

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: P193385

Luminaire Tested: **GLEON-AF-07-LED-E1-5NQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28632 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 295
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

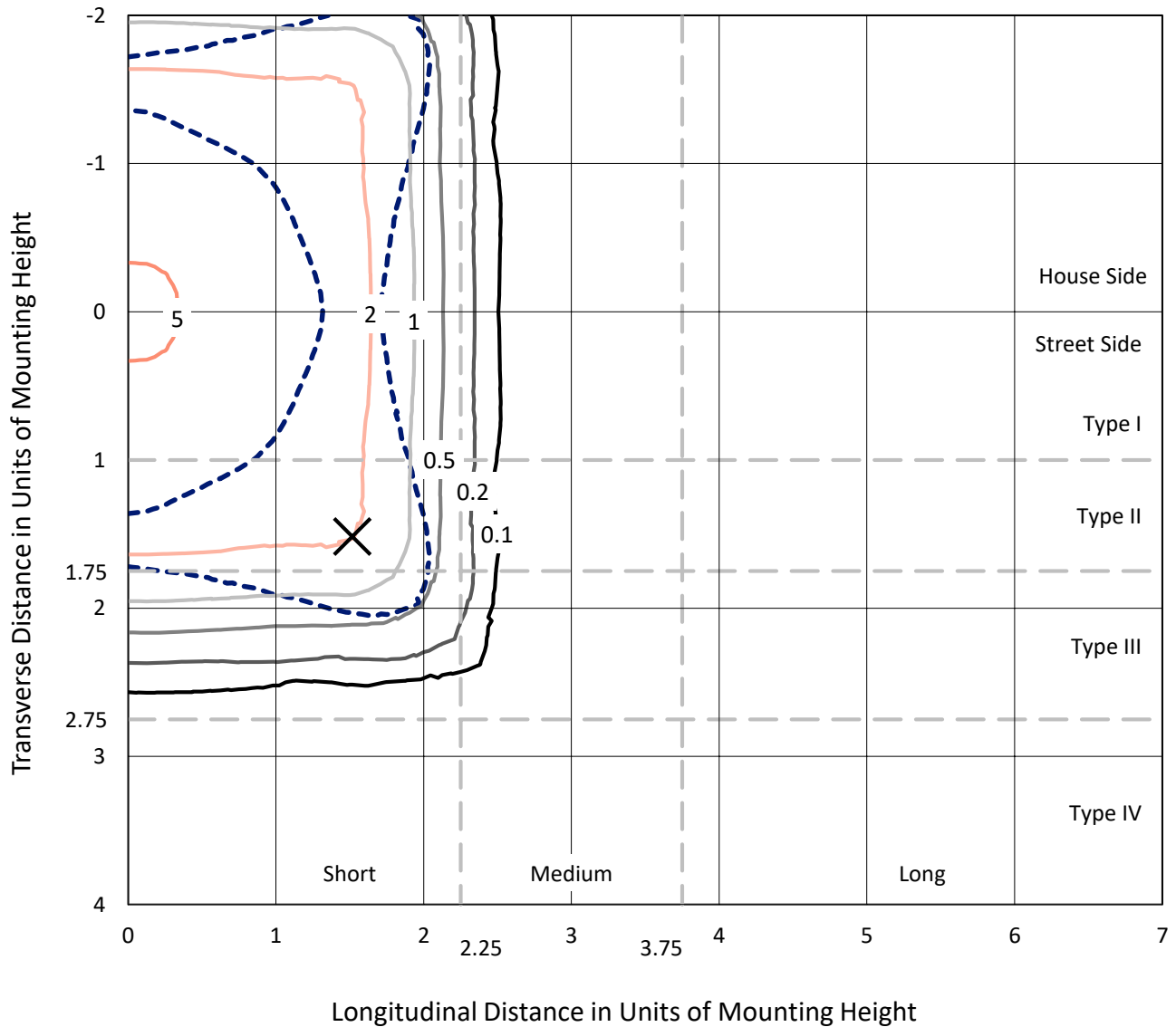


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

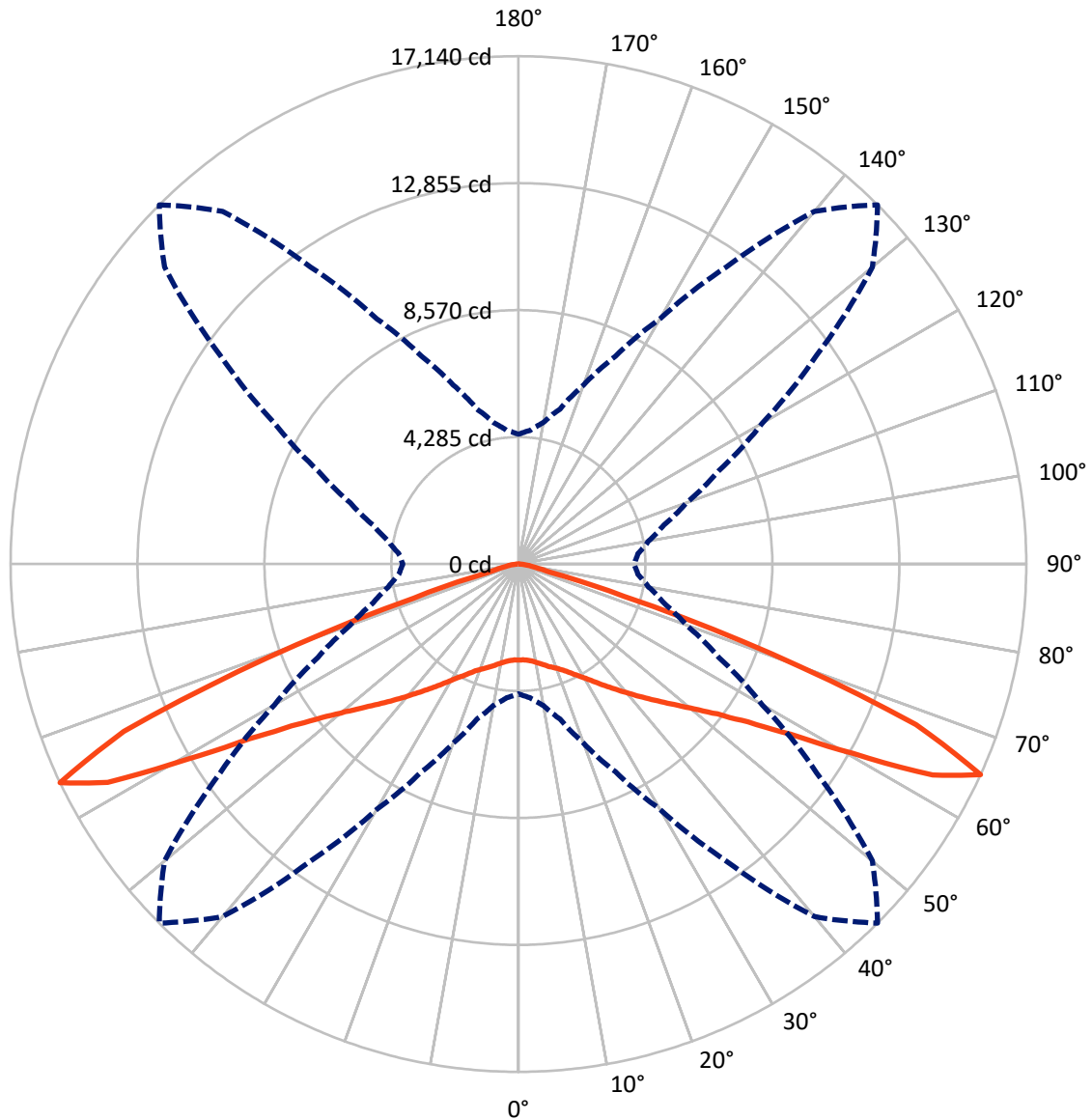


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14316.0	0.0	14316.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14316.0	0.0	14316.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28632.0	0.0	28632.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.8	1.1
10°-20°	1012.7	3.5
20°-30°	1893.6	6.6
30°-40°	3202.6	11.2
40°-50°	5236.6	18.3
50°-60°	8327.1	29.1
60°-70°	7527.1	26.3
70°-80°	952.6	3.3
80°-90°	163.9	0.6
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°	28632.0	100.0
0°-180°	28632.0	100.0



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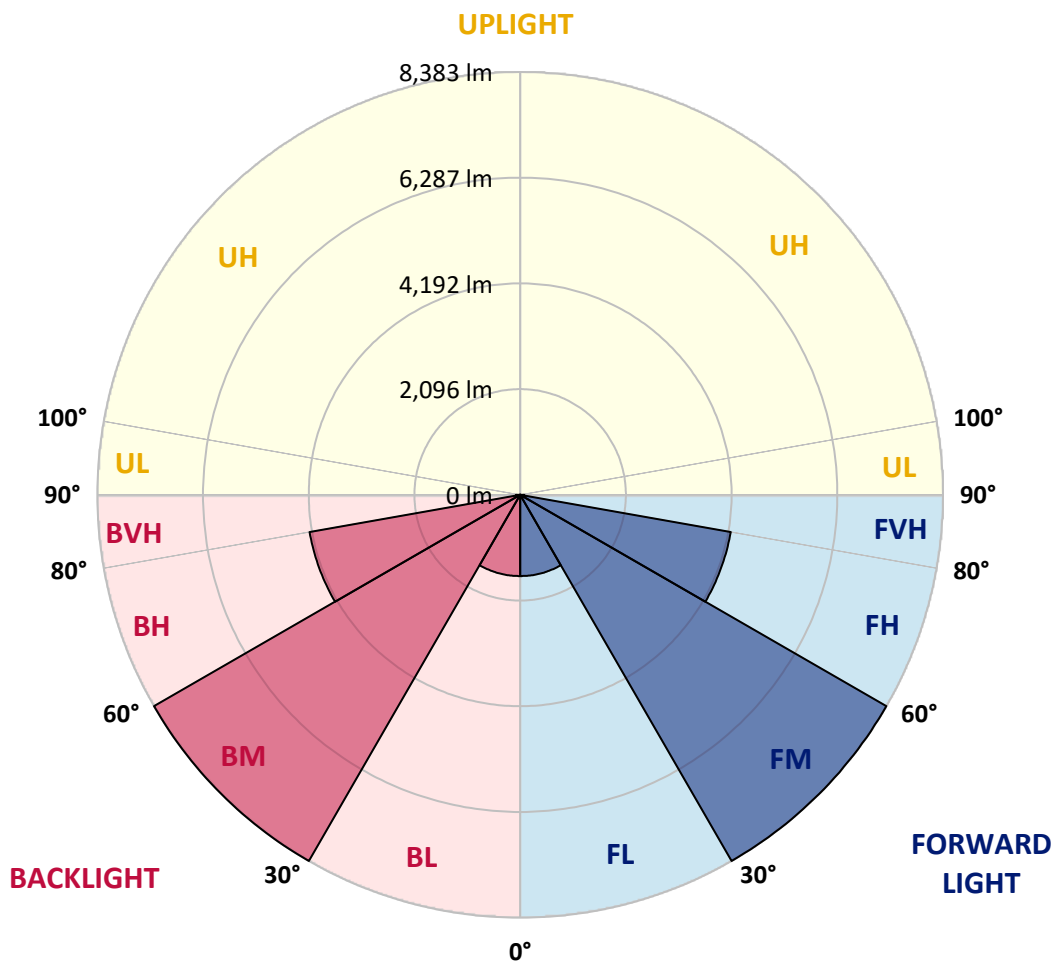
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1611.1	5.6			
FM	(30°-60°)	8383.2	29.3			
FH	(60°-80°)	4239.9	14.8			G2/5000
FVH	(80°-90°)	81.9	0.3			G1/100
BL	(0°-30°)	1611.1	5.6	B3/2500		
BM	(30°-60°)	8383.2	29.3	B4/8500		
BH	(60°-80°)	4239.9	14.8	B4/5000		G2/5000
BVH	(80°-90°)	81.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3239.7	3239.7	3239.7	3239.7	3239.7	3239.7	3239.7	3239.7	3239.7	3239.7	3239.7
2.5°	3242.4	3245.1	3247.8	3245.1	3247.8	3243.7	3241.1	3245.1	3241.1	3237.0	3239.7
5°	3270.6	3271.9	3271.9	3267.9	3271.9	3269.2	3265.2	3270.6	3266.5	3262.5	3265.2
7.5°	3317.5	3322.9	3318.8	3314.8	3317.5	3314.8	3312.1	3313.5	3312.1	3308.1	3309.5
10°	3380.5	3384.5	3381.9	3380.5	3383.2	3381.9	3379.2	3377.8	3379.2	3375.2	3375.2
12.5°	3457.0	3455.6	3454.3	3455.6	3459.6	3459.6	3458.3	3459.6	3462.3	3463.7	3461.0
15°	3532.1	3534.7	3534.7	3534.7	3542.8	3549.5	3553.5	3556.2	3561.6	3562.9	3557.5
17.5°	3625.9	3625.9	3624.6	3625.9	3634.0	3644.7	3648.7	3654.1	3659.4	3663.5	3656.8
20°	3730.5	3733.2	3733.2	3735.9	3746.6	3758.7	3758.7	3761.4	3758.7	3761.4	3757.3
22.5°	3857.9	3865.9	3865.9	3867.3	3878.0	3892.8	3888.7	3892.8	3886.1	3891.4	3886.1
25°	4024.2	4036.2	4033.6	4033.6	4041.6	4051.0	4052.3	4060.4	4059.0	4065.7	4061.7
27.5°	4211.9	4230.7	4236.0	4234.7	4240.1	4249.5	4252.1	4261.5	4256.2	4261.5	4258.8
30°	4437.2	4445.2	4456.0	4460.0	4466.7	4476.1	4476.1	4477.4	4470.7	4478.8	4482.8
32.5°	4670.5	4685.3	4696.0	4720.1	4732.2	4738.9	4737.6	4740.2	4733.5	4744.3	4752.3
35°	4978.9	4989.7	5007.1	5025.9	5042.0	5040.6	5036.6	5037.9	5037.9	5047.3	5055.4
37.5°	5350.4	5353.1	5375.9	5402.7	5410.7	5402.7	5378.5	5373.2	5361.1	5373.2	5386.6
40°	5743.3	5752.7	5798.3	5815.7	5819.7	5805.0	5770.1	5750.0	5723.2	5737.9	5756.7
42.5°	6154.9	6173.7	6215.3	6246.1	6259.5	6250.2	6201.9	6171.0	6136.2	6144.2	6163.0
45°	6610.9	6633.7	6692.7	6722.2	6747.6	6732.9	6686.0	6639.0	6584.0	6588.1	6617.6
47.5°	7120.4	7143.2	7219.7	7269.3	7282.7	7280.0	7227.7	7163.3	7088.2	7085.6	7111.0
50°	7691.7	7714.5	7809.7	7886.1	7925.0	7921.0	7859.3	7768.1	7676.9	7678.3	7710.4
52.5°	8249.5	8277.7	8376.9	8508.3	8584.7	8639.7	8602.2	8516.3	8405.1	8407.7	8437.2
55°	8772.5	8819.4	8933.4	9111.7	9253.9	9408.1	9452.3	9449.6	9382.6	9401.4	9430.9
57.5°	9025.9	9095.6	9271.3	9552.9	9842.5	10156.3	10421.8	10620.3	10704.8	10832.2	10802.7
60°	8545.9	8657.1	8916.0	9330.3	9902.9	10557.3	11258.6	11943.8	12528.5	12969.6	12716.2
62.5°	6997.1	7141.9	7455.7	7986.7	8852.9	9900.2	11242.5	12862.4	14627.0	15691.8	14931.4
65°	4378.2	4528.4	4847.5	5416.1	6429.8	7731.9	9552.9	12237.5	15534.9	17140.0	15592.5
67.5°	1707.0	1788.8	1961.8	2325.2	3086.9	4245.4	6073.1	9119.8	13063.5	14470.2	12820.8
70°	855.5	863.6	895.8	962.8	1126.4	1463.0	2226.0	4228.0	7491.9	9048.7	7222.3
72.5°	618.2	619.5	635.6	665.1	717.4	792.5	937.3	1294.0	2436.5	3723.8	2283.6
75°	473.4	478.7	488.1	504.2	532.4	569.9	622.2	745.6	923.9	1071.4	901.1
77.5°	364.7	375.5	382.2	396.9	414.4	439.8	454.6	501.5	583.3	614.2	604.8
80°	277.6	287.0	301.7	313.8	325.8	337.9	332.6	354.0	396.9	422.4	409.0
82.5°	177.0	187.7	230.6	241.4	246.7	254.8	245.4	246.7	265.5	281.6	265.5
85°	114.0	120.7	146.2	159.6	160.9	166.3	162.3	152.9	152.9	139.5	156.9
87.5°	52.3	53.6	65.7	77.8	80.5	72.4	71.1	68.4	55.0	52.3	56.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3239.7	3239.7	3239.7	3239.7	3239.7	3239.7	3239.7	3239.7
2.5°	3238.4	3241.1	3242.4	3246.4	3247.8	3247.8	3249.1	3251.8
5°	3263.9	3267.9	3269.2	3274.6	3275.9	3274.6	3277.3	3278.6
7.5°	3309.5	3316.2	3318.8	3324.2	3320.2	3325.5	3326.9	3326.9
10°	3376.5	3383.2	3384.5	3389.9	3387.2	3389.9	3389.9	3387.2
12.5°	3465.0	3466.3	3462.3	3466.3	3461.0	3463.7	3459.6	3457.0
15°	3562.9	3558.9	3549.5	3549.5	3541.4	3542.8	3541.4	3540.1
17.5°	3658.1	3650.1	3643.4	3640.7	3634.0	3632.6	3628.6	3628.6
20°	3762.7	3758.7	3754.6	3749.3	3742.6	3735.9	3734.5	3737.2
22.5°	3888.7	3887.4	3887.4	3884.7	3875.3	3868.6	3864.6	3864.6
25°	4057.7	4045.6	4045.6	4044.3	4040.3	4036.2	4028.2	4032.2
27.5°	4248.1	4241.4	4246.8	4245.4	4241.4	4241.4	4236.0	4236.0
30°	4482.8	4480.1	4488.1	4481.4	4468.0	4466.7	4461.3	4454.6
32.5°	4753.7	4751.0	4763.0	4755.0	4733.5	4721.5	4710.7	4705.4
35°	5055.4	5056.7	5071.5	5066.1	5042.0	5033.9	5015.1	5012.5
37.5°	5385.2	5406.7	5432.2	5437.5	5417.4	5412.1	5391.9	5381.2
40°	5772.8	5800.9	5839.8	5849.2	5827.8	5823.7	5795.6	5780.8
42.5°	6185.8	6234.1	6282.3	6290.4	6268.9	6247.5	6220.6	6209.9
45°	6647.1	6704.7	6767.8	6783.8	6751.7	6726.2	6691.3	6691.3
47.5°	7164.7	7237.1	7308.2	7352.4	7322.9	7296.1	7254.5	7227.7
50°	7776.1	7875.4	7967.9	8013.5	7966.6	7915.6	7843.2	7819.1
52.5°	8543.2	8650.4	8730.9	8706.8	8634.4	8563.3	8484.2	8452.0
55°	9522.1	9558.3	9558.3	9467.1	9322.3	9202.9	9078.2	9036.6
57.5°	10746.3	10606.9	10392.3	10120.1	9778.2	9480.5	9279.3	9184.1
60°	12185.2	11514.7	10757.1	10012.8	9401.4	8897.2	8598.1	8461.4
62.5°	13144.0	11390.0	9872.0	8677.3	7797.6	7190.2	6777.1	6616.2
65°	12284.4	9499.3	7466.4	6036.9	5078.2	4460.0	4051.0	3900.8
67.5°	8997.7	5952.5	3975.9	2849.5	2087.9	1665.5	1497.8	1428.1
70°	4038.9	2095.9	1284.6	1003.0	864.9	793.8	763.0	752.3
72.5°	1217.6	881.0	742.9	670.5	615.5	580.6	555.2	552.5
75°	734.8	611.5	543.1	500.2	465.3	437.1	423.7	419.7
77.5°	513.6	449.2	417.0	386.2	359.4	337.9	325.8	316.5
80°	360.7	329.9	315.1	297.7	280.3	260.1	242.7	234.7
82.5°	241.4	234.7	234.7	223.9	209.2	190.4	155.5	147.5
85°	155.5	154.2	156.9	152.9	142.1	122.0	100.6	95.2
87.5°	72.4	73.8	81.8	80.5	77.8	64.4	51.0	48.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)