

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: P191598

Luminaire Tested: **GLEON-AF-10-LED-E1-5MQ-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191598  
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-10-LED-E1-5MQ-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40779 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 323  
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

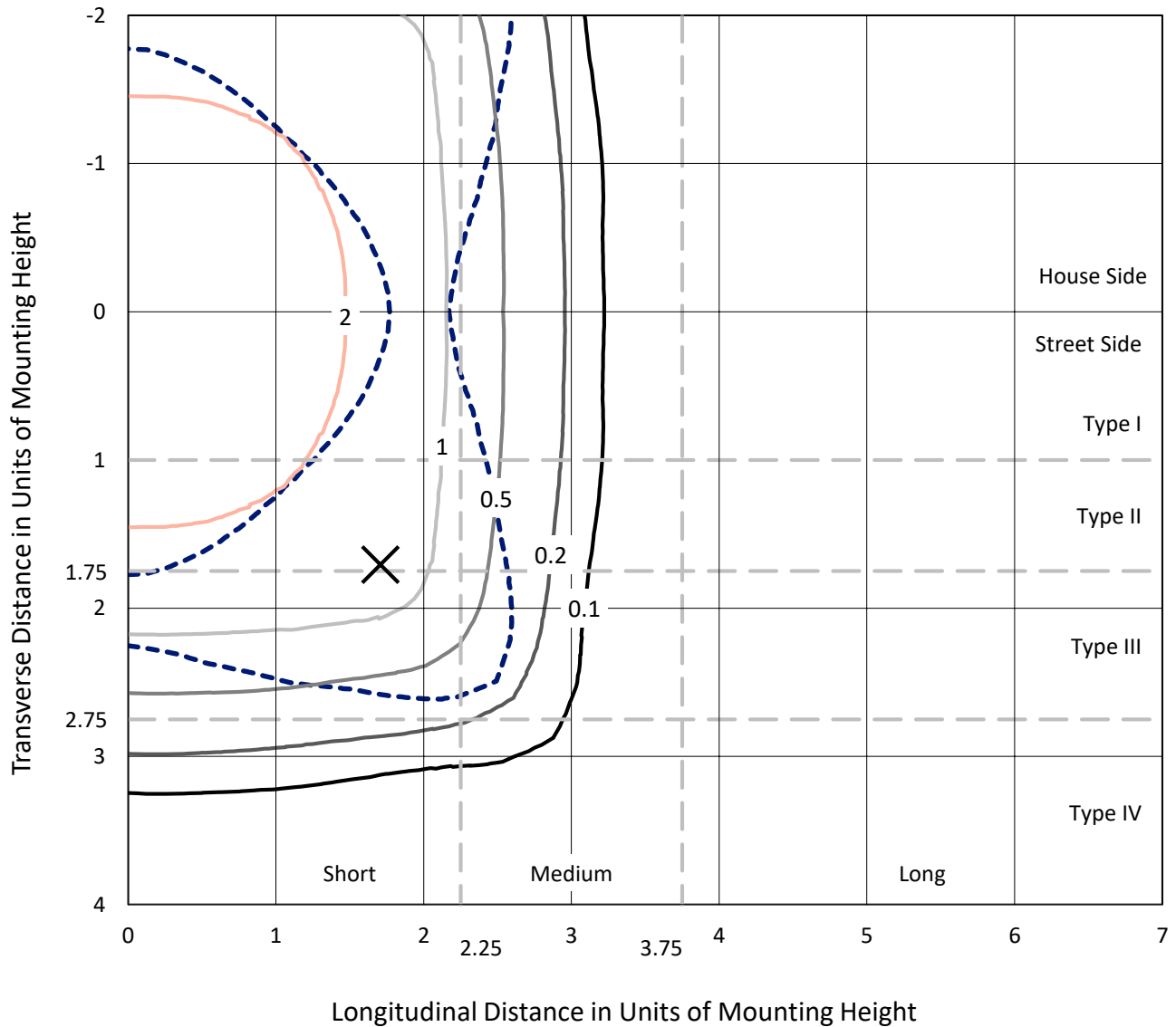


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### Iso-Footcandle Lines of Horizontal Illumination

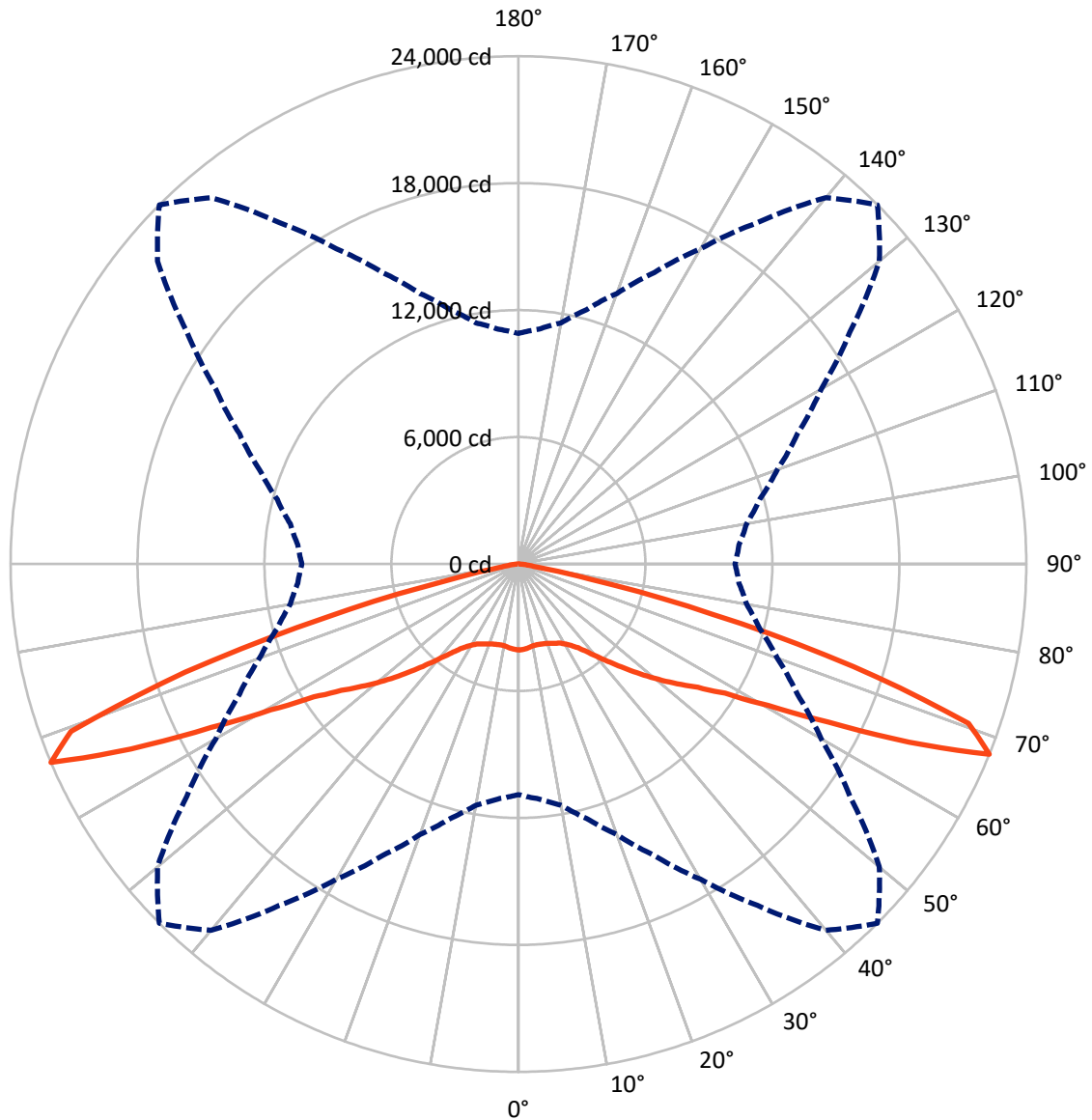
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - Full Cutoff

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### 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
<b>House Side</b>	Lumens	20389.5	0.0	20389.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20389.5	0.0	20389.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40779.0	0.0	40779.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.4	0.9
10°-20°	1103.7	2.7
20°-30°	1876.3	4.6
30°-40°	3067.1	7.5
40°-50°	5475.4	13.4
50°-60°	9231.7	22.6
60°-70°	14326.3	35.1
70°-80°	5033.6	12.3
80°-90°	284.5	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°	40779.0	100.0
0°-180°	40779.0	100.0



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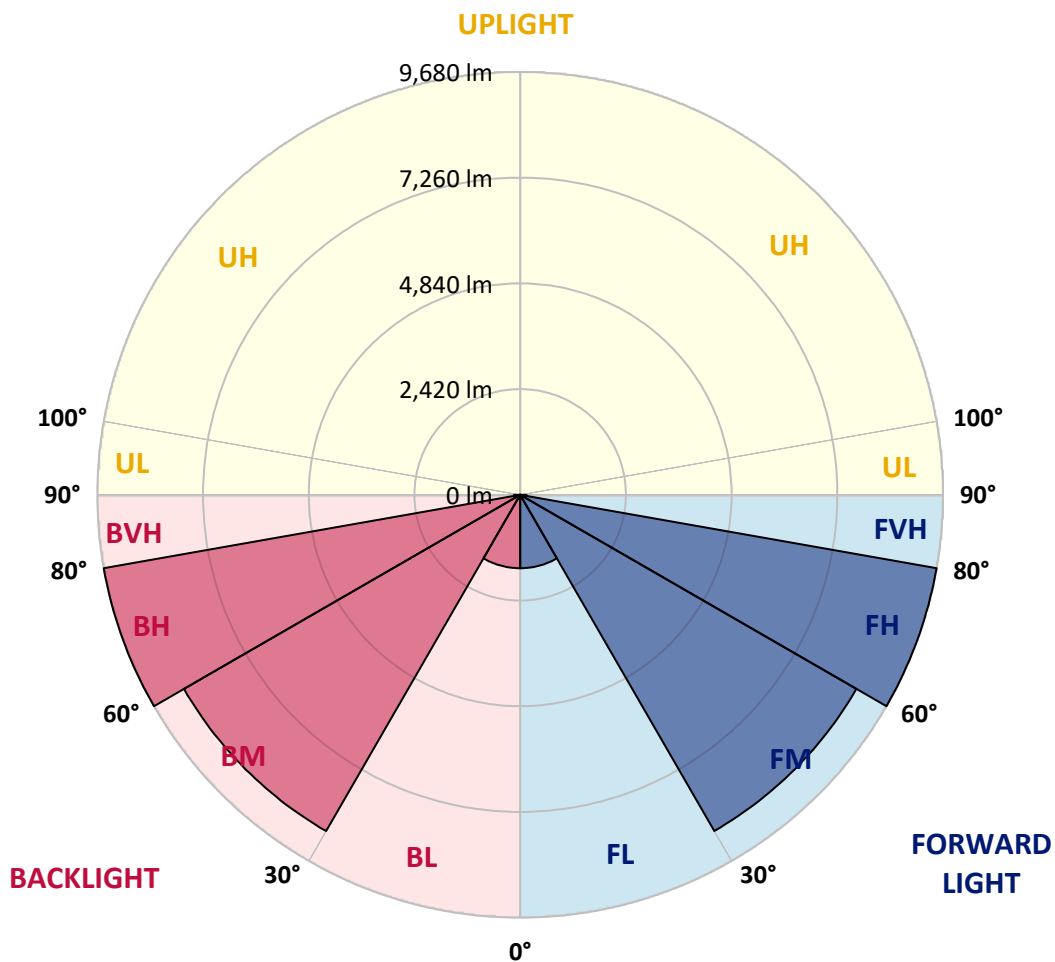
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1680.2	4.1			
FM	(30°-60°)	8887.2	21.8			
FH	(60°-80°)	9679.9	23.7			G4/12000
FVH	(80°-90°)	142.2	0.3			G2/225
BL	(0°-30°)	1680.2	4.1	B3/2500		
BM	(30°-60°)	8887.2	21.8	B5		
BH	(60°-80°)	9679.9	23.7	B5		G4/12000
BVH	(80°-90°)	142.2	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°	4063.8	4063.8	4063.8	4063.8	4063.8	4063.8	4063.8	4063.8	4063.8	4063.8	4063.8
2.5°	4048.8	4052.5	4052.5	4052.5	4050.7	4050.7	4046.9	4050.7	4048.8	4043.2	4045.0
5°	4015.0	4018.8	4018.8	4016.9	4022.5	4020.7	4015.0	4018.8	4016.9	4013.2	4015.0
7.5°	3966.3	3971.9	3971.9	3970.0	3975.7	3973.8	3970.0	3971.9	3971.9	3966.3	3966.3
10°	3911.9	3915.6	3915.6	3913.8	3923.2	3923.2	3921.3	3926.9	3928.8	3923.2	3919.4
12.5°	3861.3	3866.9	3866.9	3874.4	3883.8	3887.5	3896.9	3904.4	3911.9	3910.0	3902.5
15°	3831.3	3835.0	3842.5	3851.9	3866.9	3880.0	3895.0	3911.9	3926.9	3930.7	3919.4
17.5°	3812.5	3818.1	3829.4	3842.5	3863.1	3885.6	3908.1	3930.7	3951.3	3958.8	3945.7
20°	3806.9	3810.6	3821.9	3844.4	3872.5	3906.3	3938.2	3964.4	3992.5	4001.9	3992.5
22.5°	3818.1	3825.6	3838.8	3865.0	3902.5	3945.7	3983.2	4018.8	4054.4	4071.3	4058.2
25°	3868.8	3876.3	3893.1	3926.9	3968.2	4013.2	4056.3	4097.6	4129.4	4146.3	4136.9
27.5°	3962.5	3971.9	3992.5	4026.3	4071.3	4120.1	4166.9	4200.7	4227.0	4232.6	4221.3
30°	4103.2	4123.8	4148.2	4185.7	4238.2	4279.5	4326.3	4356.3	4388.2	4388.2	4378.9
32.5°	4322.6	4343.2	4369.5	4405.1	4446.4	4491.4	4532.6	4558.9	4592.6	4594.5	4572.0
35°	4650.8	4660.1	4682.7	4705.2	4742.7	4782.0	4817.7	4834.6	4862.7	4864.6	4843.9
37.5°	5084.0	5085.8	5100.8	5108.3	5142.1	5185.2	5219.0	5230.2	5256.5	5252.7	5232.1
40°	5588.4	5597.8	5603.4	5614.7	5650.3	5691.6	5727.2	5732.8	5761.0	5755.3	5729.1
42.5°	6171.6	6175.4	6207.3	6224.2	6257.9	6278.5	6323.5	6329.2	6362.9	6347.9	6317.9
45°	6826.1	6859.9	6889.9	6923.6	6959.3	6983.7	7019.3	7011.8	7034.3	7011.8	6994.9
47.5°	7514.4	7538.8	7606.3	7658.8	7716.9	7737.5	7788.2	7765.7	7788.2	7756.3	7750.7
50°	8272.0	8315.1	8373.3	8433.3	8495.2	8528.9	8594.6	8566.4	8596.4	8566.4	8549.5
52.5°	9018.4	9029.6	9157.1	9245.3	9331.5	9370.9	9410.3	9397.2	9399.1	9397.2	9380.3
55°	9727.2	9753.5	9881.0	10001.0	10151.1	10261.7	10329.2	10321.7	10304.8	10288.0	10259.8
57.5°	10526.1	10552.4	10698.7	10846.8	11017.5	11175.0	11311.9	11452.5	11506.9	11521.9	11460.0
60°	11606.3	11604.4	11799.5	11979.5	12223.3	12457.7	12757.7	13063.4	13414.1	13577.3	13361.6
62.5°	12705.2	12750.2	13031.5	13350.3	13852.9	14342.4	14895.6	15439.4	15994.5	16446.5	15966.4
65°	12574.0	12746.5	13164.7	13886.7	14815.0	15917.6	17110.3	18372.4	19512.6	20296.5	19417.0
67.5°	10897.4	11143.1	11568.8	12446.4	13607.3	15197.5	17200.4	19696.4	22597.5	24000.2	22261.8
70°	7898.8	8176.4	8622.7	9479.7	10629.3	12140.8	14316.1	17312.9	21153.5	22567.5	20652.8
72.5°	3930.7	4080.7	4356.3	4902.1	5772.2	6998.7	8971.5	11852.0	15250.0	16547.7	14798.1
75°	1335.2	1404.6	1451.5	1629.6	1905.3	2387.3	3368.1	5181.5	7904.4	9475.9	7791.9
77.5°	770.8	772.6	804.5	836.4	883.3	935.8	1067.1	1400.9	2422.9	3441.2	2507.3
80°	498.8	497.0	523.2	547.6	579.5	605.7	613.2	648.9	748.2	887.0	793.3
82.5°	258.8	290.7	348.8	380.7	440.7	451.9	436.9	423.8	448.2	465.1	476.3
85°	142.5	123.8	185.7	240.0	266.3	270.0	270.0	255.0	264.4	258.8	281.3
87.5°	65.6	60.0	73.1	118.1	125.6	106.9	112.5	99.4	71.3	69.4	78.8
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4063.8	4063.8	4063.8	4063.8	4063.8	4063.8	4063.8	4063.8
2.5°	4045.0	4046.9	4046.9	4052.5	4054.4	4058.2	4061.9	4063.8
5°	4013.2	4018.8	4015.0	4020.7	4020.7	4024.4	4024.4	4026.3
7.5°	3966.3	3971.9	3971.9	3971.9	3970.0	3975.7	3975.7	3975.7
10°	3917.5	3921.3	3919.4	3915.6	3911.9	3917.5	3915.6	3913.8
12.5°	3902.5	3893.1	3885.6	3881.9	3874.4	3876.3	3870.6	3870.6
15°	3911.9	3895.0	3881.9	3876.3	3868.8	3865.0	3861.3	3863.1
17.5°	3936.3	3915.6	3898.8	3889.4	3880.0	3874.4	3866.9	3868.8
20°	3979.4	3955.0	3930.7	3911.9	3895.0	3885.6	3880.0	3878.1
22.5°	4043.2	4007.5	3971.9	3943.8	3921.3	3908.1	3902.5	3898.8
25°	4116.3	4076.9	4035.7	4003.8	3981.3	3964.4	3953.2	3953.2
27.5°	4208.2	4176.3	4138.8	4101.3	4080.7	4063.8	4056.3	4052.5
30°	4362.0	4332.0	4302.0	4266.3	4240.1	4223.2	4210.1	4198.8
32.5°	4558.9	4534.5	4510.1	4483.9	4459.5	4437.0	4416.4	4407.0
35°	4836.4	4817.7	4800.8	4770.8	4761.4	4748.3	4737.0	4727.7
37.5°	5219.0	5211.5	5211.5	5179.6	5172.1	5166.5	5155.2	5157.1
40°	5721.6	5729.1	5719.7	5708.4	5702.8	5687.8	5687.8	5700.9
42.5°	6316.0	6321.7	6342.3	6323.5	6344.2	6325.4	6314.2	6323.5
45°	7006.2	7026.8	7068.0	7049.3	7062.4	7030.5	6991.2	6993.0
47.5°	7780.7	7799.4	7816.3	7803.2	7805.0	7752.5	7700.0	7686.9
50°	8585.2	8592.7	8602.1	8583.3	8587.0	8528.9	8468.9	8470.8
52.5°	9380.3	9415.9	9453.4	9402.8	9391.6	9325.9	9241.5	9207.8
55°	10289.8	10340.5	10297.3	10209.2	10121.1	10032.9	9922.3	9903.5
57.5°	11411.3	11325.0	11190.0	11023.1	10901.2	10777.4	10664.9	10618.0
60°	12971.5	12647.1	12403.3	12155.8	12000.1	11848.2	11700.1	11677.6
62.5°	15176.9	14616.2	14130.5	13618.5	13200.3	12874.0	12613.3	12540.2
65°	17941.1	16615.3	15465.7	14393.0	13461.0	12757.7	12315.2	12120.1
67.5°	19130.0	16512.1	14541.2	13018.4	11799.5	10948.1	10469.9	10231.7
70°	16810.3	13693.5	11550.0	10025.4	8915.2	8007.6	7574.4	7319.3
72.5°	11565.0	8710.8	6888.0	5622.2	4735.2	3975.7	3675.6	3653.1
75°	5192.7	3439.3	2370.4	1826.6	1537.8	1337.1	1275.2	1228.3
77.5°	1453.4	1074.6	958.3	896.4	836.4	767.0	740.7	746.4
80°	707.0	667.6	641.4	602.0	547.6	489.5	463.2	474.5
82.5°	468.8	463.2	480.1	451.9	373.2	316.9	266.3	243.8
85°	285.0	288.8	294.4	296.3	251.3	176.3	120.0	135.0
87.5°	112.5	129.4	140.6	146.3	136.9	84.4	67.5	69.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)