

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: P191624

Luminaire Tested: **GLEON-AF-06-LED-E1-5MQ-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191624
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-06-LED-E1-5MQ-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41027 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 382
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

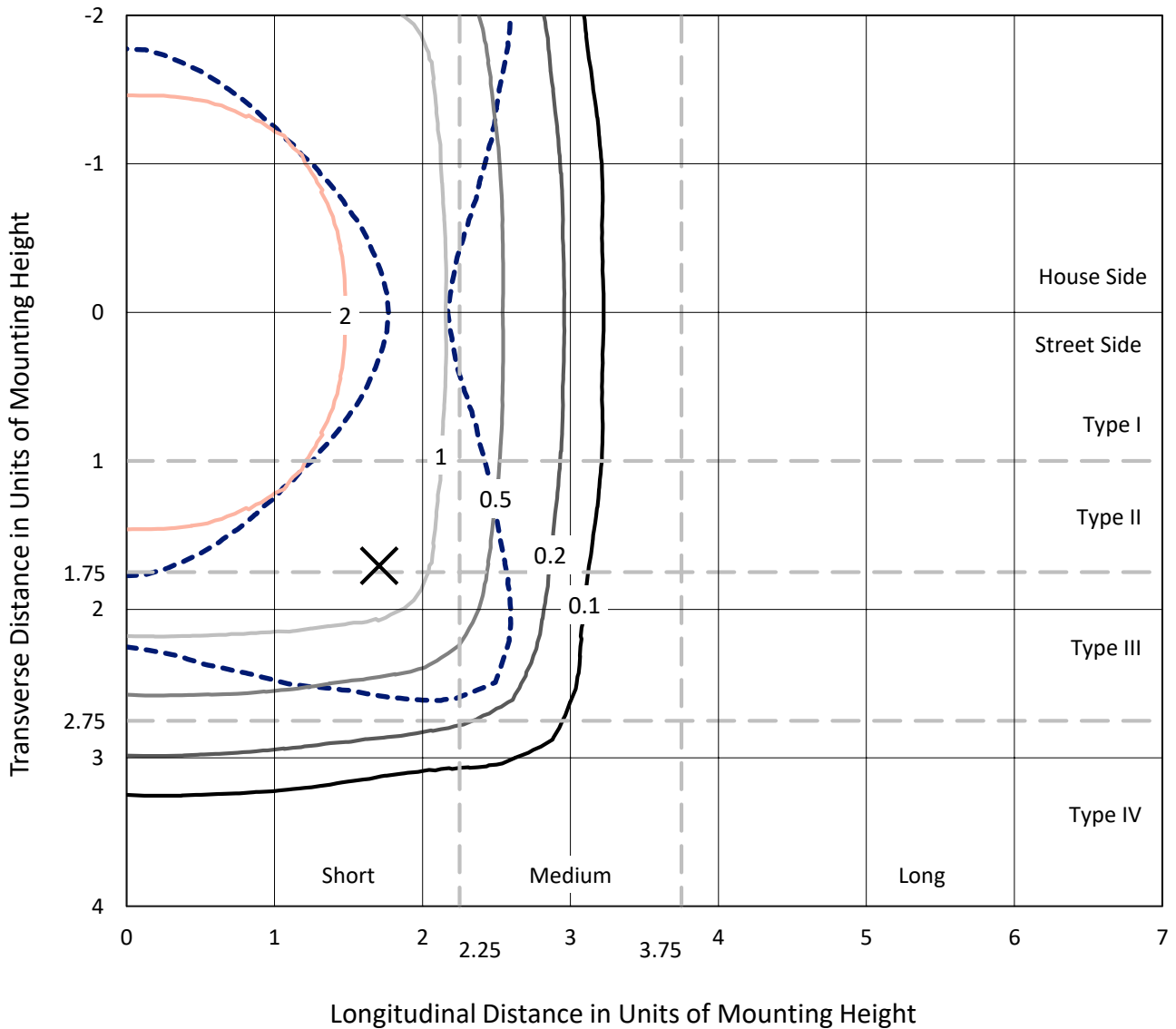


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

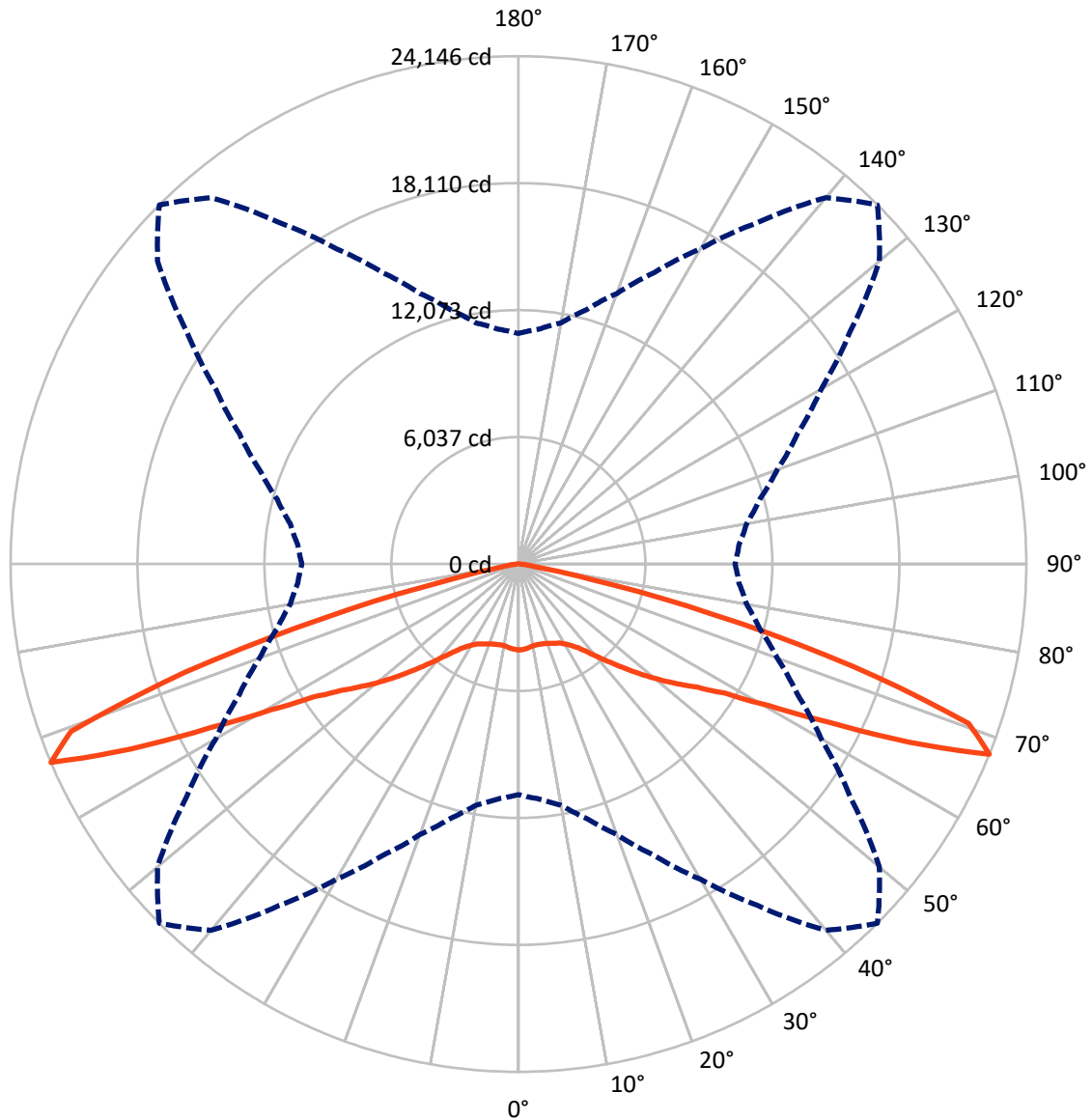


Based on 30 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Full Cutoff

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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
House Side	Lumens	20513.5	0.0	20513.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20513.5	0.0	20513.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	41027.0	0.0	41027.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.7	0.9
10°-20°	1110.4	2.7
20°-30°	1887.7	4.6
30°-40°	3085.8	7.5
40°-50°	5508.7	13.4
50°-60°	9287.9	22.6
60°-70°	14413.4	35.1
70°-80°	5064.2	12.3
80°-90°	286.2	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°	41027.0	100.0
0°-180°	41027.0	100.0



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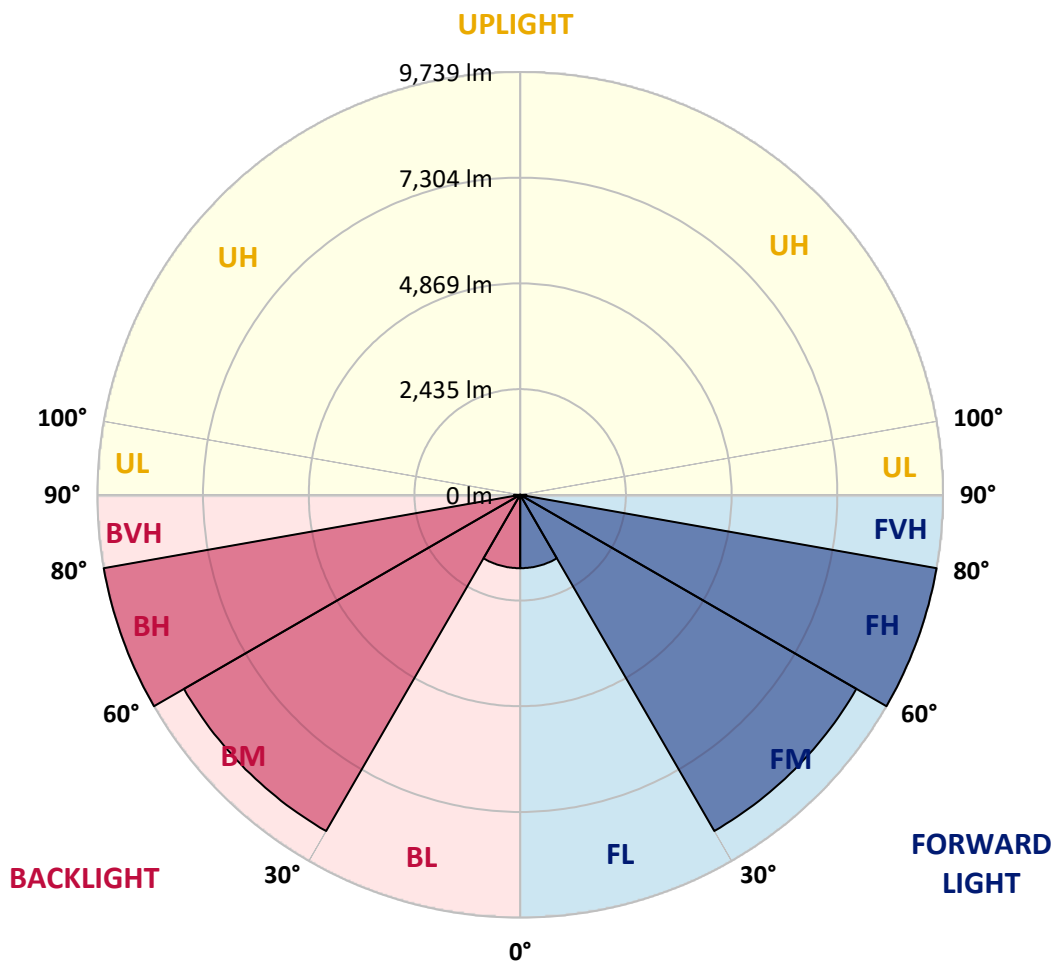
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1690.4	4.1			
FM	(30°-60°)	8941.2	21.8			
FH	(60°-80°)	9738.8	23.7			G4/12000
FVH	(80°-90°)	143.1	0.3			G2/225
BL	(0°-30°)	1690.4	4.1	B3/2500		
BM	(30°-60°)	8941.2	21.8	B5		
BH	(60°-80°)	9738.8	23.7	B5		G4/12000
BVH	(80°-90°)	143.1	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°	4088.5	4088.5	4088.5	4088.5	4088.5	4088.5	4088.5	4088.5	4088.5	4088.5	4088.5
2.5°	4073.4	4077.2	4077.2	4077.2	4075.3	4075.3	4071.5	4075.3	4073.4	4067.8	4069.6
5°	4039.5	4043.2	4043.2	4041.3	4047.0	4045.1	4039.5	4043.2	4041.3	4037.6	4039.5
7.5°	3990.4	3996.1	3996.1	3994.2	3999.8	3998.0	3994.2	3996.1	3996.1	3990.4	3990.4
10°	3935.7	3939.5	3939.5	3937.6	3947.0	3947.0	3945.1	3950.8	3952.7	3947.0	3943.2
12.5°	3884.7	3890.4	3890.4	3898.0	3907.4	3911.2	3920.6	3928.1	3935.7	3933.8	3926.3
15°	3854.6	3858.3	3865.9	3875.3	3890.4	3903.6	3918.7	3935.7	3950.8	3954.6	3943.2
17.5°	3835.7	3841.4	3852.7	3865.9	3886.6	3909.3	3931.9	3954.6	3975.3	3982.9	3969.7
20°	3830.0	3833.8	3845.1	3867.8	3896.1	3930.0	3962.1	3988.5	4016.8	4026.3	4016.8
22.5°	3841.4	3848.9	3862.1	3888.5	3926.3	3969.7	4007.4	4043.2	4079.1	4096.1	4082.9
25°	3892.3	3899.8	3916.8	3950.8	3992.3	4037.6	4081.0	4122.5	4154.5	4171.5	4162.1
27.5°	3986.6	3996.1	4016.8	4050.8	4096.1	4145.1	4192.3	4226.2	4252.7	4258.3	4247.0
30°	4128.1	4148.9	4173.4	4211.2	4264.0	4305.5	4352.7	4382.8	4414.9	4414.9	4405.5
32.5°	4348.9	4369.6	4396.0	4431.9	4473.4	4518.7	4560.2	4586.6	4620.6	4622.5	4599.8
35°	4679.1	4688.5	4711.1	4733.8	4771.5	4811.1	4847.0	4864.0	4892.3	4894.1	4873.4
37.5°	5114.9	5116.8	5131.9	5139.4	5173.4	5216.8	5250.7	5262.1	5288.5	5284.7	5263.9
40°	5622.4	5631.8	5637.5	5648.8	5684.7	5726.2	5762.0	5767.7	5796.0	5790.3	5763.9
42.5°	6209.2	6213.0	6245.0	6262.0	6296.0	6316.7	6362.0	6367.7	6401.6	6386.5	6356.3
45°	6867.6	6901.6	6931.8	6965.8	7001.6	7026.1	7062.0	7054.4	7077.1	7054.4	7037.5
47.5°	7560.1	7584.6	7652.5	7705.3	7763.8	7784.6	7835.5	7812.9	7835.5	7803.5	7797.8
50°	8322.3	8365.7	8424.2	8484.6	8546.8	8580.8	8646.8	8618.5	8648.7	8618.5	8601.5
52.5°	9073.2	9084.5	9212.8	9301.5	9388.3	9427.9	9467.5	9454.3	9456.2	9454.3	9437.4
55°	9786.4	9812.8	9941.1	10061.9	10212.8	10324.1	10392.0	10384.5	10367.5	10350.5	10322.2
57.5°	10590.1	10616.6	10763.7	10912.8	11084.5	11242.9	11380.7	11522.2	11576.9	11592.0	11529.7
60°	11676.9	11675.0	11871.2	12052.3	12297.6	12533.5	12835.3	13142.9	13495.7	13659.8	13442.9
62.5°	12782.5	12827.8	13110.8	13431.5	13937.2	14429.6	14986.2	15533.3	16091.8	16546.5	16063.5
65°	12650.4	12824.0	13244.7	13971.1	14905.1	16014.4	17214.4	18484.2	19631.3	20419.9	19535.1
67.5°	10963.7	11210.9	11639.2	12522.1	13690.0	15289.9	17305.0	19816.2	22734.9	24146.2	22397.2
70°	7946.8	8226.1	8675.1	9537.3	10693.9	12214.6	14403.2	17418.2	21282.2	22704.7	20778.4
72.5°	3954.6	4105.5	4382.8	4931.9	5807.3	7041.2	9026.0	11924.0	15342.8	16648.4	14888.1
75°	1343.3	1413.2	1460.3	1639.6	1916.9	2401.8	3388.5	5213.0	7952.5	9533.6	7839.3
77.5°	775.4	777.3	809.4	841.5	888.6	941.5	1073.5	1409.4	2437.6	3462.1	2522.5
80°	501.9	500.0	526.4	550.9	583.0	609.4	617.0	652.8	752.8	892.4	798.1
82.5°	260.4	292.4	350.9	383.0	443.4	454.7	439.6	426.4	450.9	467.9	479.2
85°	143.4	124.5	186.8	241.5	267.9	271.7	271.7	256.6	266.0	260.4	283.0
87.5°	66.0	60.4	73.6	118.9	126.4	107.5	113.2	100.0	71.7	69.8	79.2
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°	4088.5	4088.5	4088.5	4088.5	4088.5	4088.5	4088.5	4088.5
2.5°	4069.6	4071.5	4071.5	4077.2	4079.1	4082.9	4086.6	4088.5
5°	4037.6	4043.2	4039.5	4045.1	4045.1	4048.9	4048.9	4050.8
7.5°	3990.4	3996.1	3996.1	3996.1	3994.2	3999.8	3999.8	3999.8
10°	3941.3	3945.1	3943.2	3939.5	3935.7	3941.3	3939.5	3937.6
12.5°	3926.3	3916.8	3909.3	3905.5	3898.0	3899.8	3894.2	3894.2
15°	3935.7	3918.7	3905.5	3899.8	3892.3	3888.5	3884.7	3886.6
17.5°	3960.2	3939.5	3922.5	3913.0	3903.6	3898.0	3890.4	3892.3
20°	4003.6	3979.1	3954.6	3935.7	3918.7	3909.3	3903.6	3901.7
22.5°	4067.8	4031.9	3996.1	3967.8	3945.1	3931.9	3926.3	3922.5
25°	4141.3	4101.7	4060.2	4028.1	4005.5	3988.5	3977.2	3977.2
27.5°	4233.8	4201.7	4164.0	4126.2	4105.5	4088.5	4081.0	4077.2
30°	4388.5	4358.3	4328.1	4292.3	4265.9	4248.9	4235.7	4224.4
32.5°	4586.6	4562.1	4537.6	4511.1	4486.6	4464.0	4443.2	4433.8
35°	4865.8	4847.0	4830.0	4799.8	4790.4	4777.2	4765.8	4756.4
37.5°	5250.7	5243.2	5243.2	5211.1	5203.6	5197.9	5186.6	5188.5
40°	5756.4	5763.9	5754.5	5743.2	5737.5	5722.4	5722.4	5735.6
42.5°	6354.5	6360.1	6380.9	6362.0	6382.8	6363.9	6352.6	6362.0
45°	7048.8	7069.5	7111.0	7092.2	7105.4	7073.3	7033.7	7035.6
47.5°	7828.0	7846.9	7863.8	7850.6	7852.5	7799.7	7746.9	7733.6
50°	8637.4	8644.9	8654.4	8635.5	8639.3	8580.8	8520.4	8522.3
52.5°	9437.4	9473.2	9510.9	9460.0	9448.7	9382.6	9297.7	9263.8
55°	10352.4	10403.4	10360.0	10271.3	10182.6	10093.9	9982.6	9963.7
57.5°	11480.7	11393.9	11258.0	11090.1	10967.5	10843.0	10729.8	10682.6
60°	13050.4	12724.0	12478.7	12229.7	12073.1	11920.3	11771.2	11748.6
62.5°	15269.2	14705.1	14216.4	13701.3	13280.6	12952.3	12690.1	12616.5
65°	18050.2	16716.3	15559.7	14480.5	13542.8	12835.3	12390.1	12193.8
67.5°	19246.4	16612.5	14629.6	13097.6	11871.2	11014.6	10533.5	10293.9
70°	16912.5	13776.8	11620.3	10086.4	8969.4	8056.3	7620.4	7363.9
72.5°	11635.4	8763.8	6929.9	5656.4	4764.0	3999.8	3698.0	3675.3
75°	5224.3	3460.2	2384.8	1837.7	1547.1	1345.2	1283.0	1235.8
77.5°	1462.2	1081.1	964.1	901.9	841.5	771.7	745.3	750.9
80°	711.3	671.7	645.3	605.6	550.9	492.4	466.0	477.3
82.5°	471.7	466.0	483.0	454.7	375.5	318.9	267.9	245.3
85°	286.8	290.6	296.2	298.1	252.8	177.4	120.7	135.8
87.5°	113.2	130.2	141.5	147.2	137.7	84.9	67.9	69.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)