

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: P191637

Luminaire Tested: **GLEON-AF-09-LED-E1-5NQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191637
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-09-LED-E1-5NQ-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36166 lumens
Efficiency: N/A
Efficacy: 124.7 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 - G3

Input Watts (W): 290
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

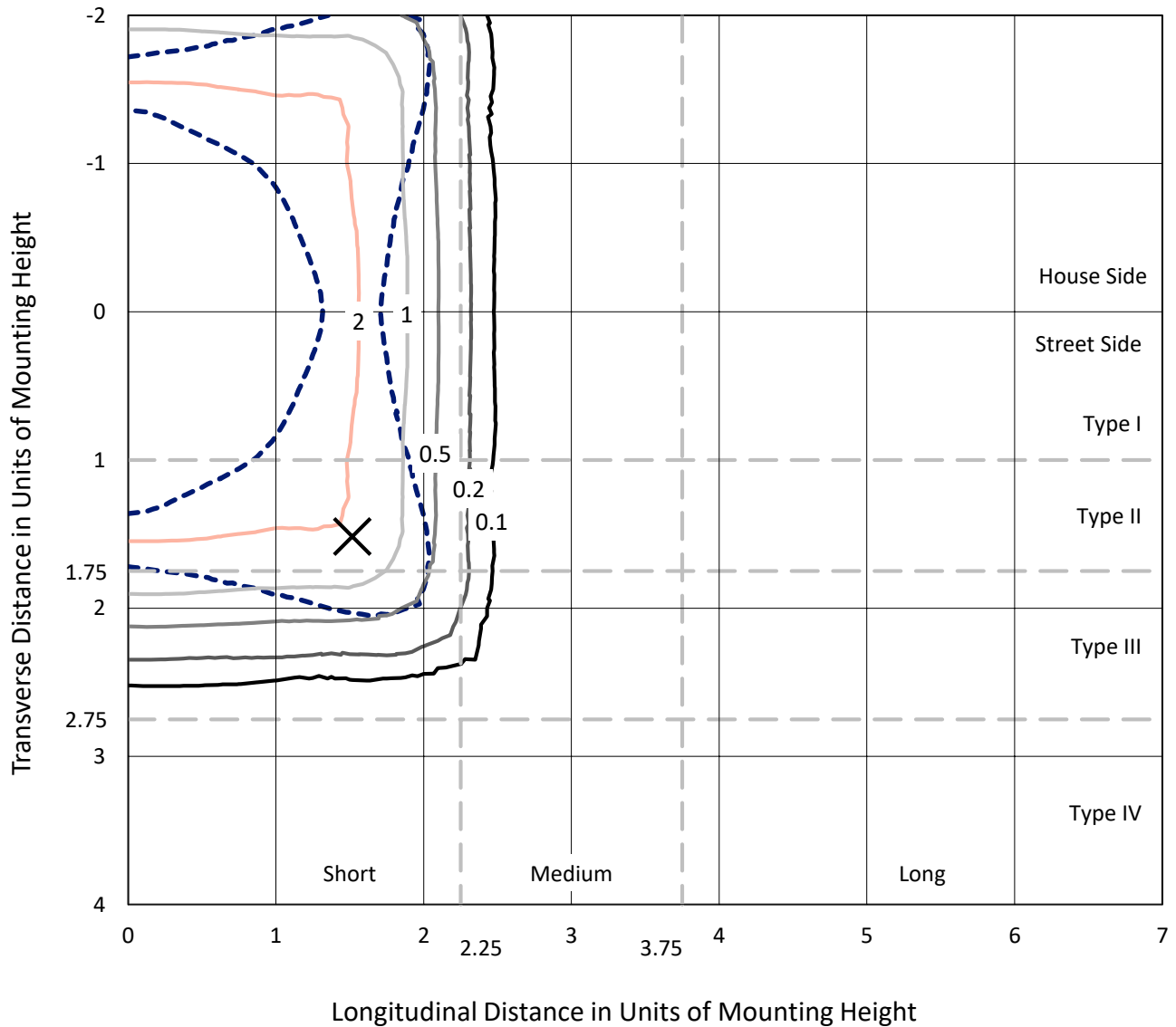


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

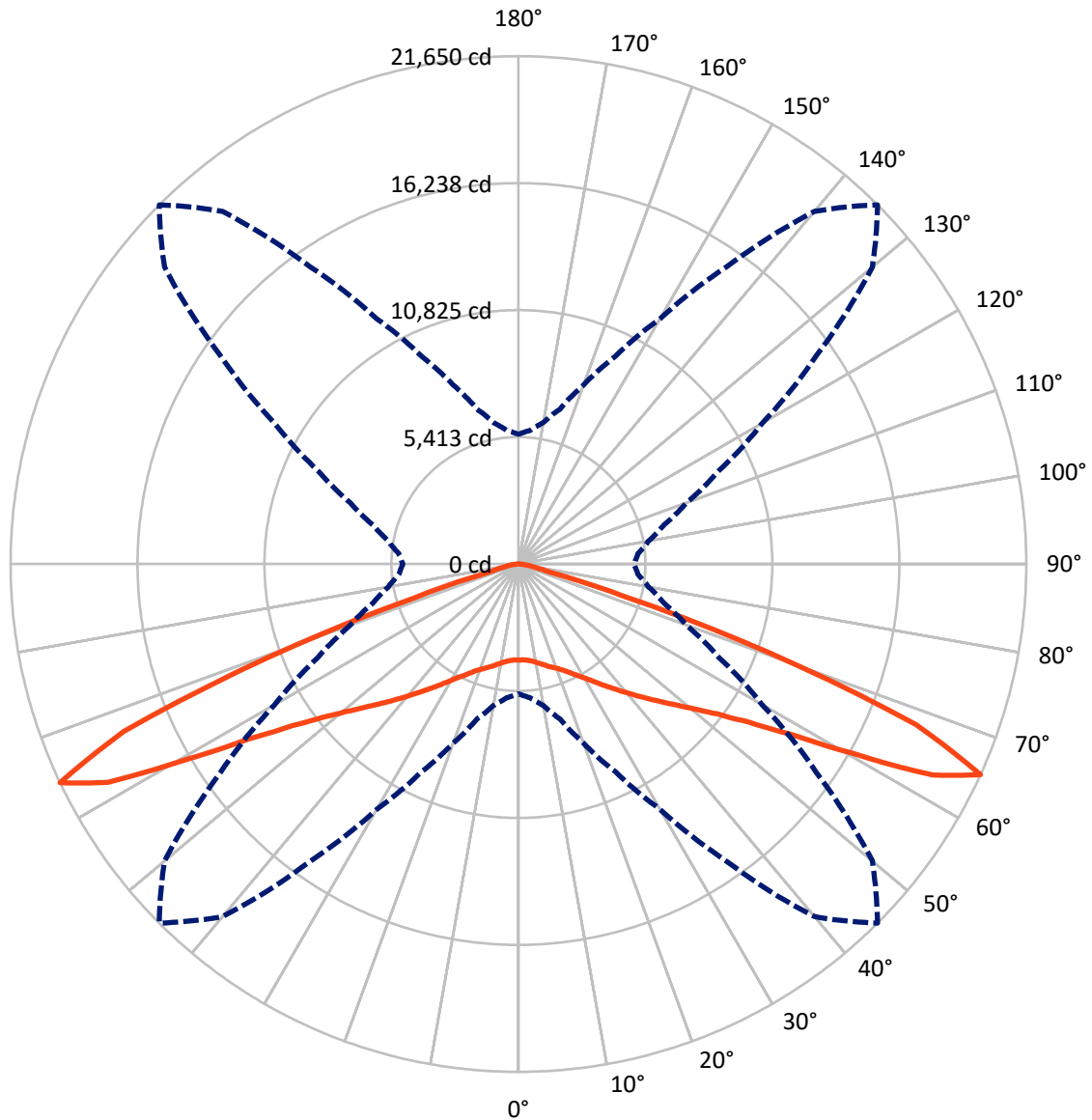


Based on 30 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Full Cutoff

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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	18083.0	0.0	18083.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18083.0	0.0	18083.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36166.0	0.0	36166.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.9	1.1
10°-20°	1279.2	3.5
20°-30°	2391.9	6.6
30°-40°	4045.3	11.2
40°-50°	6614.6	18.3
50°-60°	10518.2	29.1
60°-70°	9507.7	26.3
70°-80°	1203.2	3.3
80°-90°	207.0	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°	36166.0	100.0
0°-180°	36166.0	100.0



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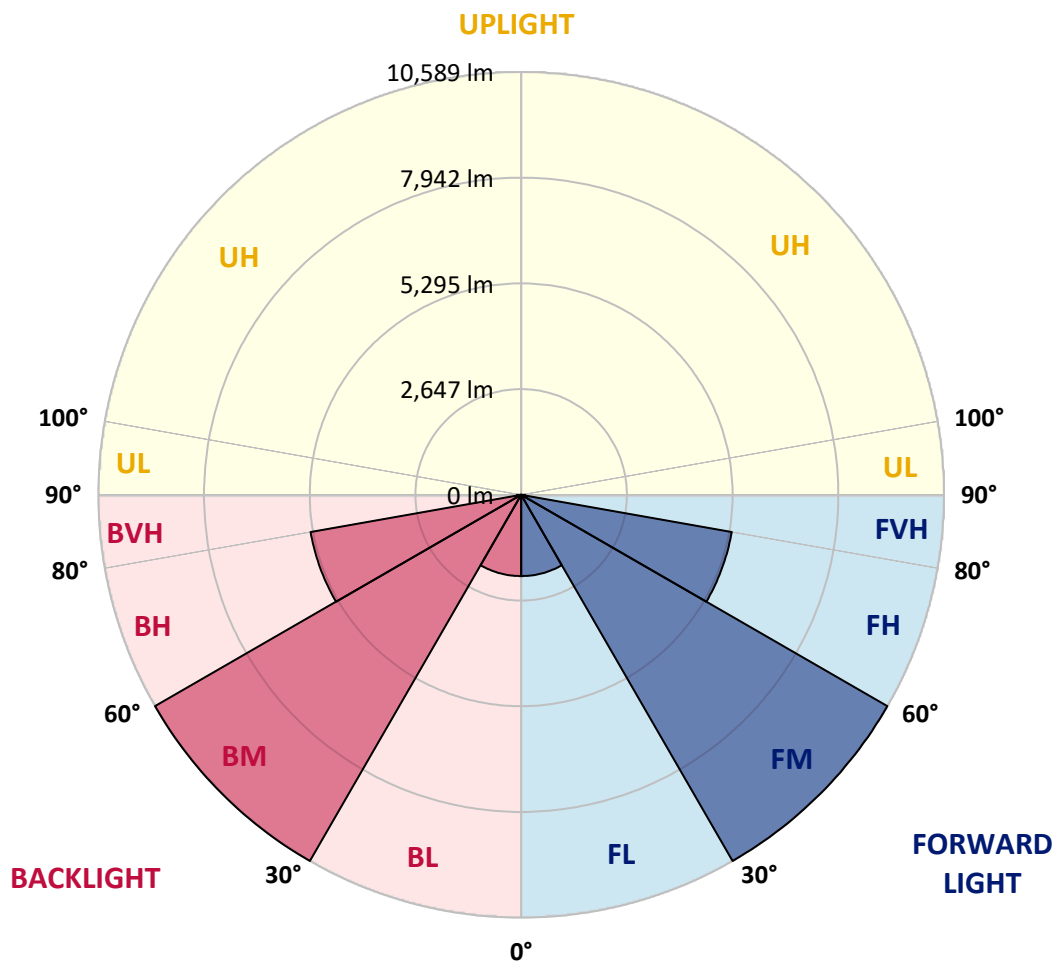
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2035.0	5.6			
FM	(30°-60°)	10589.0	29.3			
FH	(60°-80°)	5355.5	14.8			G3/7500
FVH	(80°-90°)	103.5	0.3			G2/225
BL	(0°-30°)	2035.0	5.6	B3/2500		
BM	(30°-60°)	10589.0	29.3	B5		
BH	(60°-80°)	5355.5	14.8	B5		G3/7500
BVH	(80°-90°)	103.5	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°	4092.2	4092.2	4092.2	4092.2	4092.2	4092.2	4092.2	4092.2	4092.2	4092.2	4092.2
2.5°	4095.6	4099.0	4102.4	4099.0	4102.4	4097.3	4093.9	4099.0	4093.9	4088.8	4092.2
5°	4131.2	4132.9	4132.9	4127.8	4132.9	4129.5	4124.4	4131.2	4126.1	4121.0	4124.4
7.5°	4190.4	4197.2	4192.1	4187.1	4190.4	4187.1	4183.7	4185.4	4183.7	4178.6	4180.3
10°	4270.1	4275.1	4271.7	4270.1	4273.4	4271.7	4268.4	4266.7	4268.4	4263.3	4263.3
12.5°	4366.6	4364.9	4363.2	4364.9	4370.0	4370.0	4368.3	4370.0	4373.4	4375.1	4371.7
15°	4461.4	4464.8	4464.8	4464.8	4475.0	4483.5	4488.5	4491.9	4498.7	4500.4	4493.6
17.5°	4580.0	4580.0	4578.3	4580.0	4590.2	4603.7	4608.8	4615.6	4622.4	4627.4	4619.0
20°	4712.1	4715.5	4715.5	4718.9	4732.5	4747.7	4747.7	4751.1	4747.7	4751.1	4746.0
22.5°	4873.0	4883.2	4883.2	4884.9	4898.4	4917.1	4912.0	4917.1	4908.6	4915.4	4908.6
25°	5083.1	5098.3	5094.9	5094.9	5105.1	5116.9	5118.6	5128.8	5127.1	5135.6	5130.5
27.5°	5320.2	5343.9	5350.7	5349.0	5355.8	5367.6	5371.0	5382.9	5376.1	5382.9	5379.5
30°	5604.8	5614.9	5628.5	5633.6	5642.0	5653.9	5653.9	5655.6	5647.1	5657.3	5662.3
32.5°	5899.5	5918.1	5931.7	5962.1	5977.4	5985.9	5984.2	5987.6	5979.1	5992.6	6002.8
35°	6289.1	6302.6	6324.6	6348.3	6368.7	6367.0	6361.9	6363.6	6363.6	6375.4	6385.6
37.5°	6758.2	6761.6	6790.4	6824.3	6834.5	6824.3	6793.8	6787.0	6771.8	6787.0	6804.0
40°	7254.5	7266.4	7324.0	7346.0	7351.1	7332.4	7288.4	7263.0	7229.1	7247.7	7271.5
42.5°	7774.5	7798.2	7850.7	7889.7	7906.6	7894.8	7833.8	7794.8	7750.8	7761.0	7784.7
45°	8350.4	8379.2	8453.7	8491.0	8523.2	8504.5	8445.2	8386.0	8316.5	8321.6	8358.9
47.5°	8994.0	9022.8	9119.4	9182.0	9199.0	9195.6	9129.5	9048.2	8953.4	8950.0	8982.2
50°	9715.6	9744.4	9864.6	9961.2	10010.3	10005.2	9927.3	9812.1	9697.0	9698.7	9739.3
52.5°	10420.2	10455.8	10581.1	10747.1	10843.7	10913.1	10865.7	10757.3	10616.7	10620.1	10657.3
55°	11080.8	11140.1	11284.0	11509.3	11688.9	11883.6	11939.5	11936.2	11851.5	11875.2	11912.4
57.5°	11400.9	11489.0	11710.9	12066.6	12432.4	12828.8	13164.2	13414.8	13521.5	13682.5	13645.2
60°	10794.5	10935.1	11262.0	11785.4	12508.7	13335.2	14221.1	15086.6	15825.1	16382.4	16062.2
62.5°	8838.2	9021.1	9417.5	10088.2	11182.4	12505.3	14200.8	16246.9	18475.9	19820.8	18860.4
65°	5530.2	5719.9	6123.1	6841.2	8121.7	9766.4	12066.6	15457.5	19622.6	21650.1	19695.4
67.5°	2156.2	2259.5	2478.0	2937.0	3899.1	5362.5	7671.2	11519.5	16500.9	18277.7	16194.3
70°	1080.6	1090.8	1131.5	1216.1	1422.8	1847.9	2811.7	5340.5	9463.2	11429.7	9122.8
72.5°	780.8	782.5	802.9	840.1	906.2	1001.0	1184.0	1634.5	3077.6	4703.7	2884.5
75°	597.9	604.7	616.5	636.9	672.4	719.9	785.9	941.7	1167.0	1353.3	1138.2
77.5°	460.7	474.3	482.7	501.4	523.4	555.6	574.2	633.5	736.8	775.8	763.9
80°	350.6	362.5	381.1	396.3	411.6	426.8	420.1	447.2	501.4	533.5	516.6
82.5°	223.6	237.1	291.3	304.9	311.7	321.8	310.0	311.7	335.4	355.7	335.4
85°	144.0	152.4	184.6	201.6	203.3	210.0	204.9	193.1	193.1	176.2	198.2
87.5°	66.1	67.8	83.0	98.2	101.6	91.5	89.8	86.4	69.4	66.1	71.1
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°	4092.2	4092.2	4092.2	4092.2	4092.2	4092.2	4092.2	4092.2
2.5°	4090.5	4093.9	4095.6	4100.7	4102.4	4102.4	4104.1	4107.4
5°	4122.7	4127.8	4129.5	4136.2	4137.9	4136.2	4139.6	4141.3
7.5°	4180.3	4188.7	4192.1	4198.9	4193.8	4200.6	4202.3	4202.3
10°	4265.0	4273.4	4275.1	4281.9	4278.5	4281.9	4281.9	4278.5
12.5°	4376.8	4378.5	4373.4	4378.5	4371.7	4375.1	4370.0	4366.6
15°	4500.4	4495.3	4483.5	4483.5	4473.3	4475.0	4473.3	4471.6
17.5°	4620.7	4610.5	4602.0	4598.6	4590.2	4588.5	4583.4	4583.4
20°	4752.8	4747.7	4742.6	4735.8	4727.4	4718.9	4717.2	4720.6
22.5°	4912.0	4910.3	4910.3	4906.9	4895.1	4886.6	4881.5	4881.5
25°	5125.4	5110.2	5110.2	5108.5	5103.4	5098.3	5088.2	5093.2
27.5°	5365.9	5357.5	5364.2	5362.5	5357.5	5357.5	5350.7	5350.7
30°	5662.3	5659.0	5669.1	5660.7	5643.7	5642.0	5635.2	5626.8
32.5°	6004.5	6001.1	6016.4	6006.2	5979.1	5963.8	5950.3	5943.5
35°	6385.6	6387.3	6405.9	6399.1	6368.7	6358.5	6334.8	6331.4
37.5°	6802.3	6829.4	6861.6	6868.3	6842.9	6836.1	6810.7	6797.2
40°	7291.8	7327.3	7376.5	7388.3	7361.2	7356.1	7320.6	7301.9
42.5°	7813.5	7874.4	7935.4	7945.6	7918.5	7891.4	7857.5	7844.0
45°	8396.1	8469.0	8548.6	8568.9	8528.2	8496.1	8452.0	8452.0
47.5°	9049.9	9141.4	9231.2	9287.1	9249.8	9215.9	9163.4	9129.5
50°	9822.3	9947.6	10064.5	10122.1	10062.8	9998.5	9907.0	9876.5
52.5°	10791.2	10926.7	11028.3	10997.8	10906.3	10816.6	10716.6	10676.0
55°	12027.6	12073.4	12073.4	11958.2	11775.2	11624.5	11467.0	11414.5
57.5°	13574.1	13397.9	13126.9	12783.1	12351.1	11975.1	11721.0	11600.8
60°	15391.5	14544.6	13587.6	12647.5	11875.2	11238.3	10860.6	10687.8
62.5°	16602.6	14387.1	12469.7	10960.5	9849.4	9082.1	8560.4	8357.2
65°	15516.8	11998.8	9431.0	7625.5	6414.4	5633.6	5116.9	4927.2
67.5°	11365.3	7518.7	5022.1	3599.3	2637.2	2103.7	1892.0	1803.9
70°	5101.7	2647.4	1622.7	1267.0	1092.5	1002.7	963.8	950.2
72.5°	1538.0	1112.8	938.4	846.9	777.5	733.4	701.2	697.8
75°	928.2	772.4	686.0	631.8	587.7	552.2	535.2	530.2
77.5°	648.7	567.4	526.8	487.8	453.9	426.8	411.6	399.7
80°	455.6	416.7	398.0	376.0	354.0	328.6	306.6	296.4
82.5°	304.9	296.4	296.4	282.9	264.2	240.5	196.5	186.3
85°	196.5	194.8	198.2	193.1	179.5	154.1	127.0	120.3
87.5°	91.5	93.2	103.3	101.6	98.2	81.3	64.4	61.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)