

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: P190806

Luminaire Tested: **GLEON-AF-08-LED-E1-5MQ-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41418.3 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

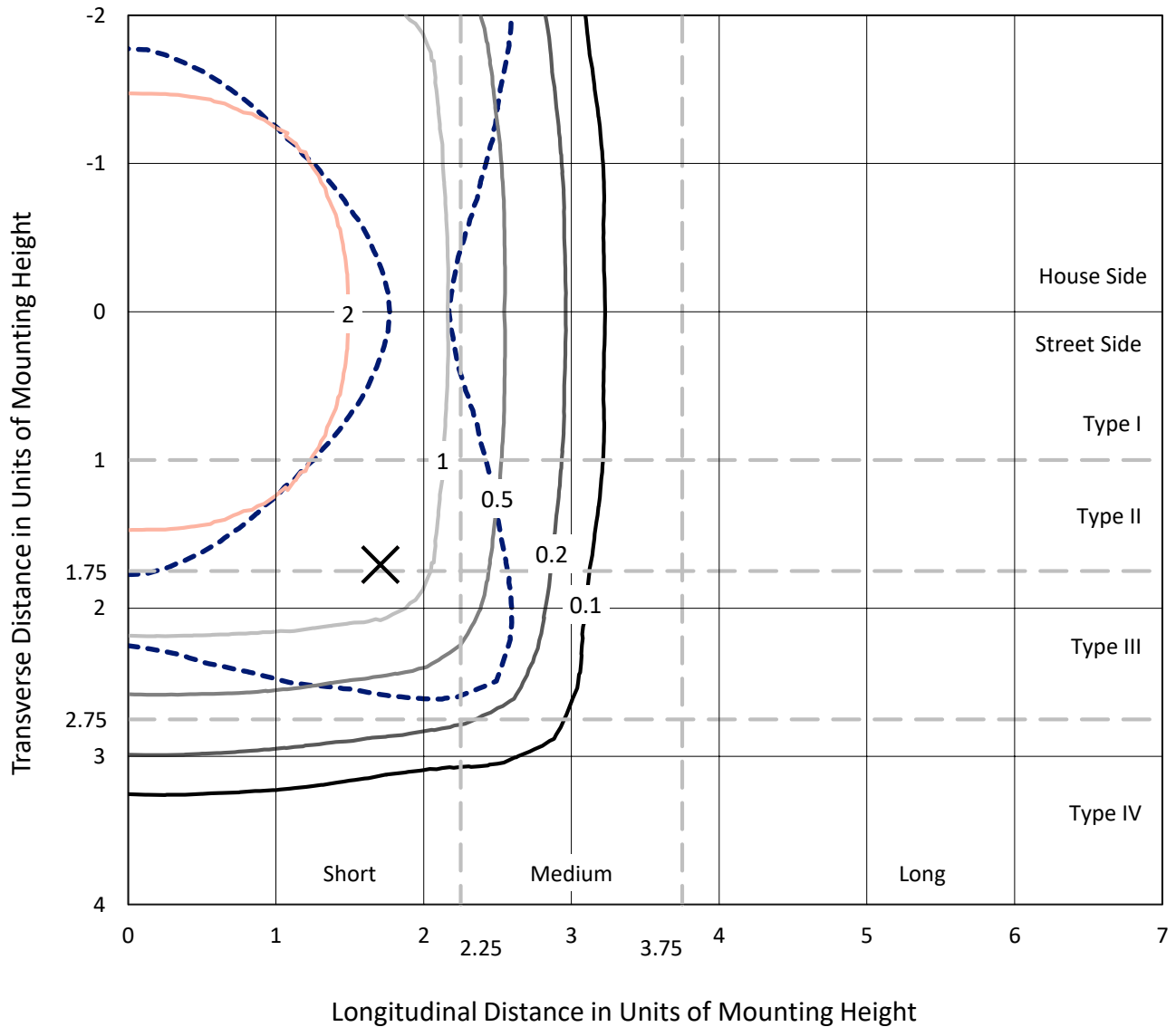
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P190806
 CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-800

Iso-Footcandle Lines of Horizontal Illumination

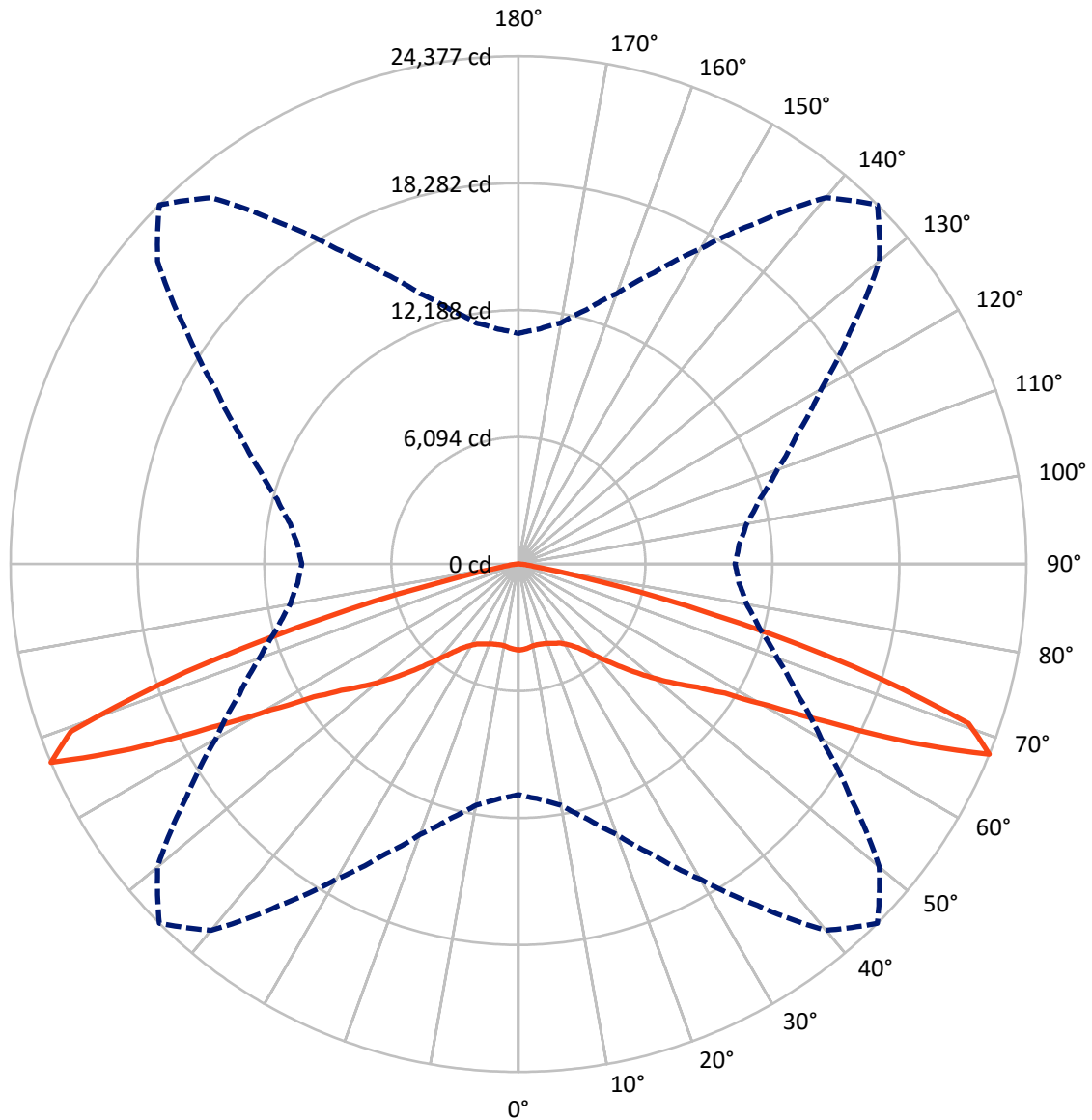
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P190806
CATALOG NUMBER: GLEON-AF-08-LED-E1-5MQ-800

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20709.1	0.0	20709.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20709.1	0.0	20709.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	41418.3	0.0	41418.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.3	0.9
10°-20°	1121.0	2.7
20°-30°	1905.7	4.6
30°-40°	3115.2	7.5
40°-50°	5561.3	13.4
50°-60°	9376.4	22.6
60°-70°	14550.8	35.1
70°-80°	5112.5	12.3
80°-90°	288.9	0.7
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°	41418.3	100.0
0°-180°	41418.3	100.0



REPORT NUMBER: P190806

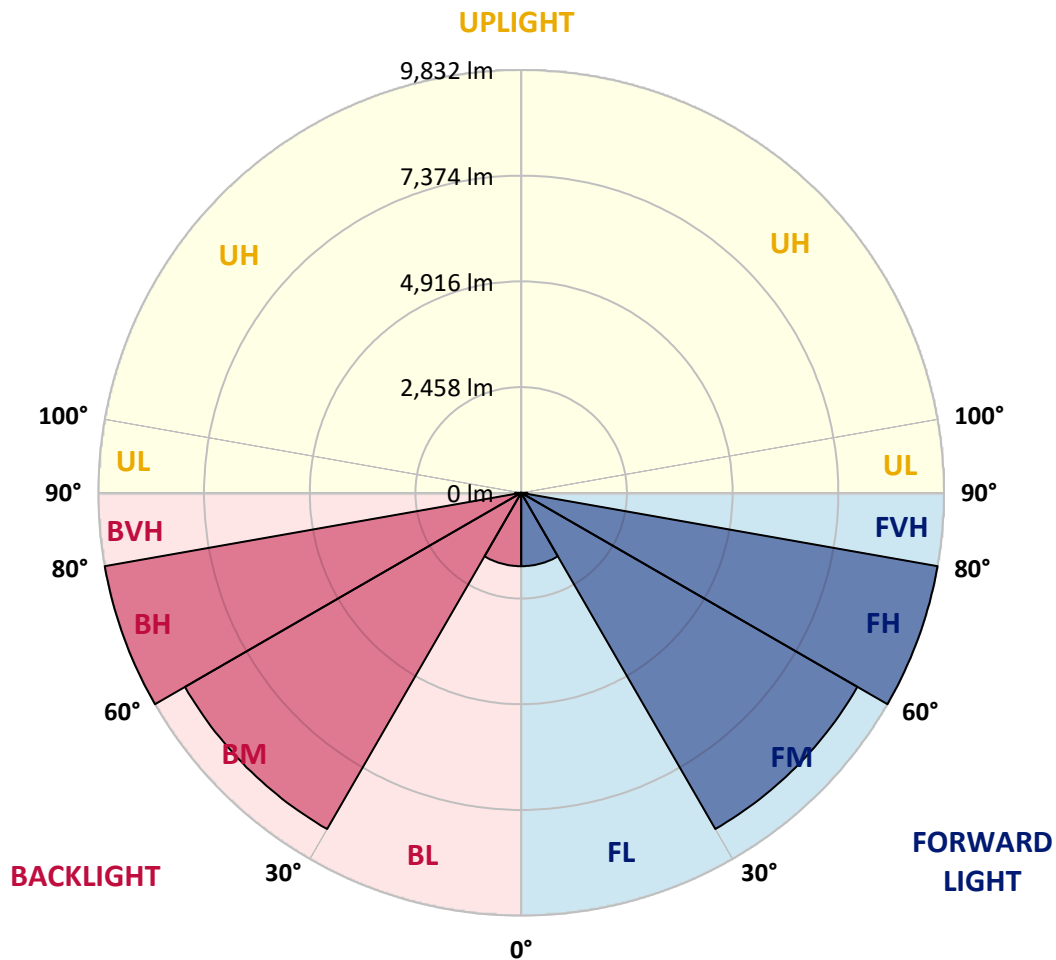
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1706.5	4.1			
FM	(30°-60°)	9026.5	21.8			
FH	(60°-80°)	9831.7	23.7			G4/12000
FVH	(80°-90°)	144.5	0.3			G2/225
BL	(0°-30°)	1706.5	4.1	B3/2500		
BM	(30°-60°)	9026.5	21.8	B5		
BH	(60°-80°)	9831.7	23.7	B5		G4/12000
BVH	(80°-90°)	144.5	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4127.5	4127.5	4127.5	4127.5	4127.5	4127.5	4127.5	4127.5	4127.5	4127.5	4127.5
2.5°	4112.3	4116.0	4116.0	4116.0	4114.2	4114.2	4110.3	4114.2	4112.3	4106.5	4108.5
5°	4078.0	4081.8	4081.8	4079.9	4085.6	4083.7	4078.0	4081.8	4079.9	4076.0	4078.0
7.5°	4028.5	4034.2	4034.2	4032.3	4038.0	4036.1	4032.3	4034.2	4034.2	4028.5	4028.5
10°	3973.2	3977.0	3977.0	3975.1	3984.7	3984.7	3982.8	3988.5	3990.3	3984.7	3980.8
12.5°	3921.8	3927.5	3927.5	3935.1	3944.7	3948.5	3958.0	3965.6	3973.2	3971.3	3963.7
15°	3891.3	3895.1	3902.8	3912.3	3927.5	3940.8	3956.1	3973.2	3988.5	3992.3	3980.8
17.5°	3872.3	3878.0	3889.5	3902.8	3923.7	3946.5	3969.5	3992.3	4013.2	4020.8	4007.5
20°	3866.5	3870.3	3881.8	3904.6	3933.2	3967.5	3999.8	4026.5	4055.1	4064.7	4055.1
22.5°	3878.0	3885.6	3899.0	3925.6	3963.7	4007.5	4045.6	4081.8	4118.0	4135.1	4121.8
25°	3929.5	3937.0	3954.2	3988.5	4030.3	4076.0	4119.9	4161.8	4194.2	4211.3	4201.8
27.5°	4024.7	4034.2	4055.1	4089.5	4135.1	4184.7	4232.3	4266.5	4293.2	4299.0	4287.5
30°	4167.5	4188.5	4213.2	4251.3	4304.7	4346.5	4394.2	4424.7	4457.0	4457.0	4447.5
32.5°	4390.4	4411.3	4438.0	4474.2	4516.0	4561.7	4603.7	4630.4	4664.7	4666.5	4643.7
35°	4723.7	4733.2	4756.1	4778.9	4817.0	4857.0	4893.2	4910.4	4938.9	4940.9	4919.9
37.5°	5163.7	5165.6	5180.8	5188.4	5222.7	5266.6	5300.8	5312.2	5338.9	5335.1	5314.1
40°	5676.0	5685.6	5691.3	5702.7	5738.9	5780.8	5817.0	5822.7	5851.3	5845.6	5818.9
42.5°	6268.4	6272.2	6304.5	6321.7	6356.0	6377.0	6422.7	6428.4	6462.7	6447.5	6417.0
45°	6933.2	6967.4	6997.9	7032.2	7068.4	7093.1	7129.4	7121.7	7144.6	7121.7	7104.6
47.5°	7632.1	7656.9	7725.5	7778.8	7837.8	7858.8	7910.3	7887.4	7910.3	7877.8	7872.1
50°	8401.7	8445.5	8504.5	8565.5	8628.3	8662.7	8729.2	8700.7	8731.2	8700.7	8683.5
52.5°	9159.7	9171.2	9300.7	9390.2	9477.8	9517.8	9557.8	9544.5	9546.4	9544.5	9527.4
55°	9879.8	9906.4	10035.9	10157.8	10310.2	10422.5	10491.2	10483.5	10466.4	10449.2	10420.7
57.5°	10691.2	10717.8	10866.4	11016.9	11190.2	11350.2	11489.2	11632.1	11687.3	11702.6	11639.6
60°	11788.3	11786.3	11984.4	12167.3	12414.9	12653.0	12957.7	13268.2	13624.4	13790.1	13571.1
62.5°	12904.4	12950.1	13235.9	13559.6	14070.1	14567.2	15129.1	15681.4	16245.3	16704.3	16216.7
65°	12771.0	12946.3	13371.1	14104.3	15047.2	16167.1	17378.6	18660.5	19818.4	20614.7	19721.4
67.5°	11068.2	11317.8	11750.1	12641.5	13820.6	15435.7	17470.0	20005.1	22951.7	24376.5	22610.8
70°	8022.6	8304.5	8757.9	9628.3	10795.9	12331.1	14540.5	17584.3	21485.1	22921.3	20976.5
72.5°	3992.3	4144.7	4424.7	4978.9	5862.7	7108.4	9112.1	12037.8	15489.1	16807.2	15030.0
75°	1356.1	1426.6	1474.3	1655.2	1935.2	2424.7	3420.8	5262.7	8028.3	9624.5	7914.1
77.5°	782.9	784.7	817.1	849.5	897.1	950.4	1083.8	1422.8	2460.9	3495.1	2546.6
80°	506.7	504.7	531.4	556.2	588.6	615.2	622.9	659.0	760.0	900.9	805.7
82.5°	262.9	295.2	354.2	386.7	447.6	459.0	443.8	430.5	455.2	472.4	483.8
85°	144.7	125.7	188.5	243.8	270.5	274.3	274.3	259.0	268.5	262.9	285.7
87.5°	66.7	61.0	74.3	120.0	127.7	108.5	114.3	101.0	72.4	70.5	80.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P190806

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4127.5	4127.5	4127.5	4127.5	4127.5	4127.5	4127.5	4127.5
2.5°	4108.5	4110.3	4110.3	4116.0	4118.0	4121.8	4125.6	4127.5
5°	4076.0	4081.8	4078.0	4083.7	4083.7	4087.5	4087.5	4089.5
7.5°	4028.5	4034.2	4034.2	4034.2	4032.3	4038.0	4038.0	4038.0
10°	3979.0	3982.8	3980.8	3977.0	3973.2	3979.0	3977.0	3975.1
12.5°	3963.7	3954.2	3946.5	3942.8	3935.1	3937.0	3931.3	3931.3
15°	3973.2	3956.1	3942.8	3937.0	3929.5	3925.6	3921.8	3923.7
17.5°	3998.0	3977.0	3959.8	3950.3	3940.8	3935.1	3927.5	3929.5
20°	4041.8	4017.0	3992.3	3973.2	3956.1	3946.5	3940.8	3939.0
22.5°	4106.5	4070.3	4034.2	4005.6	3982.8	3969.5	3963.7	3959.8
25°	4180.8	4140.8	4099.0	4066.5	4043.7	4026.5	4015.1	4015.1
27.5°	4274.2	4241.8	4203.7	4165.6	4144.7	4127.5	4119.9	4116.0
30°	4430.4	4399.9	4369.4	4333.2	4306.5	4289.4	4276.0	4264.7
32.5°	4630.4	4605.6	4580.8	4554.2	4529.4	4506.5	4485.6	4476.0
35°	4912.2	4893.2	4876.1	4845.6	4836.1	4822.7	4811.2	4801.7
37.5°	5300.8	5293.2	5293.2	5260.8	5253.2	5247.4	5236.1	5237.9
40°	5811.3	5818.9	5809.3	5798.0	5792.3	5777.0	5777.0	5790.3
42.5°	6415.0	6420.8	6441.7	6422.7	6443.7	6424.5	6413.2	6422.7
45°	7116.0	7136.9	7178.9	7159.8	7173.1	7140.7	7100.7	7102.7
47.5°	7902.6	7921.7	7938.8	7925.5	7927.4	7874.1	7820.8	7807.4
50°	8719.7	8727.4	8736.9	8717.9	8721.7	8662.7	8601.7	8603.5
52.5°	9527.4	9563.6	9601.6	9550.2	9538.8	9472.1	9386.4	9352.1
55°	10451.2	10502.5	10458.8	10369.2	10279.7	10190.2	10077.8	10058.8
57.5°	11590.1	11502.6	11365.4	11195.9	11072.1	10946.4	10832.1	10784.5
60°	13174.9	12845.4	12597.7	12346.3	12188.3	12034.0	11883.5	11860.6
62.5°	15414.8	14845.3	14352.0	13832.0	13407.2	13075.9	12811.0	12736.8
65°	18222.3	16875.7	15708.1	14618.7	13672.0	12957.7	12508.2	12310.1
67.5°	19429.9	16771.0	14769.2	13222.5	11984.4	11119.7	10634.0	10392.1
70°	17073.8	13908.1	11731.1	10182.6	9055.0	8133.1	7693.1	7434.1
72.5°	11746.3	8847.4	6996.0	5710.3	4809.4	4038.0	3733.3	3710.3
75°	5274.1	3493.3	2407.5	1855.2	1561.8	1358.1	1295.2	1247.6
77.5°	1476.1	1091.4	973.3	910.4	849.5	779.0	752.4	758.1
80°	718.1	678.1	651.4	611.4	556.2	497.2	470.5	481.9
82.5°	476.2	470.5	487.6	459.0	379.0	321.9	270.5	247.7
85°	289.5	293.3	299.0	301.0	255.2	179.0	121.9	137.2
87.5°	114.3	131.4	142.8	148.5	139.0	85.7	68.5	70.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)