

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: P191696

Luminaire Tested: **GLEON-AF-08-LED-E1-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-5WQ-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50248 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 445
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

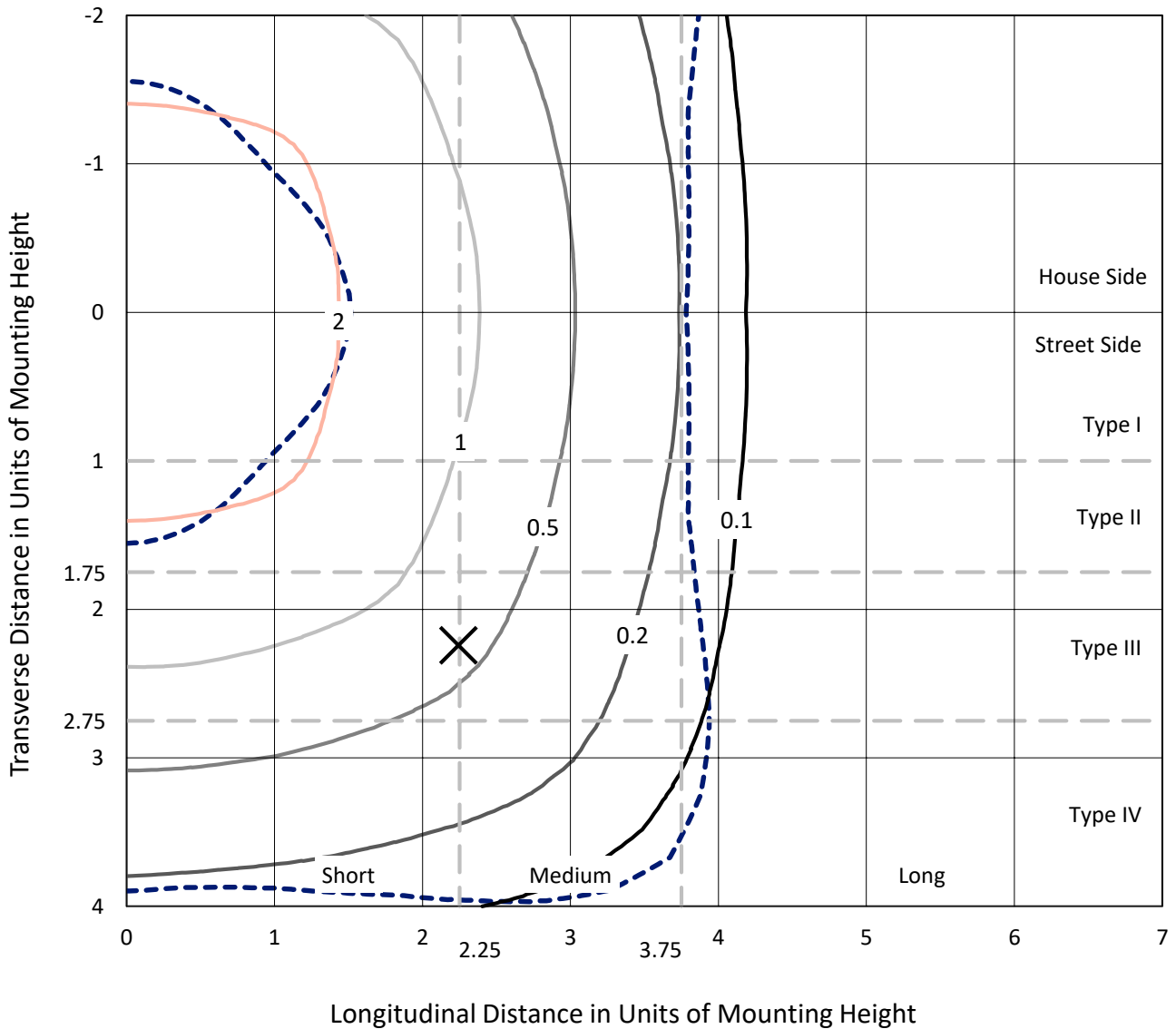


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Iso-Footcandle Lines of Horizontal Illumination

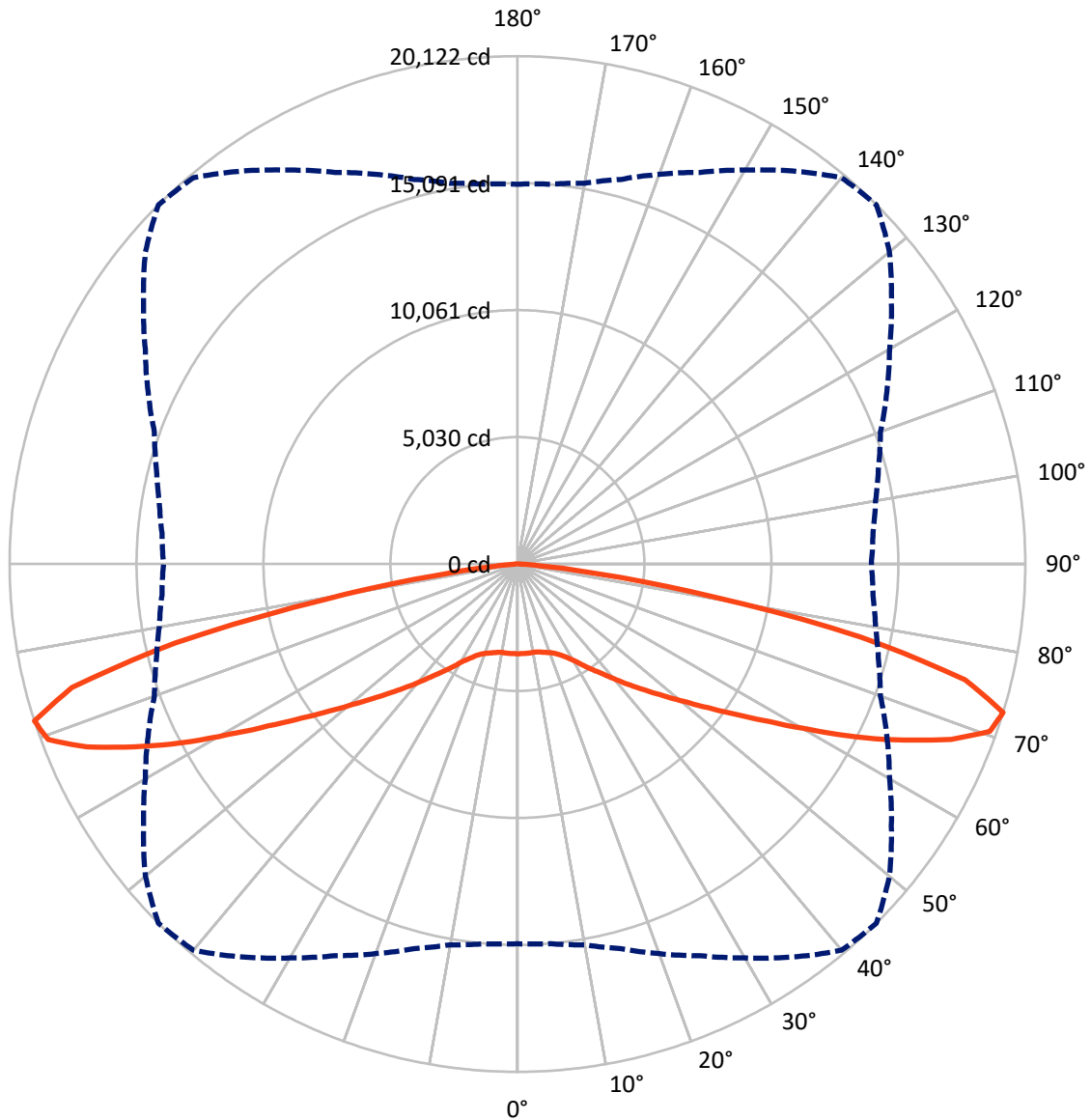
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25124.0	0.0	25124.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25124.0	0.0	25124.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	50248.0	0.0	50248.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	339.8	0.7
10°-20°	1032.0	2.1
20°-30°	1885.8	3.8
30°-40°	3251.4	6.5
40°-50°	5558.3	11.1
50°-60°	9009.3	17.9
60°-70°	14946.1	29.7
70°-80°	13164.0	26.2
80°-90°	1061.4	2.1
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°	50248.0	100.0
0°-180°	50248.0	100.0



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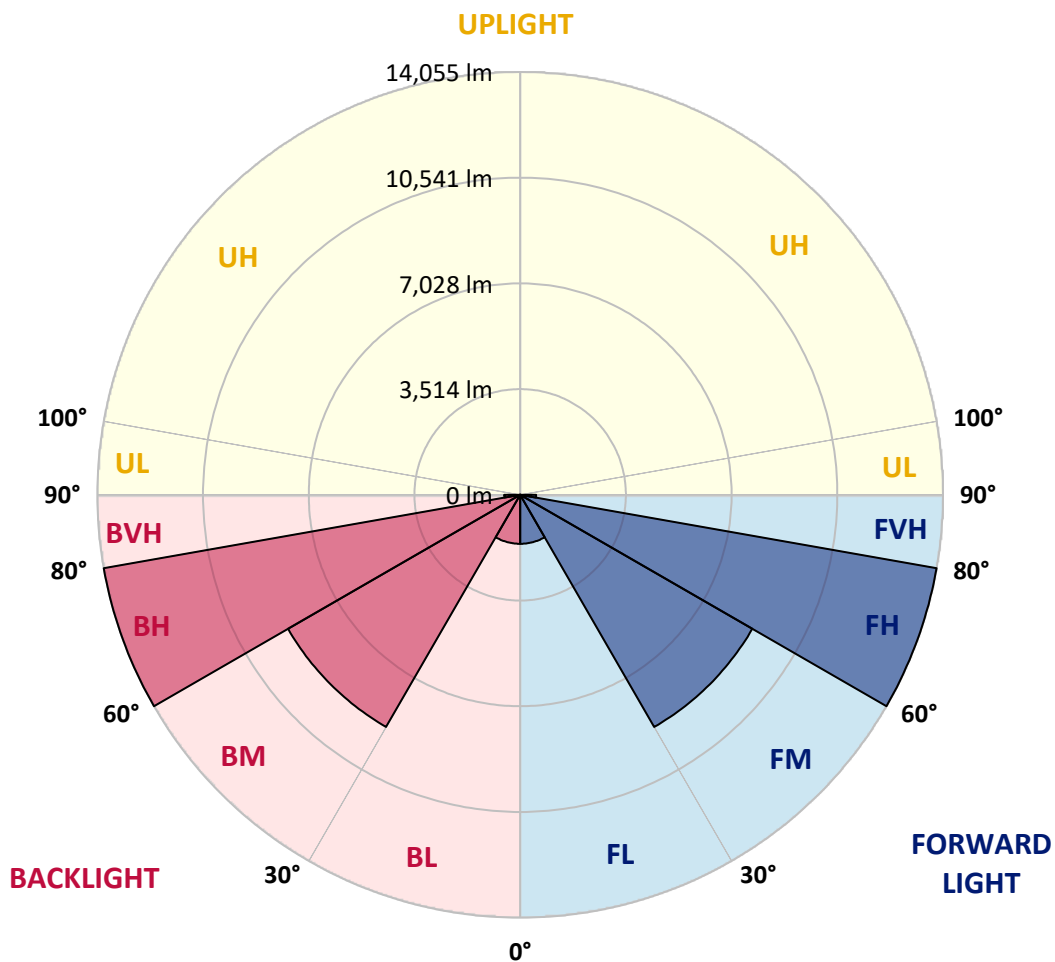
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1628.8	3.2			
FM	(30°-60°)	8909.5	17.7			
FH	(60°-80°)	14055.0	28.0			G5
FVH	(80°-90°)	530.7	1.1			G4/750
BL	(0°-30°)	1628.8	3.2	B3/2500		
BM	(30°-60°)	8909.5	17.7	B5		
BH	(60°-80°)	14055.0	28.0	B5		G5
BVH	(80°-90°)	530.7	1.1			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3558.3	3558.3	3558.3	3558.3	3558.3	3558.3	3558.3	3558.3	3558.3	3558.3	3558.3
2.5°	3558.3	3560.6	3562.9	3560.6	3560.6	3558.3	3556.0	3558.3	3556.0	3551.4	3553.7
5°	3569.9	3574.5	3574.5	3569.9	3572.2	3569.9	3565.3	3567.6	3562.9	3556.0	3556.0
7.5°	3583.7	3586.0	3586.0	3581.4	3583.7	3579.1	3574.5	3572.2	3567.6	3558.3	3551.4
10°	3604.4	3606.7	3604.4	3599.8	3599.8	3592.9	3581.4	3576.8	3567.6	3553.7	3546.8
12.5°	3627.5	3629.8	3627.5	3622.9	3620.6	3609.0	3599.8	3592.9	3586.0	3574.5	3562.9
15°	3659.7	3664.4	3659.7	3650.5	3643.6	3634.4	3629.8	3632.1	3634.4	3625.2	3613.6
17.5°	3719.7	3722.0	3715.1	3694.3	3685.1	3675.9	3675.9	3680.5	3687.4	3682.8	3671.3
20°	3830.3	3823.4	3807.2	3781.9	3770.4	3754.2	3751.9	3754.2	3754.2	3751.9	3742.7
22.5°	3968.6	3964.0	3943.2	3910.9	3894.8	3885.6	3871.8	3860.2	3857.9	3851.0	3841.8
25°	4134.5	4132.2	4106.8	4079.2	4067.7	4056.1	4044.6	4028.5	4014.7	3998.5	3989.3
27.5°	4346.5	4337.3	4300.4	4286.6	4270.5	4263.6	4247.4	4229.0	4217.5	4196.7	4185.2
30°	4579.3	4579.3	4549.3	4544.7	4544.7	4528.6	4510.1	4477.9	4457.1	4436.4	4429.5
32.5°	4812.1	4814.4	4784.4	4793.6	4800.5	4812.1	4816.7	4805.1	4791.3	4789.0	4775.2
35°	5148.5	5139.3	5109.4	5116.3	5114.0	5111.7	5111.7	5137.0	5141.6	5146.2	5118.6
37.5°	5565.7	5565.7	5535.7	5535.7	5521.9	5508.1	5489.6	5505.7	5531.1	5538.0	5519.6
40°	6042.7	6058.9	6022.0	6019.7	6024.3	5980.5	5959.8	5985.1	6001.2	6028.9	6008.2
42.5°	6605.1	6593.5	6556.7	6552.0	6526.7	6512.9	6494.4	6515.2	6540.5	6559.0	6565.9
45°	7144.3	7135.1	7093.6	7093.6	7068.3	7056.8	7066.0	7100.5	7112.1	7137.4	7162.8
47.5°	7676.7	7665.2	7637.5	7649.0	7651.4	7672.1	7702.1	7734.3	7766.6	7801.2	7812.7
50°	8220.6	8222.9	8192.9	8220.6	8255.2	8312.8	8393.4	8446.4	8513.3	8557.1	8570.9
52.5°	8716.1	8725.3	8757.6	8822.1	8891.2	9004.2	9142.4	9271.5	9382.1	9455.9	9451.3
55°	9310.7	9324.5	9402.9	9513.5	9626.4	9797.0	10002.1	10230.2	10414.6	10520.6	10453.8
57.5°	10071.2	10101.2	10188.7	10338.5	10506.8	10728.0	11009.2	11352.6	11638.3	11781.2	11672.9
60°	11115.2	11133.6	11239.6	11405.6	11608.4	11882.6	12258.3	12719.2	13122.5	13311.5	13187.1
62.5°	12491.1	12525.6	12610.9	12779.1	12986.6	13297.7	13756.3	14332.5	14834.9	15097.6	14816.4
65°	14134.3	14244.9	14316.3	14486.9	14680.5	15010.0	15489.4	16107.0	16646.3	16819.1	16494.2
67.5°	15761.3	15858.1	15982.6	16178.5	16374.4	16745.4	17190.2	17789.4	18381.7	18538.4	18033.7
70°	16473.5	16528.8	16722.3	16989.7	17365.3	17803.2	18317.1	18990.1	19723.0	19852.0	19211.3
72.5°	15046.9	15102.2	15318.8	15772.8	16427.4	17123.4	18019.9	19008.5	19976.5	20121.7	19239.0
75°	11380.2	11290.4	11610.7	12212.2	13094.9	14065.1	15318.8	16736.2	18135.1	18317.1	17263.9
77.5°	5881.4	5869.9	6111.9	6858.6	7911.8	9015.7	10396.2	11997.9	13366.8	13919.9	13062.6
80°	1657.0	1675.5	1790.7	2161.7	2777.1	3574.5	4653.0	6153.3	7273.4	7844.9	7365.6
82.5°	649.9	700.6	744.4	813.5	894.2	1011.7	1350.5	2009.6	2696.4	3221.9	2638.8
85°	232.8	248.9	352.6	417.1	424.1	447.1	509.3	594.6	716.7	855.0	702.9
87.5°	87.6	96.8	112.9	186.7	184.4	168.2	205.1	214.3	161.3	147.5	182.1
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°	3558.3	3558.3	3558.3	3558.3	3558.3	3558.3	3558.3	3558.3
2.5°	3549.1	3551.4	3551.4	3553.7	3556.0	3556.0	3560.6	3560.6
5°	3551.4	3551.4	3546.8	3549.1	3546.8	3546.8	3549.1	3549.1
7.5°	3546.8	3544.5	3539.9	3537.6	3533.0	3533.0	3533.0	3533.0
10°	3539.9	3537.6	3533.0	3530.7	3528.4	3528.4	3528.4	3528.4
12.5°	3558.3	3551.4	3546.8	3544.5	3544.5	3544.5	3544.5	3544.5
15°	3606.7	3590.6	3579.1	3579.1	3581.4	3586.0	3586.0	3590.6
17.5°	3666.7	3648.2	3636.7	3627.5	3632.1	3639.0	3643.6	3648.2
20°	3738.1	3728.9	3712.7	3703.5	3703.5	3712.7	3717.4	3719.7
22.5°	3837.2	3830.3	3823.4	3811.8	3811.8	3816.5	3825.7	3825.7
25°	3984.7	3980.1	3975.5	3966.3	3964.0	3964.0	3968.6	3973.2
27.5°	4169.1	4171.4	4166.8	4164.5	4157.5	4155.2	4162.2	4159.8
30°	4415.7	4427.2	4438.7	4429.5	4418.0	4411.0	4404.1	4394.9
32.5°	4749.8	4736.0	4726.8	4710.7	4689.9	4671.5	4657.6	4641.5
35°	5065.6	5042.5	5033.3	5047.1	5044.8	5033.3	5017.2	5003.3
37.5°	5452.7	5448.1	5452.7	5478.1	5473.5	5485.0	5452.7	5450.4
40°	5941.3	5945.9	5978.2	6008.2	6024.3	6040.4	6022.0	6003.5
42.5°	6508.3	6506.0	6517.5	6559.0	6586.6	6605.1	6565.9	6561.3
45°	7107.5	7091.3	7100.5	7135.1	7162.8	7183.5	7139.7	7139.7
47.5°	7766.6	7738.9	7709.0	7748.1	7764.3	7778.1	7743.5	7732.0
50°	8501.8	8444.1	8379.6	8395.7	8395.7	8391.1	8347.3	8345.0
52.5°	9345.2	9239.2	9121.7	9077.9	9052.6	9024.9	8948.9	8912.0
55°	10315.5	10156.5	9972.1	9859.2	9799.3	9723.2	9596.5	9561.9
57.5°	11449.4	11200.5	10882.4	10744.2	10610.5	10486.0	10345.5	10306.3
60°	12793.0	12426.5	12004.8	11749.0	11603.8	11483.9	11338.7	11331.8
62.5°	14291.0	13712.5	13235.5	13005.0	12899.0	12793.0	12654.7	12673.1
65°	15814.3	15210.5	14763.4	14576.7	14477.6	14390.1	14251.8	14272.5
67.5°	17316.9	16761.5	16270.6	16079.4	15968.7	15858.1	15733.7	15754.4
70°	18395.5	17706.4	17153.3	16729.3	16464.2	16164.6	15971.0	15922.6
72.5°	18086.7	17024.3	16146.2	15305.0	14811.8	14410.8	14138.9	14021.3
75°	15653.0	14201.1	13071.8	12039.4	11458.6	10986.1	10642.8	10428.4
77.5°	11624.5	9992.8	8658.5	7469.3	6529.0	5897.5	5452.7	5164.7
80°	6363.1	4839.7	3537.6	2486.7	1827.6	1518.7	1341.3	1256.0
82.5°	1982.0	1279.1	942.6	813.5	755.9	723.7	670.6	585.4
85°	631.5	553.1	513.9	490.9	467.8	407.9	281.2	255.8
87.5°	244.3	251.2	248.9	235.1	239.7	172.8	138.3	122.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)