

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: P191664

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40285 lumens
Efficiency: N/A
Efficacy: 105.5 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 - G3

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

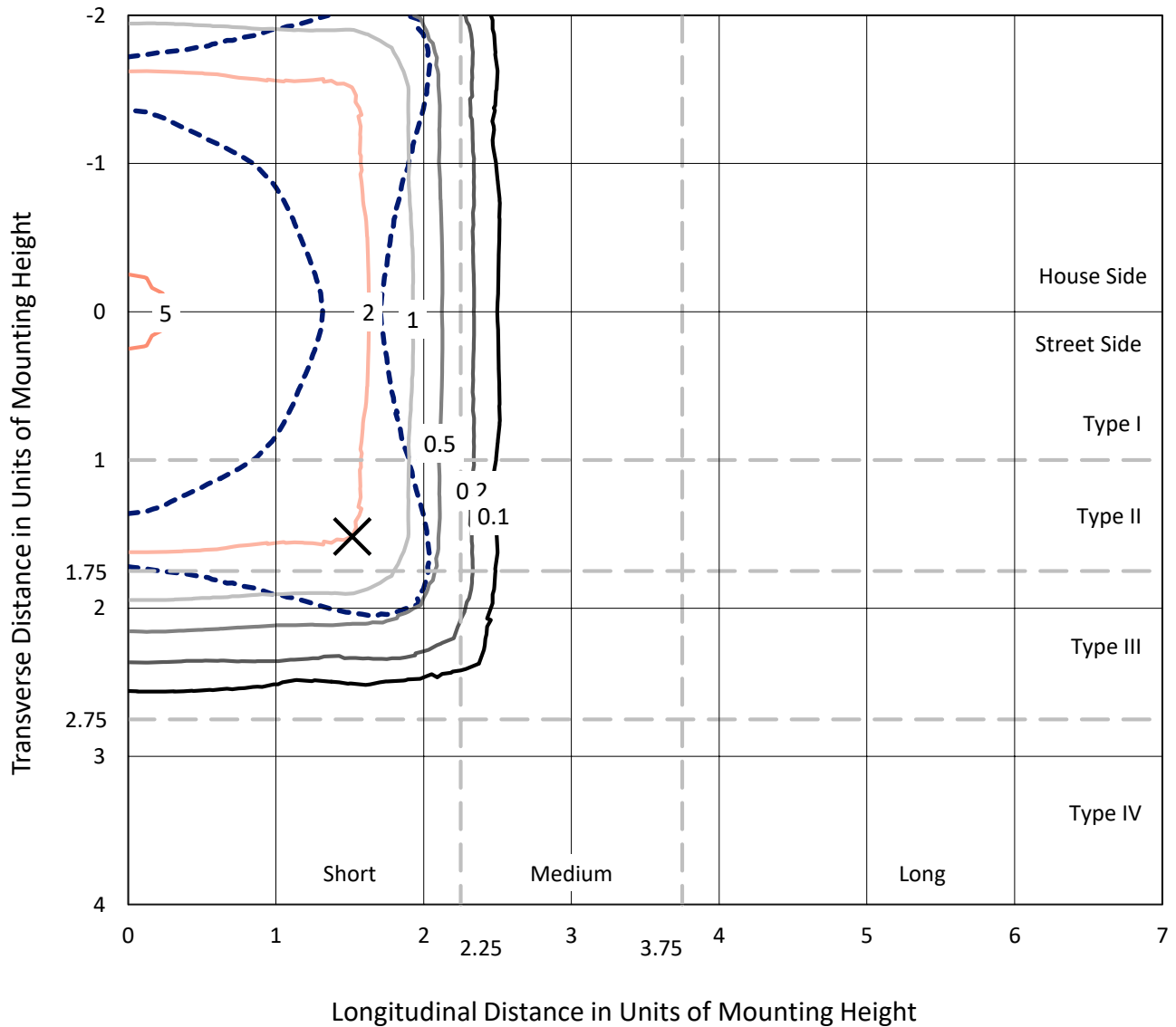


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

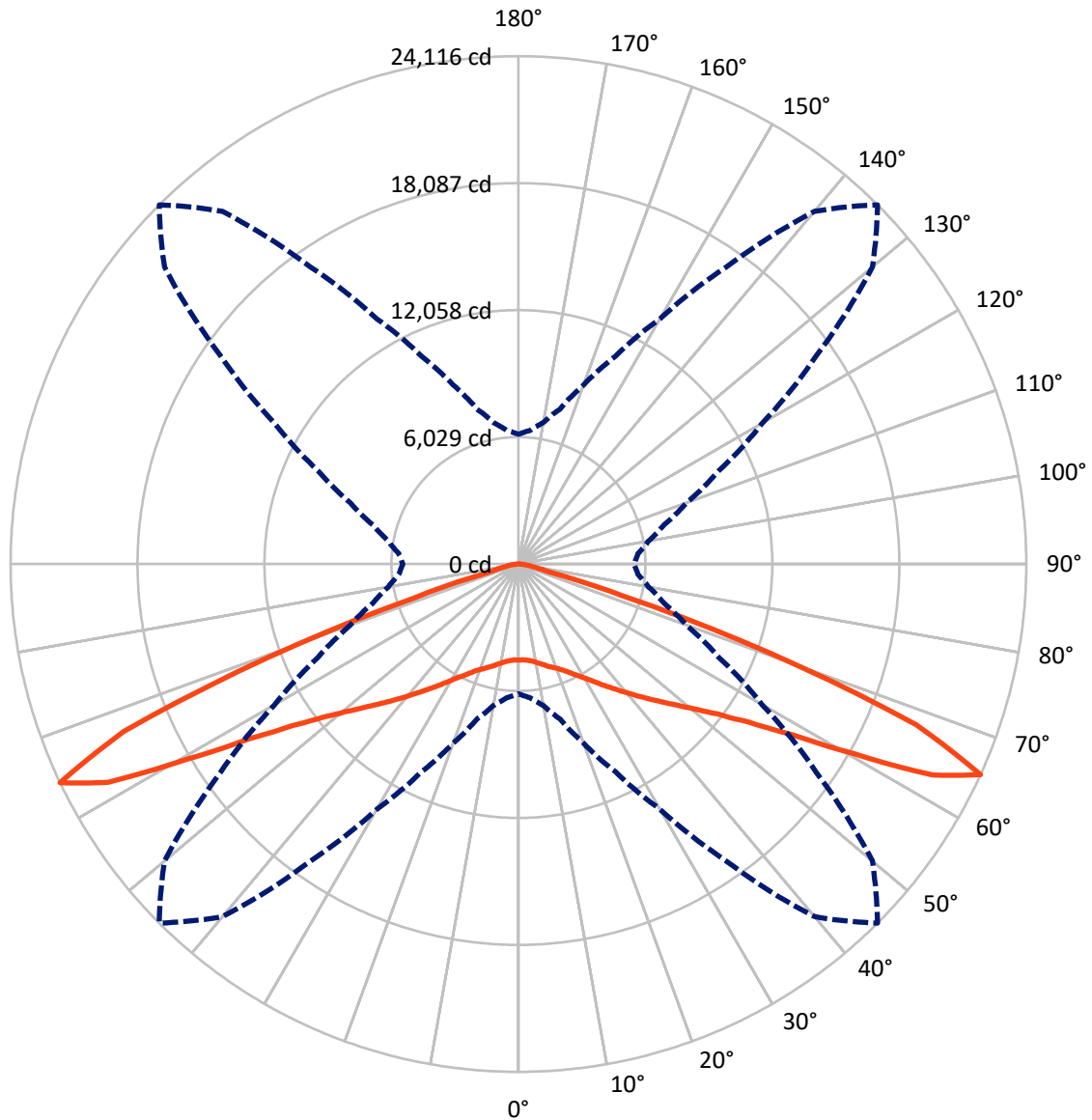


Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20142.5	0.0	20142.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20142.5	0.0	20142.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40285.0	0.0	40285.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.3	1.1
10°-20°	1424.9	3.5
20°-30°	2664.3	6.6
30°-40°	4506.1	11.2
40°-50°	7367.9	18.3
50°-60°	11716.1	29.1
60°-70°	10590.6	26.3
70°-80°	1340.3	3.3
80°-90°	230.6	0.6
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°	40285.0	100.0
0°-180°	40285.0	100.0



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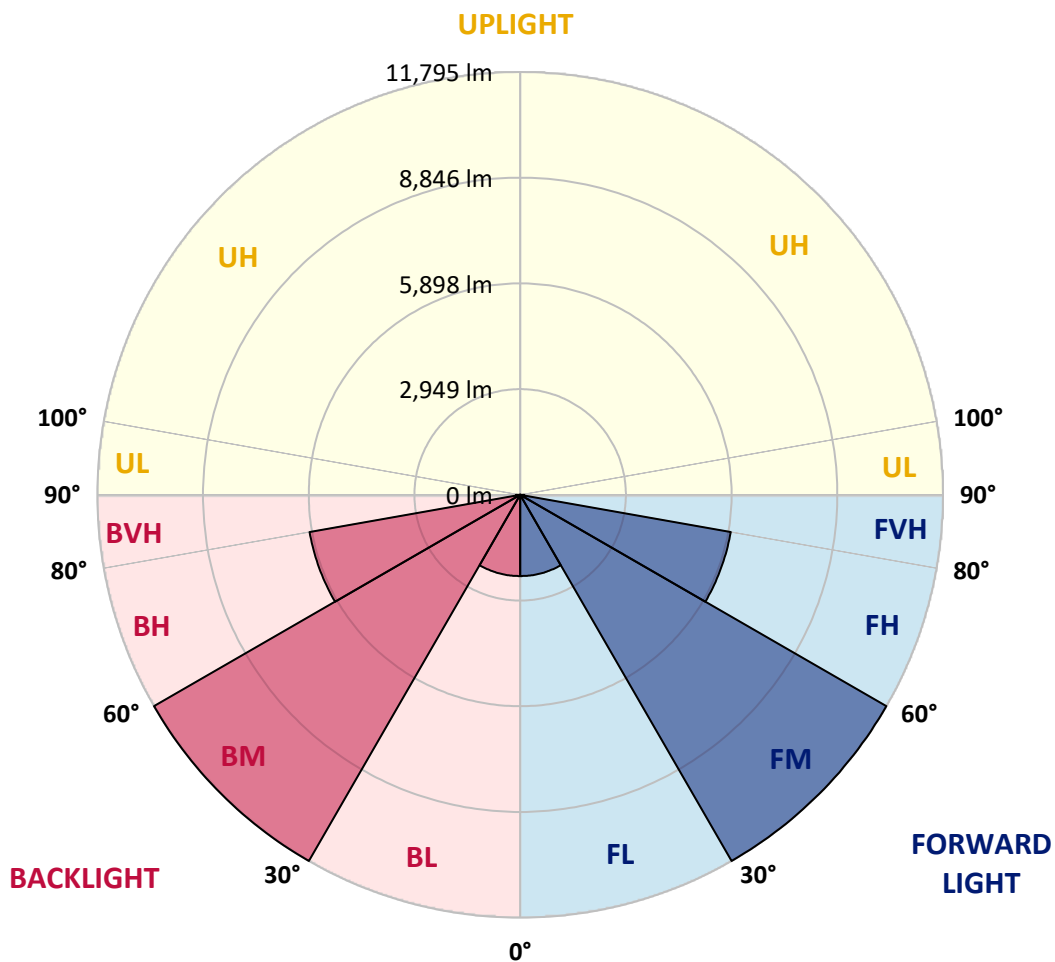
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2266.7	5.6			
FM (30°-60°)	11795.0	29.3			
FH (60°-80°)	5965.4	14.8			G3/7500
FVH (80°-90°)	115.3	0.3			G2/225
BL (0°-30°)	2266.7	5.6	B3/2500		
BM (30°-60°)	11795.0	29.3	B5		
BH (60°-80°)	5965.4	14.8	B5		G3/7500
BVH (80°-90°)	115.3	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4558.3	4558.3	4558.3	4558.3	4558.3	4558.3	4558.3	4558.3	4558.3	4558.3	4558.3
2.5°	4562.0	4565.8	4569.6	4565.8	4569.6	4563.9	4560.2	4565.8	4560.2	4554.5	4558.3
5°	4601.7	4603.6	4603.6	4597.9	4603.6	4599.8	4594.1	4601.7	4596.0	4590.3	4594.1
7.5°	4667.7	4675.2	4669.6	4663.9	4667.7	4663.9	4660.2	4662.0	4660.2	4654.5	4656.4
10°	4756.4	4762.0	4758.3	4756.4	4760.1	4758.3	4754.5	4752.6	4754.5	4748.8	4748.8
12.5°	4863.9	4862.0	4860.1	4862.0	4867.7	4867.7	4865.8	4867.7	4871.5	4873.3	4869.6
15°	4969.6	4973.3	4973.3	4973.3	4984.7	4994.1	4999.8	5003.5	5011.1	5013.0	5005.4
17.5°	5101.6	5101.6	5099.8	5101.6	5113.0	5128.1	5133.7	5141.3	5148.8	5154.5	5145.0
20°	5248.8	5252.6	5252.6	5256.3	5271.4	5288.4	5288.4	5292.2	5288.4	5292.2	5286.5
22.5°	5428.0	5439.4	5439.4	5441.2	5456.3	5477.1	5471.4	5477.1	5467.7	5475.2	5467.7
25°	5662.0	5679.0	5675.2	5675.2	5686.5	5699.7	5701.6	5712.9	5711.0	5720.5	5714.8
27.5°	5926.1	5952.5	5960.1	5958.2	5965.7	5979.0	5982.7	5995.9	5988.4	5995.9	5992.2
30°	6243.1	6254.4	6269.5	6275.2	6284.6	6297.8	6297.8	6299.7	6290.3	6301.6	6307.2
32.5°	6571.4	6592.1	6607.2	6641.2	6658.2	6667.6	6665.7	6669.5	6660.1	6675.1	6686.5
35°	7005.3	7020.4	7044.9	7071.4	7094.0	7092.1	7086.4	7088.3	7088.3	7101.5	7112.9
37.5°	7527.9	7531.7	7563.8	7601.5	7612.8	7601.5	7567.6	7560.0	7543.0	7560.0	7578.9
40°	8080.7	8093.9	8158.1	8182.6	8188.3	8167.5	8118.5	8090.2	8052.4	8073.2	8099.6
42.5°	8660.0	8686.4	8744.9	8788.3	8807.1	8793.9	8726.0	8682.6	8633.5	8644.9	8671.3
45°	9301.4	9333.5	9416.5	9458.0	9493.9	9473.1	9407.1	9341.1	9263.7	9269.4	9310.9
47.5°	10018.4	10050.5	10158.0	10227.8	10246.7	10242.9	10169.3	10078.8	9973.1	9969.3	10005.2
50°	10822.1	10854.2	10988.1	11095.7	11150.4	11144.7	11058.0	10929.7	10801.4	10803.2	10848.5
52.5°	11607.0	11646.6	11786.2	11971.1	12078.7	12156.0	12103.2	11982.4	11825.8	11829.6	11871.1
55°	12342.8	12408.8	12569.2	12820.1	13020.1	13237.1	13299.4	13295.6	13201.2	13227.7	13269.2
57.5°	12699.4	12797.5	13044.6	13440.9	13848.4	14289.9	14663.4	14942.7	15061.5	15240.8	15199.3
60°	12023.9	12180.5	12544.7	13127.7	13933.3	14854.0	15840.7	16804.8	17627.4	18248.2	17891.6
62.5°	9844.8	10048.6	10490.1	11237.2	12456.0	13929.5	15818.1	18097.2	20580.1	22078.2	21008.4
65°	6160.1	6371.4	6820.4	7620.4	9046.7	10878.7	13440.9	17218.0	21857.4	24115.8	21938.6
67.5°	2401.8	2516.9	2760.2	3271.5	4343.2	5973.3	8544.9	12831.5	18380.2	20359.4	18038.7
70°	1203.7	1215.0	1260.3	1354.7	1584.8	2058.4	3131.9	5948.8	10541.0	12731.5	10161.8
72.5°	869.8	871.7	894.3	935.8	1009.4	1115.0	1318.8	1820.7	3428.1	5239.4	3213.1
75°	666.0	673.6	686.8	709.4	749.0	801.8	875.4	1049.0	1299.9	1507.5	1267.9
77.5°	513.2	528.3	537.7	558.5	583.0	618.8	639.6	705.6	820.7	864.1	850.9
80°	390.5	403.8	424.5	441.5	458.5	475.4	467.9	498.1	558.5	594.3	575.4
82.5°	249.0	264.1	324.5	339.6	347.2	358.5	345.3	347.2	373.6	396.2	373.6
85°	160.4	169.8	205.7	224.5	226.4	234.0	228.3	215.1	215.1	196.2	220.7
87.5°	73.6	75.5	92.4	109.4	113.2	101.9	100.0	96.2	77.4	73.6	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°	4558.3	4558.3	4558.3	4558.3	4558.3	4558.3	4558.3	4558.3
2.5°	4556.4	4560.2	4562.0	4567.7	4569.6	4569.6	4571.5	4575.2
5°	4592.2	4597.9	4599.8	4607.3	4609.2	4607.3	4611.1	4613.0
7.5°	4656.4	4665.8	4669.6	4677.1	4671.5	4679.0	4680.9	4680.9
10°	4750.7	4760.1	4762.0	4769.6	4765.8	4769.6	4769.6	4765.8
12.5°	4875.2	4877.1	4871.5	4877.1	4869.6	4873.3	4867.7	4863.9
15°	5013.0	5007.3	4994.1	4994.1	4982.8	4984.7	4982.8	4980.9
17.5°	5146.9	5135.6	5126.2	5122.4	5113.0	5111.1	5105.4	5105.4
20°	5294.1	5288.4	5282.8	5275.2	5265.8	5256.3	5254.5	5258.2
22.5°	5471.4	5469.5	5469.5	5465.8	5452.6	5443.1	5437.5	5437.5
25°	5709.2	5692.2	5692.2	5690.3	5684.6	5679.0	5667.6	5673.3
27.5°	5977.1	5967.6	5975.2	5973.3	5967.6	5967.6	5960.1	5960.1
30°	6307.2	6303.5	6314.8	6305.4	6286.5	6284.6	6277.1	6267.6
32.5°	6688.4	6684.6	6701.6	6690.2	6660.1	6643.1	6628.0	6620.4
35°	7112.9	7114.7	7135.5	7128.0	7094.0	7082.7	7056.3	7052.5
37.5°	7577.0	7607.2	7643.0	7650.6	7622.3	7614.7	7586.4	7571.3
40°	8122.2	8161.9	8216.6	8229.8	8199.6	8193.9	8154.3	8133.6
42.5°	8703.4	8771.3	8839.2	8850.5	8820.3	8790.1	8752.4	8737.3
45°	9352.4	9433.5	9522.2	9544.8	9499.5	9463.7	9414.6	9414.6
47.5°	10080.6	10182.5	10282.5	10344.8	10303.3	10265.5	10207.1	10169.3
50°	10941.0	11080.6	11210.8	11274.9	11208.9	11137.2	11035.3	11001.4
52.5°	12020.2	12171.1	12284.3	12250.3	12148.5	12048.5	11937.2	11891.9
55°	13397.5	13448.4	13448.4	13320.1	13116.3	12948.4	12773.0	12714.5
57.5°	15120.0	14923.8	14621.9	14238.9	13757.8	13339.0	13056.0	12922.0
60°	17144.5	16201.1	15135.1	14088.0	13227.7	12518.3	12097.5	11905.1
62.5°	18493.4	16025.6	13889.9	12208.8	10971.2	10116.5	9535.4	9309.0
65°	17284.1	13365.4	10505.2	8493.9	7144.9	6275.2	5699.7	5488.4
67.5°	12659.8	8375.1	5594.1	4009.2	2937.6	2343.3	2107.4	2009.3
70°	5682.7	2948.9	1807.5	1411.3	1216.9	1116.9	1073.5	1058.4
72.5°	1713.1	1239.6	1045.2	943.4	866.0	816.9	781.1	777.3
75°	1033.9	860.3	764.1	703.7	654.7	615.1	596.2	590.5
77.5°	722.6	632.0	586.8	543.4	505.6	475.4	458.5	445.3
80°	507.5	464.1	443.4	418.8	394.3	366.0	341.5	330.2
82.5°	339.6	330.2	330.2	315.1	294.3	267.9	218.9	207.5
85°	218.9	217.0	220.7	215.1	200.0	171.7	141.5	134.0
87.5°	101.9	103.8	115.1	113.2	109.4	90.6	71.7	67.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)