

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: P193368

Luminaire Tested: **GLEON-AF-10-LED-E1-5MQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193368
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 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: 55403 lumens
Efficiency: N/A
Efficacy: 86.6 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 - G5

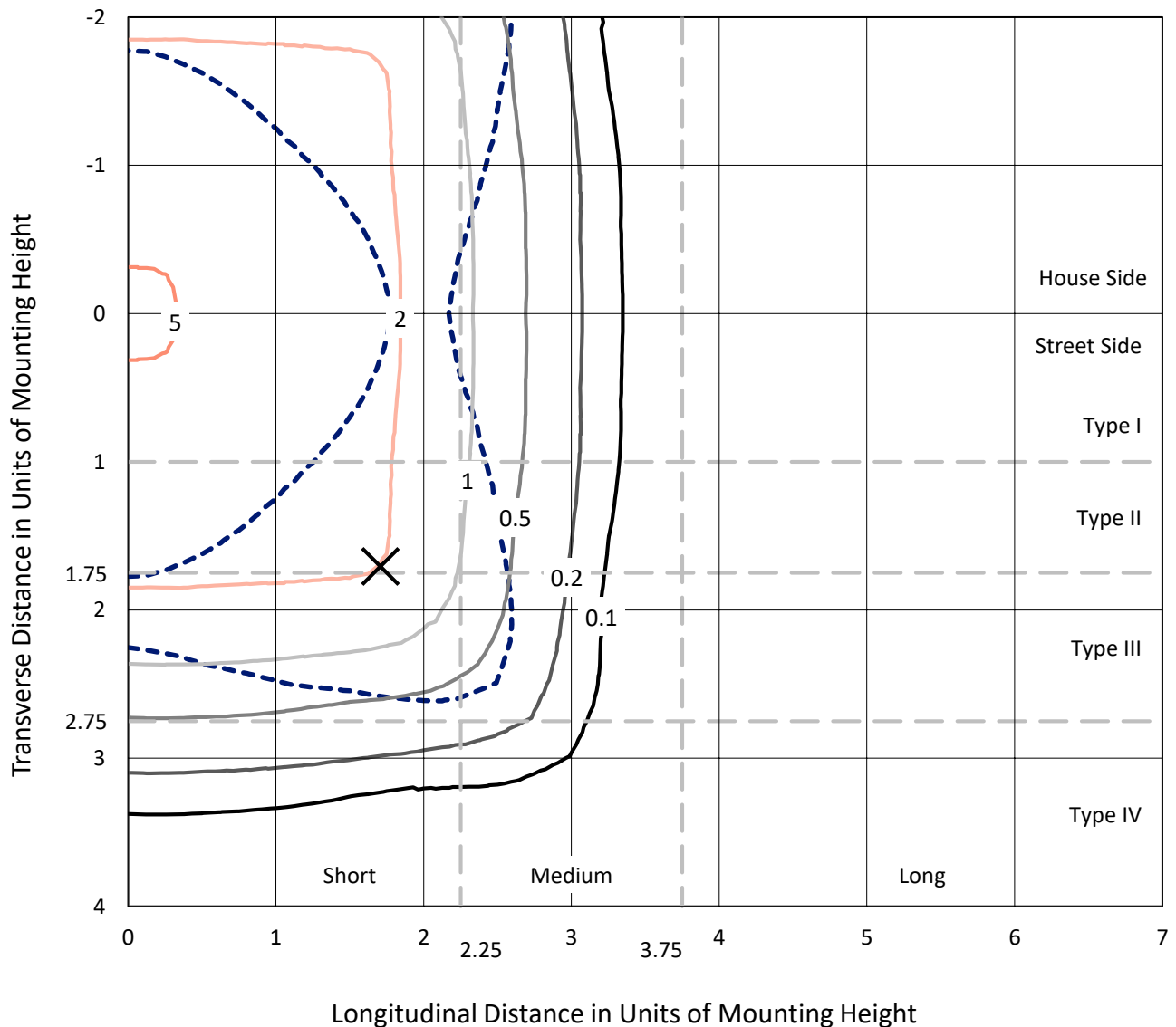
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

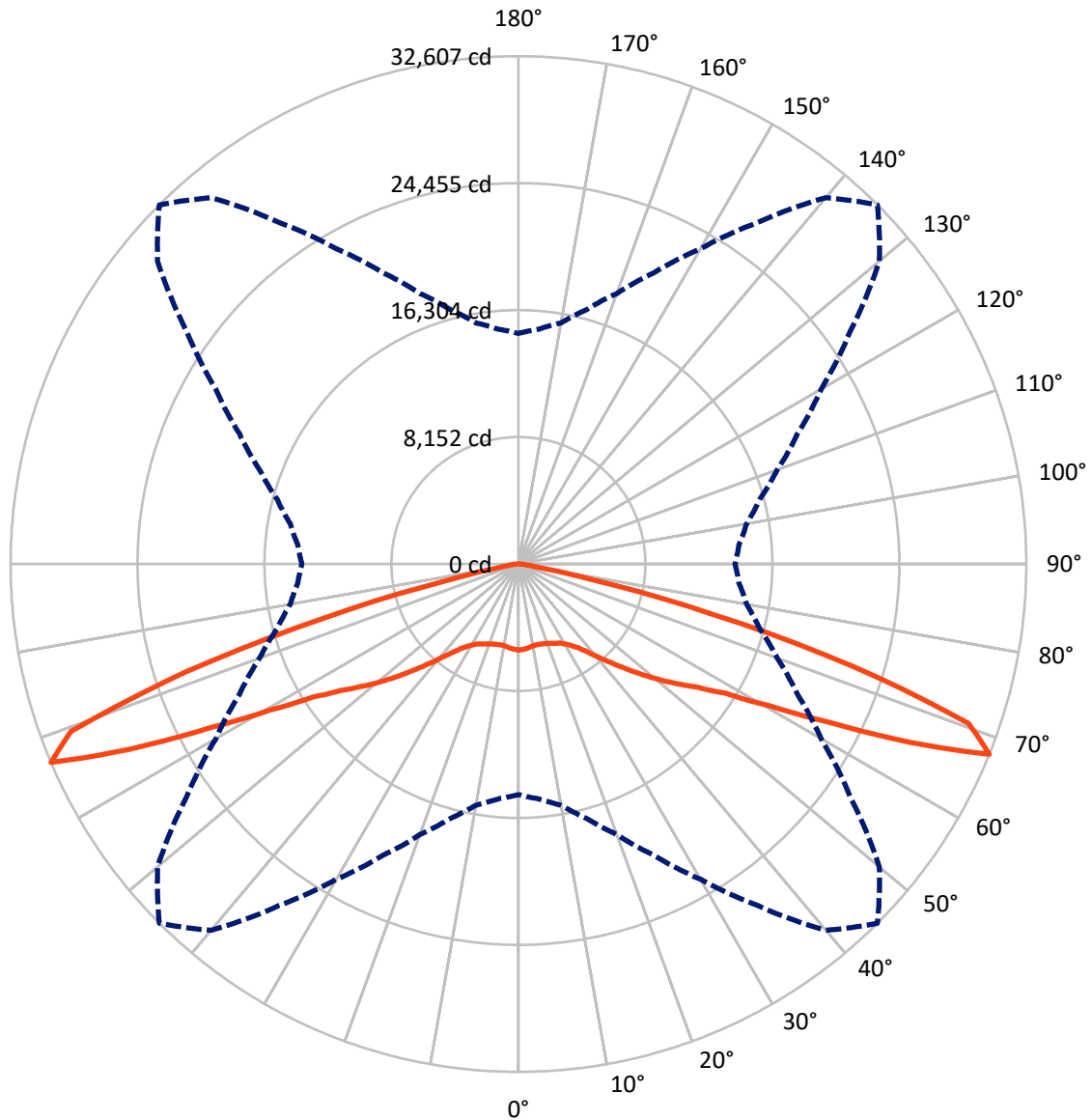


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - Full Cutoff

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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	27701.5	0.0	27701.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27701.5	0.0	27701.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	55403.0	0.0	55403.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.8	0.9
10°-20°	1499.5	2.7
20°-30°	2549.2	4.6
30°-40°	4167.1	7.5
40°-50°	7439.0	13.4
50°-60°	12542.4	22.6
60°-70°	19463.9	35.1
70°-80°	6838.8	12.3
80°-90°	386.5	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°	55403.0	100.0
0°-180°	55403.0	100.0



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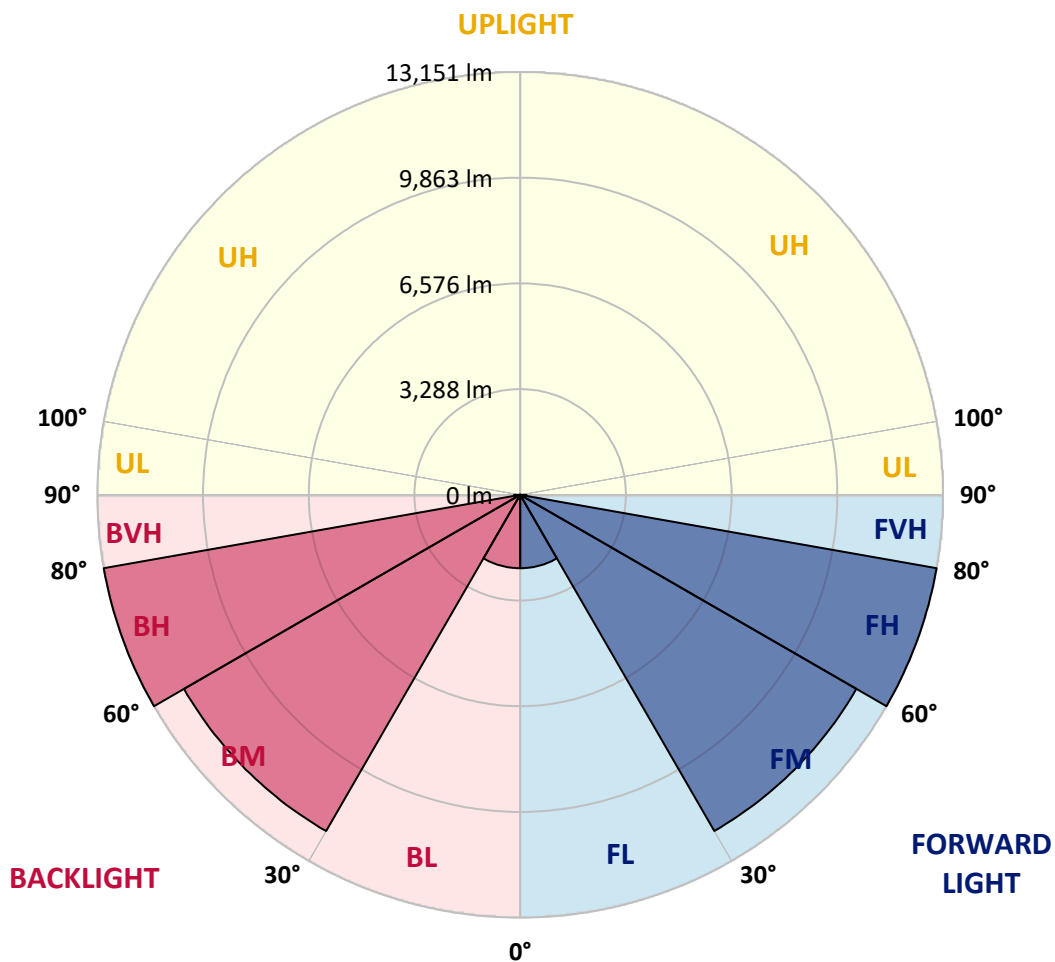
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2282.7	4.1			
FM	(30°-60°)	12074.2	21.8			
FH	(60°-80°)	13151.3	23.7			G5
FVH	(80°-90°)	193.2	0.3			G2/225
BL	(0°-30°)	2282.7	4.1	B3/2500		
BM	(30°-60°)	12074.2	21.8	B5		
BH	(60°-80°)	13151.3	23.7	B5		G5
BVH	(80°-90°)	193.2	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5521.1	5521.1	5521.1	5521.1	5521.1	5521.1	5521.1	5521.1	5521.1	5521.1	5521.1
2.5°	5500.8	5505.9	5505.9	5505.9	5503.3	5503.3	5498.2	5503.3	5500.8	5493.1	5495.7
5°	5454.9	5460.0	5460.0	5457.4	5465.1	5462.5	5454.9	5460.0	5457.4	5452.4	5454.9
7.5°	5388.7	5396.3	5396.3	5393.8	5401.4	5398.8	5393.8	5396.3	5396.3	5388.7	5388.7
10°	5314.8	5319.9	5319.9	5317.3	5330.1	5330.1	5327.5	5335.2	5337.7	5330.1	5325.0
12.5°	5246.0	5253.6	5253.6	5263.8	5276.6	5281.6	5294.4	5304.6	5314.8	5312.2	5302.0
15°	5205.2	5210.3	5220.5	5233.2	5253.6	5271.5	5291.8	5314.8	5335.2	5340.2	5325.0
17.5°	5179.7	5187.4	5202.7	5220.5	5248.5	5279.1	5309.7	5340.2	5368.3	5378.5	5360.6
20°	5172.1	5177.2	5192.5	5223.0	5261.3	5307.1	5350.4	5386.1	5424.3	5437.1	5424.3
22.5°	5187.4	5197.6	5215.4	5251.1	5302.0	5360.6	5411.6	5460.0	5508.4	5531.3	5513.5
25°	5256.2	5266.4	5289.3	5335.2	5391.2	5452.4	5511.0	5567.0	5610.3	5633.2	5620.5
27.5°	5383.6	5396.3	5424.3	5470.2	5531.3	5597.6	5661.3	5707.1	5742.8	5750.4	5735.2
30°	5574.6	5602.7	5635.8	5686.8	5758.1	5814.1	5877.8	5918.6	5961.9	5961.9	5949.2
32.5°	5872.7	5900.8	5936.4	5984.8	6040.9	6102.0	6158.1	6193.8	6239.6	6242.2	6211.6
35°	6318.6	6331.4	6361.9	6392.5	6443.5	6497.0	6545.4	6568.3	6606.5	6609.1	6581.0
37.5°	6907.2	6909.7	6930.1	6940.3	6986.1	7044.7	7090.6	7105.9	7141.6	7136.5	7108.4
40°	7592.5	7605.3	7612.9	7628.2	7676.6	7732.7	7781.1	7788.7	7826.9	7819.3	7783.6
42.5°	8384.9	8390.0	8433.3	8456.2	8502.1	8530.1	8591.3	8598.9	8644.8	8624.4	8583.6
45°	9274.1	9320.0	9360.7	9406.6	9455.0	9488.1	9536.5	9526.3	9556.9	9526.3	9503.4
47.5°	10209.1	10242.3	10334.0	10405.3	10484.3	10512.3	10581.1	10550.6	10581.1	10537.8	10530.2
50°	11238.5	11297.1	11376.1	11457.6	11541.7	11587.5	11676.7	11638.5	11679.2	11638.5	11615.5
52.5°	12252.5	12267.8	12441.0	12560.8	12678.0	12731.5	12785.0	12767.2	12769.7	12767.2	12744.2
55°	13215.6	13251.3	13424.5	13587.6	13791.4	13941.7	14033.4	14023.2	14000.3	13977.4	13939.2
57.5°	14301.0	14336.6	14535.4	14736.6	14968.5	15182.5	15368.5	15559.6	15633.5	15653.9	15569.8
60°	15768.5	15766.0	16030.9	16275.5	16606.7	16925.2	17332.9	17748.2	18224.6	18446.3	18153.3
62.5°	17261.5	17322.7	17704.9	18138.0	18820.8	19485.8	20237.4	20976.3	21730.4	22344.4	21692.2
65°	17083.2	17317.6	17885.8	18866.7	20127.8	21626.0	23246.4	24961.1	26510.1	27575.1	26380.2
67.5°	14805.4	15139.2	15717.5	16909.9	18487.0	20647.6	23368.7	26759.8	30701.3	32607.1	30245.3
70°	10731.5	11108.5	11714.9	12879.3	14441.1	16494.6	19450.1	23521.5	28739.5	30660.6	28059.2
72.5°	5340.2	5544.1	5918.6	6660.0	7842.2	9508.5	12188.8	16102.3	20718.9	22482.0	20104.9
75°	1814.1	1908.3	1972.0	2214.1	2588.6	3243.4	4575.9	7039.6	10739.1	12874.2	10586.2
77.5°	1047.2	1049.7	1093.0	1136.3	1200.0	1271.4	1449.7	1903.2	3291.8	4675.3	3406.4
80°	677.7	675.2	710.8	744.0	787.3	822.9	833.1	881.5	1016.6	1205.1	1077.7
82.5°	351.6	394.9	473.9	517.2	598.7	614.0	593.6	575.8	608.9	631.9	647.1
85°	193.6	168.2	252.2	326.1	361.8	366.9	366.9	346.5	359.2	351.6	382.2
87.5°	89.2	81.5	99.4	160.5	170.7	145.2	152.9	135.0	96.8	94.3	107.0
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°	5521.1	5521.1	5521.1	5521.1	5521.1	5521.1	5521.1	5521.1
2.5°	5495.7	5498.2	5498.2	5505.9	5508.4	5513.5	5518.6	5521.1
5°	5452.4	5460.0	5454.9	5462.5	5462.5	5467.6	5467.6	5470.2
7.5°	5388.7	5396.3	5396.3	5396.3	5393.8	5401.4	5401.4	5401.4
10°	5322.4	5327.5	5325.0	5319.9	5314.8	5322.4	5319.9	5317.3
12.5°	5302.0	5289.3	5279.1	5274.0	5263.8	5266.4	5258.7	5258.7
15°	5314.8	5291.8	5274.0	5266.4	5256.2	5251.1	5246.0	5248.5
17.5°	5347.9	5319.9	5296.9	5284.2	5271.5	5263.8	5253.6	5256.2
20°	5406.5	5373.4	5340.2	5314.8	5291.8	5279.1	5271.5	5268.9
22.5°	5493.1	5444.7	5396.3	5358.1	5327.5	5309.7	5302.0	5296.9
25°	5592.5	5539.0	5482.9	5439.6	5409.0	5386.1	5370.8	5370.8
27.5°	5717.3	5674.0	5623.1	5572.1	5544.1	5521.1	5511.0	5505.9
30°	5926.2	5885.5	5844.7	5796.3	5760.6	5737.7	5719.9	5704.6
32.5°	6193.8	6160.6	6127.5	6091.9	6058.7	6028.2	6000.1	5987.4
35°	6570.8	6545.4	6522.4	6481.7	6468.9	6451.1	6435.8	6423.1
37.5°	7090.6	7080.4	7080.4	7037.1	7026.9	7019.3	7004.0	7006.5
40°	7773.4	7783.6	7770.9	7755.6	7747.9	7727.6	7727.6	7745.4
42.5°	8581.1	8588.7	8616.8	8591.3	8619.3	8593.8	8578.5	8591.3
45°	9518.7	9546.7	9602.8	9577.3	9595.1	9551.8	9498.3	9500.8
47.5°	10570.9	10596.4	10619.3	10601.5	10604.1	10532.7	10461.4	10443.5
50°	11664.0	11674.1	11686.9	11661.4	11666.5	11587.5	11506.0	11508.5
52.5°	12744.2	12792.6	12843.6	12774.8	12759.5	12670.3	12555.7	12509.8
55°	13979.9	14048.7	13990.1	13870.4	13750.6	13630.9	13480.6	13455.1
57.5°	15503.5	15386.3	15202.9	14976.1	14810.5	14642.4	14489.5	14425.8
60°	17623.3	17182.6	16851.3	16515.0	16303.5	16097.2	15895.9	15865.3
62.5°	20619.6	19857.8	19197.9	18502.3	17934.2	17490.8	17136.7	17037.3
65°	24375.1	22573.8	21011.9	19554.6	18288.3	17332.9	16731.6	16466.6
67.5°	25990.4	22433.6	19755.9	17687.0	16030.9	14874.2	14224.5	13900.9
70°	22838.7	18604.2	15692.1	13620.7	12112.4	10879.2	10290.7	9944.2
72.5°	15712.5	11834.7	9358.2	7638.4	6433.3	5401.4	4993.7	4963.2
75°	7054.9	4672.7	3220.5	2481.6	2089.2	1816.6	1732.5	1668.8
77.5°	1974.6	1459.9	1301.9	1217.9	1136.3	1042.1	1006.4	1014.0
80°	960.5	907.0	871.4	817.9	744.0	665.0	629.3	644.6
82.5°	637.0	629.3	652.2	614.0	507.0	430.6	361.8	331.2
85°	387.3	392.4	400.0	402.6	341.4	239.5	163.1	183.4
87.5°	152.9	175.8	191.1	198.7	186.0	114.7	91.7	94.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)