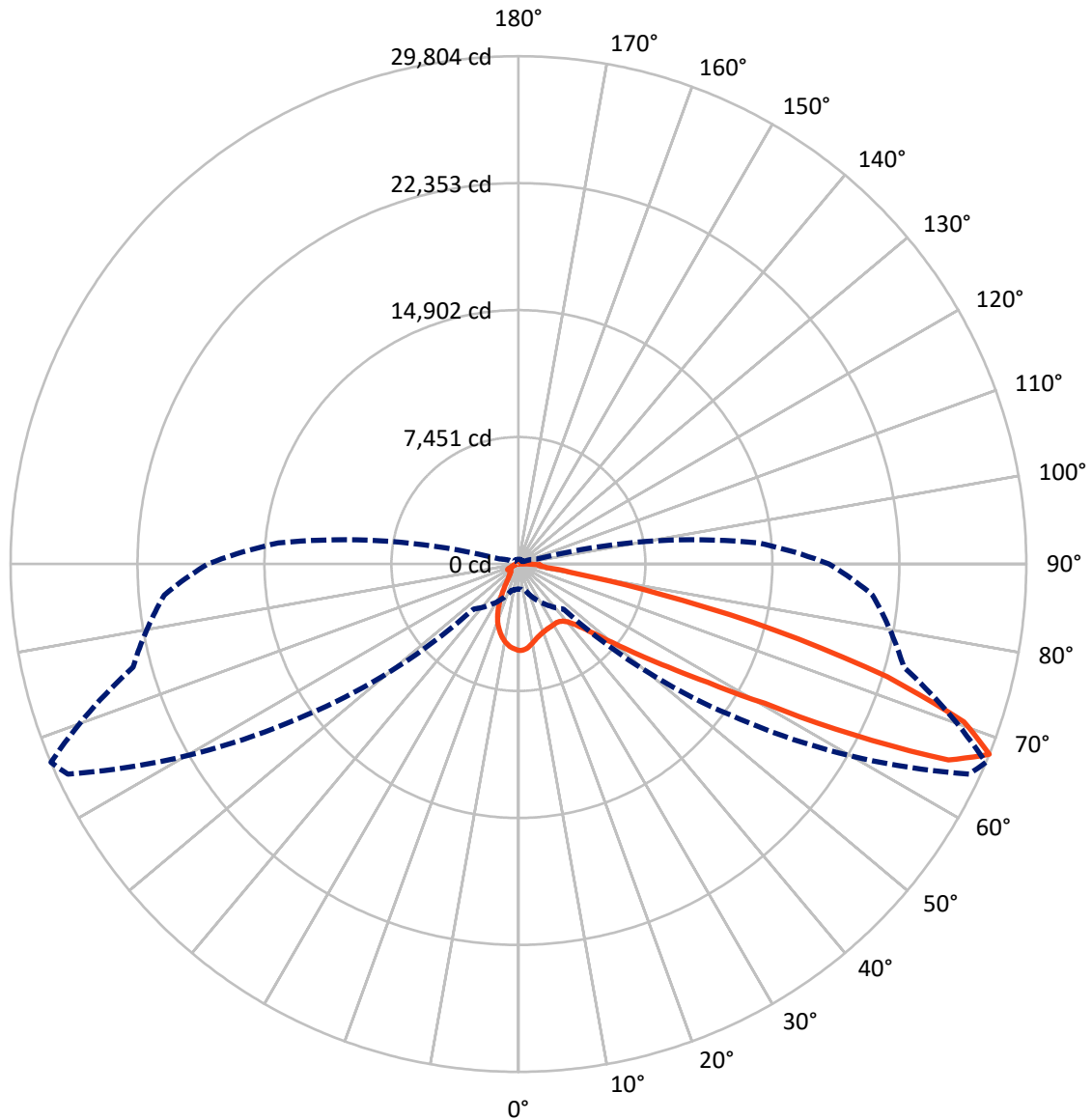
× Max cd
 - - - 1/2 Max cd



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	3897.3	0.0	3897.3
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	19624.7	0.0	19624.7
	% Fixture	83.4	0.0	83.4
Total	Lumens	23522.0	0.0	23522.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.9	1.8
10°-20°	1001.6	4.3
20°-30°	1357.6	5.8
30°-40°	1930.0	8.2
40°-50°	3229.0	13.7
50°-60°	5108.3	21.7
60°-70°	6507.4	27.7
70°-80°	3408.6	14.5
80°-90°	546.7	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°	23522.0	100.0
0°-180°	23522.0	100.0



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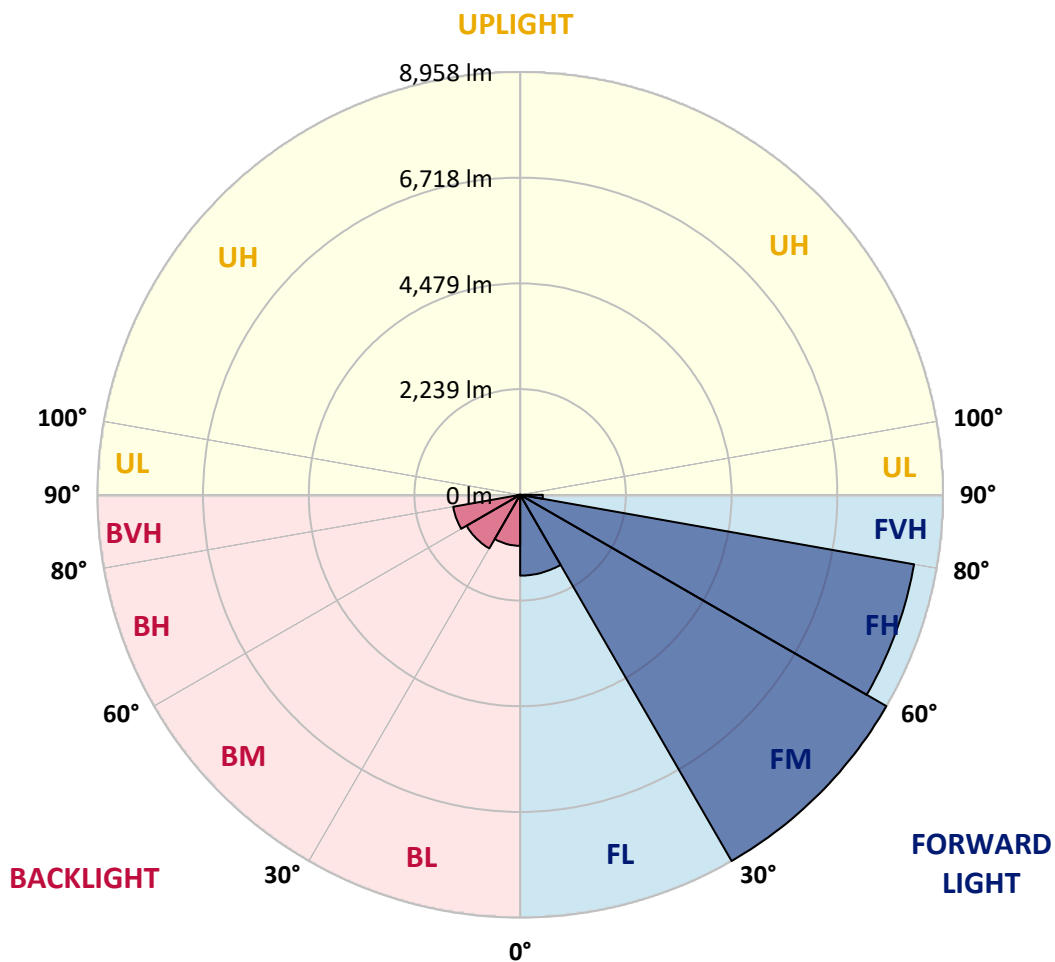
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1711.8	7.3			
FM	(30°-60°)	8957.7	38.1			
FH	(60°-80°)	8474.5	36.0			G4/12000
FVH	(80°-90°)	480.7	2.0			G3/500
BL	(0°-30°)	1080.2	4.6	B3/2500		
BM	(30°-60°)	1309.6	5.6	B2/2500		
BH	(60°-80°)	1441.5	6.1	B3/2500		G3/2500
BVH	(80°-90°)	66.0	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°	5073.6	5073.6	5073.6	5073.6	5073.6	5073.6	5073.6	5073.6	5073.6	5073.6	5073.6
2.5°	4864.8	4873.0	4898.5	4914.7	4987.8	5019.1	5041.2	5063.2	5066.7	5077.1	5066.7
5°	4354.5	4371.9	4419.4	4472.8	4614.3	4725.7	4842.8	4964.6	4986.6	5065.5	5087.6
7.5°	3958.9	3954.3	3993.7	4057.5	4202.5	4356.8	4562.1	4804.5	4852.1	5029.6	5115.4
10°	3670.1	3666.6	3708.4	3774.5	3912.5	4058.7	4290.7	4622.4	4689.7	4972.7	5142.1
12.5°	3456.7	3457.8	3499.6	3572.7	3713.0	3860.3	4095.8	4446.1	4531.9	4906.6	5169.9
15°	3315.1	3324.4	3358.1	3435.8	3572.7	3720.0	3950.8	4313.9	4410.1	4854.4	5201.2
17.5°	3267.6	3282.7	3294.3	3351.1	3468.3	3615.6	3841.8	4216.4	4318.5	4818.4	5229.1
20°	3311.7	3329.1	3307.0	3326.7	3401.0	3530.9	3755.9	4139.9	4244.3	4777.8	5232.6
22.5°	3500.7	3517.0	3452.0	3395.2	3390.5	3469.4	3685.2	4079.6	4187.4	4747.7	5233.7
25°	3833.6	3844.1	3735.1	3602.8	3474.1	3447.4	3635.3	4037.8	4152.6	4721.0	5211.7
27.5°	4242.0	4250.1	4124.8	3929.9	3671.3	3499.6	3617.9	4013.4	4132.9	4697.8	5174.6
30°	4738.4	4776.7	4608.5	4362.6	3985.6	3653.9	3652.7	4000.7	4110.9	4658.4	5101.5
32.5°	5246.5	5262.7	5146.7	4897.3	4409.0	3925.3	3750.1	4010.0	4105.1	4610.8	5008.7
35°	5761.5	5782.4	5707.0	5506.3	4987.8	4323.1	3940.4	4064.5	4141.0	4594.6	4943.7
37.5°	6428.5	6456.3	6351.9	6119.9	5691.9	4862.5	4257.0	4201.4	4251.2	4641.0	4924.0
40°	7482.9	7470.1	7165.0	6819.4	6462.1	5552.7	4709.4	4433.3	4462.3	4790.6	4984.3
42.5°	8710.1	8678.8	8153.3	7610.5	7308.9	6387.9	5307.9	4835.8	4830.0	5085.2	5196.6
45°	9689.1	9663.6	9190.3	8521.0	8279.7	7339.0	6081.6	5435.5	5392.6	5552.7	5588.7
47.5°	10219.2	10220.4	9947.8	9401.4	9395.6	8547.7	7075.7	6303.2	6229.0	6304.3	6266.1
50°	10033.6	10058.0	10029.0	9855.0	10414.1	10132.2	8373.7	7513.0	7363.4	7437.6	7290.3
52.5°	9135.8	9167.1	9338.8	9605.6	10842.1	12047.3	10280.7	9016.3	8842.3	8815.6	8652.1
55°	7544.3	7582.6	7932.9	8657.9	10486.0	13333.7	13289.6	10932.6	10655.3	10403.6	10334.0
57.5°	5200.1	5263.9	5827.6	6904.0	9334.1	13722.3	16872.7	13664.3	13100.5	12221.3	12237.5
60°	2931.2	3005.4	3670.1	4647.9	7009.6	13300.0	19598.6	17801.8	16611.7	14349.8	14470.4
62.5°	1864.0	1944.1	2448.7	3229.3	4206.0	11026.5	20715.6	23554.0	22042.6	16973.6	17091.9
65°	1509.1	1543.9	1781.7	2665.6	3054.2	6643.1	19867.7	28292.4	27728.7	20303.8	19751.7
67.5°	1473.1	1484.7	1607.7	2237.6	2928.9	3733.9	15847.3	29178.6	29803.9	23413.7	20859.4
70°	1455.7	1496.3	1811.8	2135.5	2804.8	3149.3	9523.2	26749.7	27736.8	24226.8	19385.1
72.5°	706.4	704.1	911.7	1931.3	3159.7	3266.4	4892.7	21643.6	22634.2	20989.4	15929.6
75°	569.5	520.8	497.6	707.6	3037.9	3373.1	3118.0	14892.6	15609.5	14072.6	9792.3
77.5°	540.5	482.5	441.9	443.1	1284.1	3577.3	2641.2	8242.6	8451.4	6356.5	2683.0
80°	447.7	394.4	365.4	411.8	621.7	3406.8	2855.8	3730.4	3423.0	1561.3	893.2
82.5°	310.9	283.0	274.9	345.7	497.6	2427.8	3320.9	2004.4	1680.8	781.8	551.0
85°	198.4	169.4	187.9	251.7	387.4	1120.5	3420.7	1562.5	1242.3	496.5	310.9
87.5°	91.6	74.2	92.8	139.2	252.9	386.3	3254.8	1755.0	1279.4	262.1	196.0
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°	5073.6	5073.6	5073.6	5073.6	5073.6	5073.6	5073.6	5073.6	5073.6	5073.6	5073.6
2.5°	5076.0	5053.9	5036.5	5004.0	4968.1	4933.3	4902.0	4862.5	4850.9	4840.5	4856.7
5°	5092.2	5070.2	5006.4	4906.6	4796.4	4693.2	4589.9	4501.8	4447.3	4417.1	4434.5
7.5°	5116.6	5085.2	4953.0	4769.7	4571.4	4390.4	4203.7	4054.0	3943.8	3891.6	3906.7
10°	5138.6	5078.3	4862.5	4587.6	4297.6	4028.5	3733.9	3490.3	3309.3	3214.2	3237.4
12.5°	5147.9	5051.6	4736.1	4360.3	3962.4	3568.0	3134.2	2770.0	2510.1	2415.0	2395.3
15°	5157.2	5021.4	4596.9	4101.6	3557.6	2999.6	2391.8	1955.7	1739.9	1692.4	1681.9
17.5°	5159.5	4969.2	4439.1	3820.9	3083.2	2323.4	1635.5	1358.3	1359.5	1436.0	1445.3
20°	5135.1	4891.5	4247.8	3471.7	2514.8	1606.5	1122.8	1075.3	1250.4	1441.8	1465.0
22.5°	5079.4	4788.3	4030.8	3064.6	1864.0	1057.9	868.8	921.0	1147.2	1381.5	1408.2
25°	5008.7	4663.0	3774.5	2592.5	1234.2	756.3	728.5	792.2	945.4	1102.0	1117.0
27.5°	4912.4	4514.5	3486.8	2052.0	801.5	622.9	641.5	684.4	747.0	816.6	823.6
30°	4788.3	4337.1	3179.4	1496.3	605.5	560.3	586.9	610.1	636.8	676.3	679.7
32.5°	4645.6	4166.6	2863.9	1033.5	537.1	527.8	548.7	560.3	581.1	605.5	607.8
35°	4526.1	4004.2	2536.8	730.8	508.1	503.4	517.3	522.0	541.7	568.4	570.7
37.5°	4457.7	3871.9	2199.3	589.3	488.3	481.4	489.5	489.5	517.3	556.8	562.6
40°	4462.3	3798.8	1861.7	532.4	472.1	462.8	464.0	464.0	499.9	542.9	546.3
42.5°	4588.8	3817.4	1562.5	510.4	459.3	448.9	443.1	446.6	476.7	504.6	506.9
45°	4885.7	3948.5	1281.7	496.5	446.6	443.1	430.3	429.2	440.8	453.5	453.5
47.5°	5372.9	4207.2	1091.5	487.2	436.1	435.0	419.9	404.8	403.7	408.3	408.3
50°	6165.2	4652.6	963.9	476.7	429.2	419.9	402.5	379.3	371.2	374.7	374.7
52.5°	7352.9	5447.1	915.2	462.8	414.1	399.0	379.3	356.1	349.1	350.3	350.3
55°	8910.8	6667.4	908.2	446.6	397.9	373.5	357.3	339.9	331.7	334.1	334.1
57.5°	10814.2	8355.1	1032.4	421.1	375.8	348.0	338.7	327.1	321.3	324.8	323.6
60°	13128.4	10563.7	1531.1	394.4	353.8	324.8	324.8	315.5	310.9	314.3	313.2
62.5°	15793.9	13100.5	2152.9	374.7	330.6	306.2	310.9	306.2	301.6	303.9	302.7
65°	18157.9	14753.5	2016.0	359.6	307.4	288.8	296.9	294.6	291.1	293.5	292.3
67.5°	18226.4	14141.0	1132.1	343.3	285.3	271.4	283.0	281.9	279.5	281.9	280.7
70°	16266.0	11940.6	638.0	313.2	262.1	250.6	266.8	265.6	263.3	267.9	266.8
72.5°	13032.1	8664.9	466.3	276.1	239.0	228.5	247.1	245.9	245.9	252.9	249.4
75°	7499.1	4458.9	372.3	236.6	214.6	206.5	222.7	223.9	226.2	235.5	228.5
77.5°	2137.8	1389.6	303.9	200.7	184.4	181.0	197.2	199.5	200.7	211.1	201.8
80°	794.6	640.3	250.6	168.2	150.8	152.0	167.0	170.5	171.7	182.1	170.5
82.5°	506.9	422.2	203.0	129.9	118.3	117.2	135.7	140.4	140.4	141.5	134.6
85°	295.8	252.9	153.1	94.0	83.5	80.0	100.9	109.0	105.6	103.2	98.6
87.5°	198.4	174.0	94.0	52.2	45.2	42.9	59.2	65.0	62.6	59.2	55.7
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)