

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: P194165

Luminaire Tested: **GLEON-AF-07-LED-E1-5MQ-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194165
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-07-LED-E1-5MQ-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 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: 48518 lumens
Efficiency: N/A
Efficacy: 108.3 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): 448
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

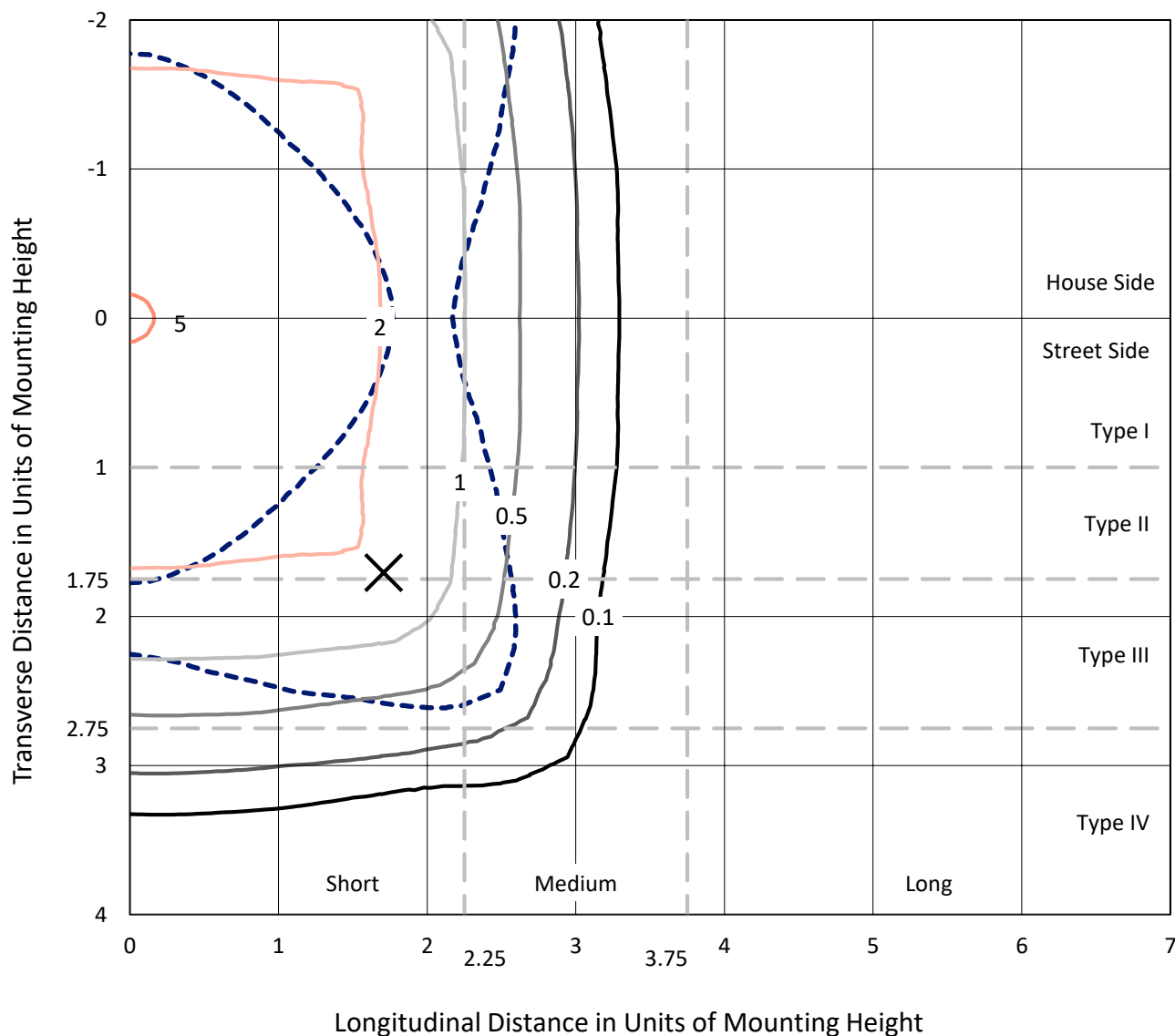


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

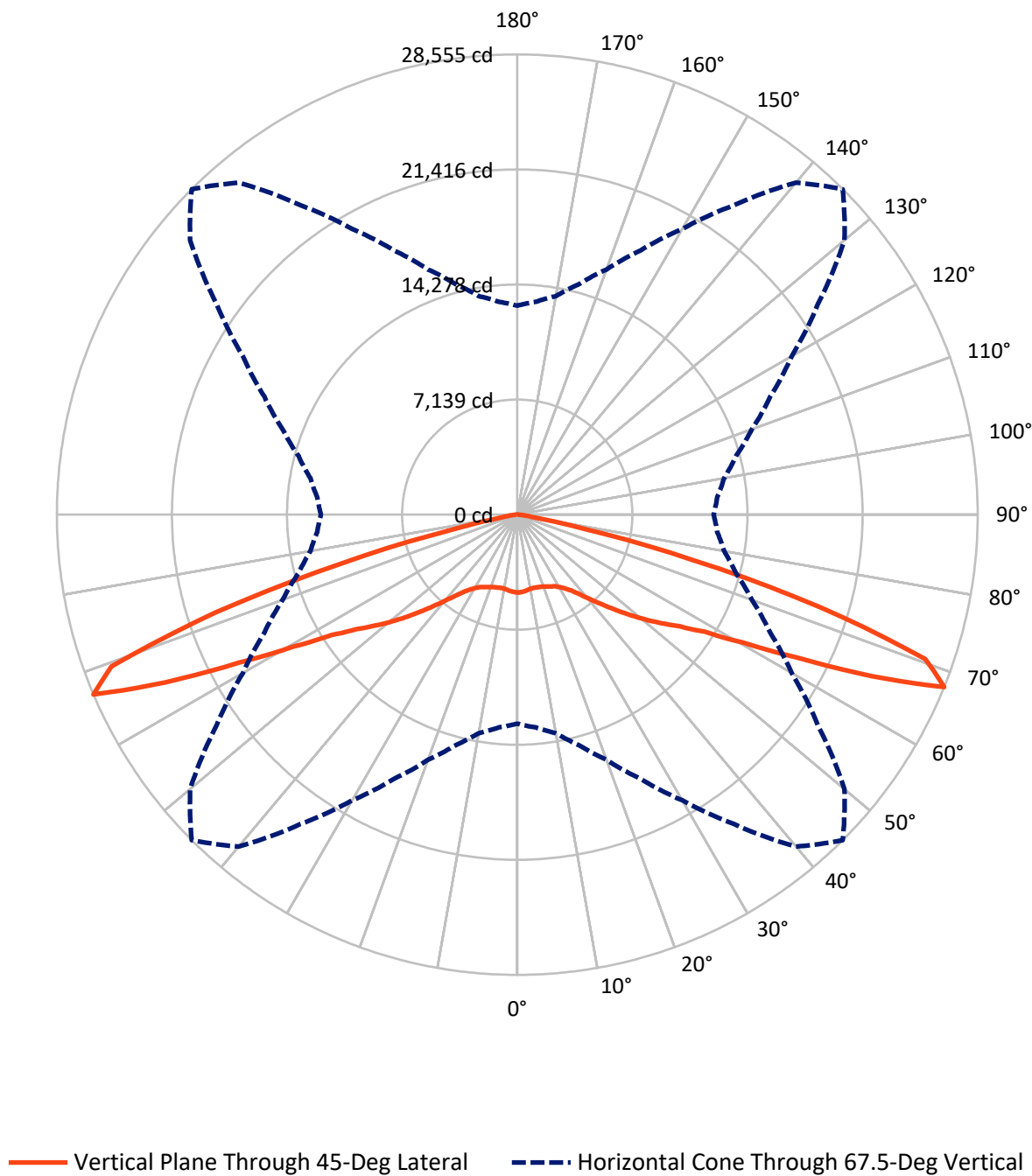


Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24259.0	0.0	24259.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24259.0	0.0	24259.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48518.0	0.0	48518.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.5	0.9
10°-20°	1313.2	2.7
20°-30°	2232.4	4.6
30°-40°	3649.2	7.5
40°-50°	6514.6	13.4
50°-60°	10983.7	22.6
60°-70°	17045.1	35.1
70°-80°	5988.9	12.3
80°-90°	338.5	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°	48518.0	100.0
0°-180°	48518.0	100.0

Coefficient of Utilization



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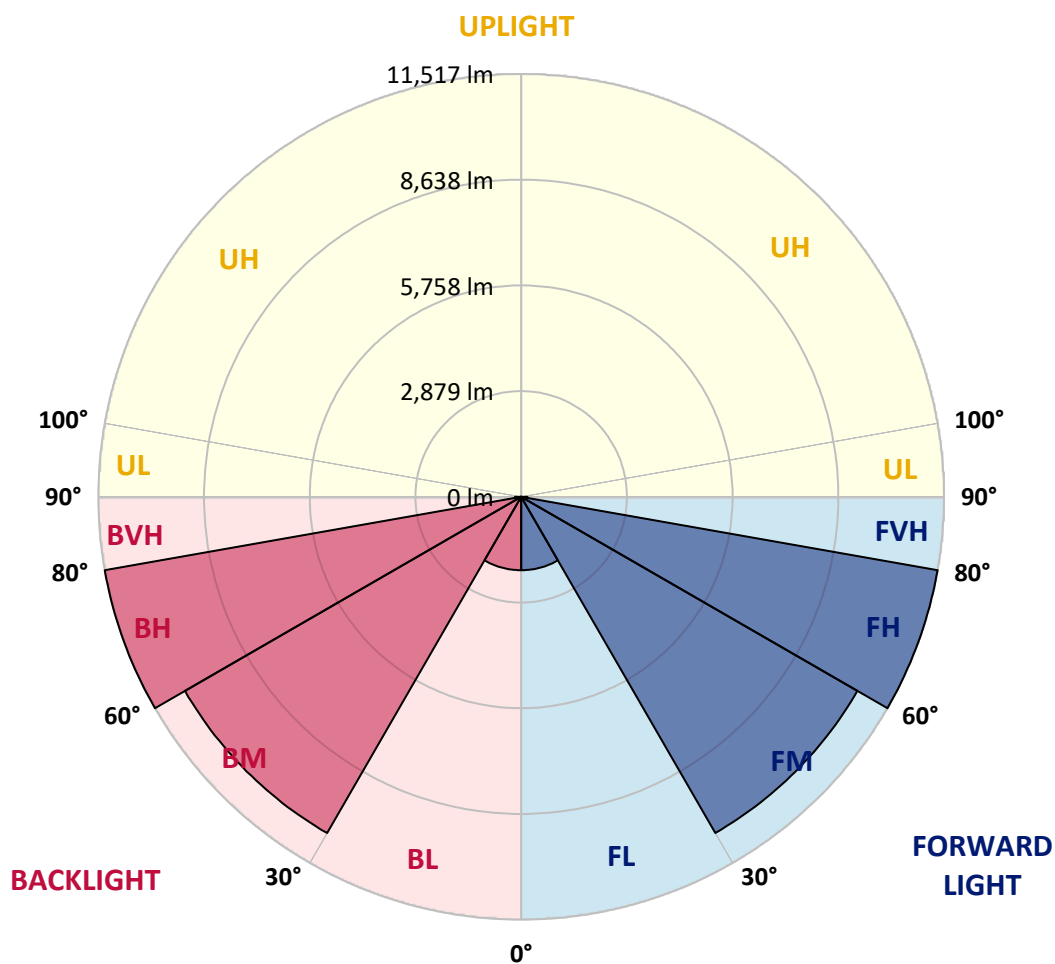
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1999.0	4.1			
FM	(30°-60°)	10573.7	21.8			
FH	(60°-80°)	11517.0	23.7			G4/12000
FVH	(80°-90°)	169.2	0.3			G2/225
BL	(0°-30°)	1999.0	4.1	B3/2500		
BM	(30°-60°)	10573.7	21.8	B5		
BH	(60°-80°)	11517.0	23.7	B5		G4/12000
BVH	(80°-90°)	169.2	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°	4835.0	4835.0	4835.0	4835.0	4835.0	4835.0	4835.0	4835.0	4835.0	4835.0	4835.0
2.5°	4817.2	4821.6	4821.6	4821.6	4819.4	4819.4	4814.9	4819.4	4817.2	4810.5	4812.7
5°	4777.0	4781.5	4781.5	4779.2	4785.9	4783.7	4777.0	4781.5	4779.2	4774.8	4777.0
7.5°	4719.0	4725.7	4725.7	4723.5	4730.2	4727.9	4723.5	4725.7	4725.7	4719.0	4719.0
10°	4654.3	4658.8	4658.8	4656.5	4667.7	4667.7	4665.5	4672.1	4674.4	4667.7	4663.2
12.5°	4594.1	4600.7	4600.7	4609.7	4620.8	4625.3	4636.4	4645.4	4654.3	4652.1	4643.1
15°	4558.4	4562.8	4571.7	4582.9	4600.7	4616.4	4634.2	4654.3	4672.1	4676.6	4663.2
17.5°	4536.0	4542.7	4556.1	4571.7	4596.3	4623.1	4649.8	4676.6	4701.2	4710.1	4694.5
20°	4529.3	4533.8	4547.2	4574.0	4607.4	4647.6	4685.5	4716.8	4750.2	4761.4	4750.2
22.5°	4542.7	4551.7	4567.3	4598.5	4643.1	4694.5	4739.1	4781.5	4823.9	4843.9	4828.3
25°	4603.0	4611.9	4632.0	4672.1	4721.2	4774.8	4826.1	4875.2	4913.1	4933.2	4922.0
27.5°	4714.5	4725.7	4750.2	4790.4	4843.9	4902.0	4957.7	4997.9	5029.1	5035.8	5022.4
30°	4881.9	4906.4	4935.4	4980.1	5042.5	5091.6	5147.4	5183.1	5221.0	5221.0	5209.9
32.5°	5142.9	5167.5	5198.7	5241.1	5290.2	5343.7	5392.8	5424.1	5464.2	5466.5	5439.7
35°	5533.4	5544.5	5571.3	5598.1	5642.7	5689.6	5732.0	5752.0	5785.5	5787.7	5763.2
37.5°	6048.8	6051.0	6068.9	6077.8	6118.0	6169.3	6209.4	6222.8	6254.1	6249.6	6225.1
40°	6649.0	6660.1	6666.8	6680.2	6722.6	6771.7	6814.1	6820.8	6854.3	6847.6	6816.3
42.5°	7342.9	7347.4	7385.3	7405.4	7445.5	7470.1	7523.6	7530.3	7570.5	7552.6	7516.9
45°	8121.6	8161.8	8197.5	8237.6	8280.0	8309.0	8351.4	8342.5	8369.3	8342.5	8322.4
47.5°	8940.4	8969.4	9049.8	9112.2	9181.4	9206.0	9266.2	9239.4	9266.2	9228.3	9221.6
50°	9841.8	9893.2	9962.3	10033.7	10107.4	10147.5	10225.6	10192.1	10227.8	10192.1	10172.1
52.5°	10729.9	10743.3	10895.0	10999.8	11102.5	11149.3	11196.2	11180.6	11182.8	11180.6	11160.5
55°	11573.3	11604.5	11756.2	11899.0	12077.5	12209.2	12289.5	12280.6	12260.5	12240.4	12206.9
57.5°	12523.8	12555.0	12729.0	12905.3	13108.3	13295.8	13458.6	13626.0	13690.7	13708.5	13634.9
60°	13808.9	13806.7	14038.7	14252.9	14543.0	14821.9	15178.9	15542.6	15959.8	16153.9	15897.3
62.5°	15116.4	15170.0	15504.7	15884.0	16481.9	17064.3	17722.5	18369.5	19030.0	19567.7	18996.5
65°	14960.2	15165.5	15663.1	16522.1	17626.5	18938.5	20357.5	21859.1	23215.7	24148.3	23101.9
67.5°	12965.5	13257.8	13764.3	14808.5	16189.6	18081.7	20464.6	23434.4	26886.0	28555.0	26486.6
70°	9397.8	9728.1	10259.1	11278.7	12646.5	14444.8	17033.0	20598.5	25168.0	26850.3	24572.3
72.5°	4676.6	4855.1	5183.1	5832.4	6867.7	8326.9	10674.1	14101.2	18144.2	19688.2	17606.4
75°	1588.6	1671.2	1727.0	1938.9	2266.9	2840.3	4007.2	6164.8	9404.5	11274.3	9270.7
77.5°	917.0	919.3	957.2	995.1	1050.9	1113.4	1269.6	1666.7	2882.7	4094.3	2983.1
80°	593.5	591.3	622.5	651.5	689.4	720.7	729.6	772.0	890.3	1055.4	943.8
82.5°	307.9	345.8	415.0	452.9	524.3	537.7	519.9	504.3	533.3	553.3	566.7
85°	169.6	147.3	220.9	285.6	316.8	321.3	321.3	303.4	314.6	307.9	334.7
87.5°	78.1	71.4	87.0	140.6	149.5	127.2	133.9	118.3	84.8	82.6	93.7
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°	4835.0	4835.0	4835.0	4835.0	4835.0	4835.0	4835.0	4835.0
2.5°	4812.7	4814.9	4814.9	4821.6	4823.9	4828.3	4832.8	4835.0
5°	4774.8	4781.5	4777.0	4783.7	4783.7	4788.2	4788.2	4790.4
7.5°	4719.0	4725.7	4725.7	4725.7	4723.5	4730.2	4730.2	4730.2
10°	4661.0	4665.5	4663.2	4658.8	4654.3	4661.0	4658.8	4656.5
12.5°	4643.1	4632.0	4623.1	4618.6	4609.7	4611.9	4605.2	4605.2
15°	4654.3	4634.2	4618.6	4611.9	4603.0	4598.5	4594.1	4596.3
17.5°	4683.3	4658.8	4638.7	4627.5	4616.4	4609.7	4600.7	4603.0
20°	4734.6	4705.6	4676.6	4654.3	4634.2	4623.1	4616.4	4614.1
22.5°	4810.5	4768.1	4725.7	4692.2	4665.5	4649.8	4643.1	4638.7
25°	4897.5	4850.6	4801.6	4763.6	4736.9	4716.8	4703.4	4703.4
27.5°	5006.8	4968.9	4924.3	4879.6	4855.1	4835.0	4826.1	4821.6
30°	5189.8	5154.1	5118.4	5076.0	5044.8	5024.7	5009.1	4995.7
32.5°	5424.1	5395.1	5366.1	5334.8	5305.8	5279.0	5254.5	5243.3
35°	5754.3	5732.0	5711.9	5676.2	5665.0	5649.4	5636.0	5624.9
37.5°	6209.4	6200.5	6200.5	6162.6	6153.7	6147.0	6133.6	6135.8
40°	6807.4	6816.3	6805.2	6791.8	6785.1	6767.2	6767.2	6782.9
42.5°	7514.7	7521.4	7545.9	7523.6	7548.2	7525.9	7512.5	7523.6
45°	8335.8	8360.3	8409.4	8387.1	8402.7	8364.8	8317.9	8320.2
47.5°	9257.3	9279.6	9299.7	9284.0	9286.3	9223.8	9161.3	9145.7
50°	10214.5	10223.4	10234.5	10212.2	10216.7	10147.5	10076.1	10078.4
52.5°	11160.5	11202.9	11247.5	11187.3	11173.9	11095.8	10995.4	10955.2
55°	12242.6	12302.9	12251.6	12146.7	12041.8	11937.0	11805.3	11783.0
57.5°	13576.9	13474.3	13313.6	13115.0	12970.0	12822.7	12688.9	12633.1
60°	15433.3	15047.3	14757.2	14462.7	14277.5	14096.8	13920.5	13893.7
62.5°	18057.1	17390.0	16812.1	16203.0	15705.5	15317.2	15007.1	14920.1
65°	21345.9	19768.5	18400.8	17124.5	16015.6	15178.9	14652.3	14420.3
67.5°	22760.5	19645.8	17300.8	15489.0	14038.7	13025.8	12456.8	12173.5
70°	20000.5	16292.3	13742.0	11928.0	10607.2	9527.2	9011.8	8708.4
72.5°	13759.8	10364.0	8195.2	6689.2	5633.8	4730.2	4373.2	4346.4
75°	6178.2	4092.0	2820.2	2173.2	1829.6	1590.8	1517.2	1461.4
77.5°	1729.2	1278.5	1140.1	1066.5	995.1	912.6	881.3	888.0
80°	841.2	794.3	763.1	716.2	651.5	582.3	551.1	564.5
82.5°	557.8	551.1	571.2	537.7	444.0	377.1	316.8	290.1
85°	339.1	343.6	350.3	352.5	299.0	209.7	142.8	160.6
87.5°	133.9	154.0	167.3	174.0	162.9	100.4	80.3	82.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)