

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: P191645

Luminaire Tested: **GLEON-AF-07-LED-E1-5NQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191645
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-07-LED-E1-5NQ-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35088 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 295
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

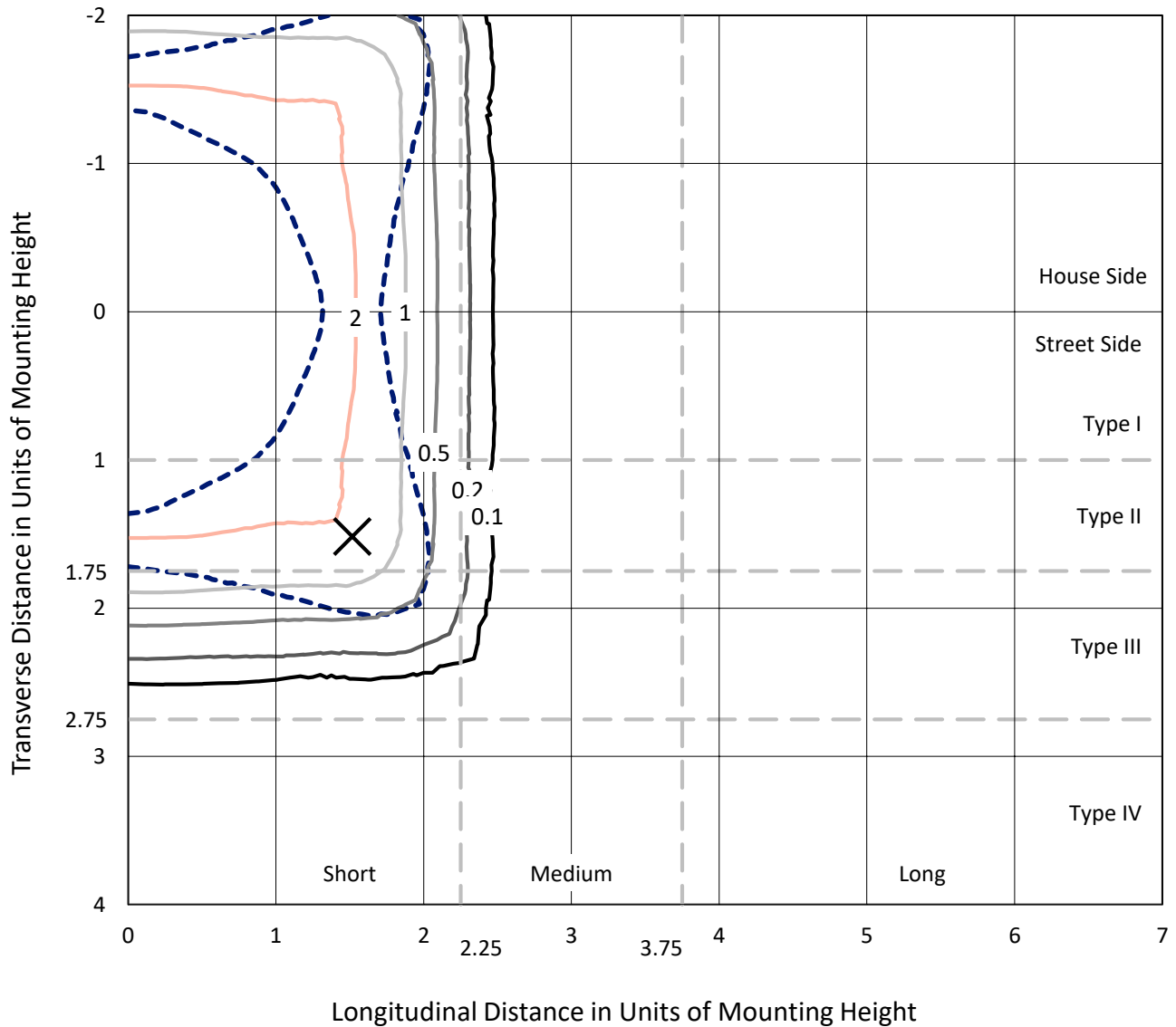


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

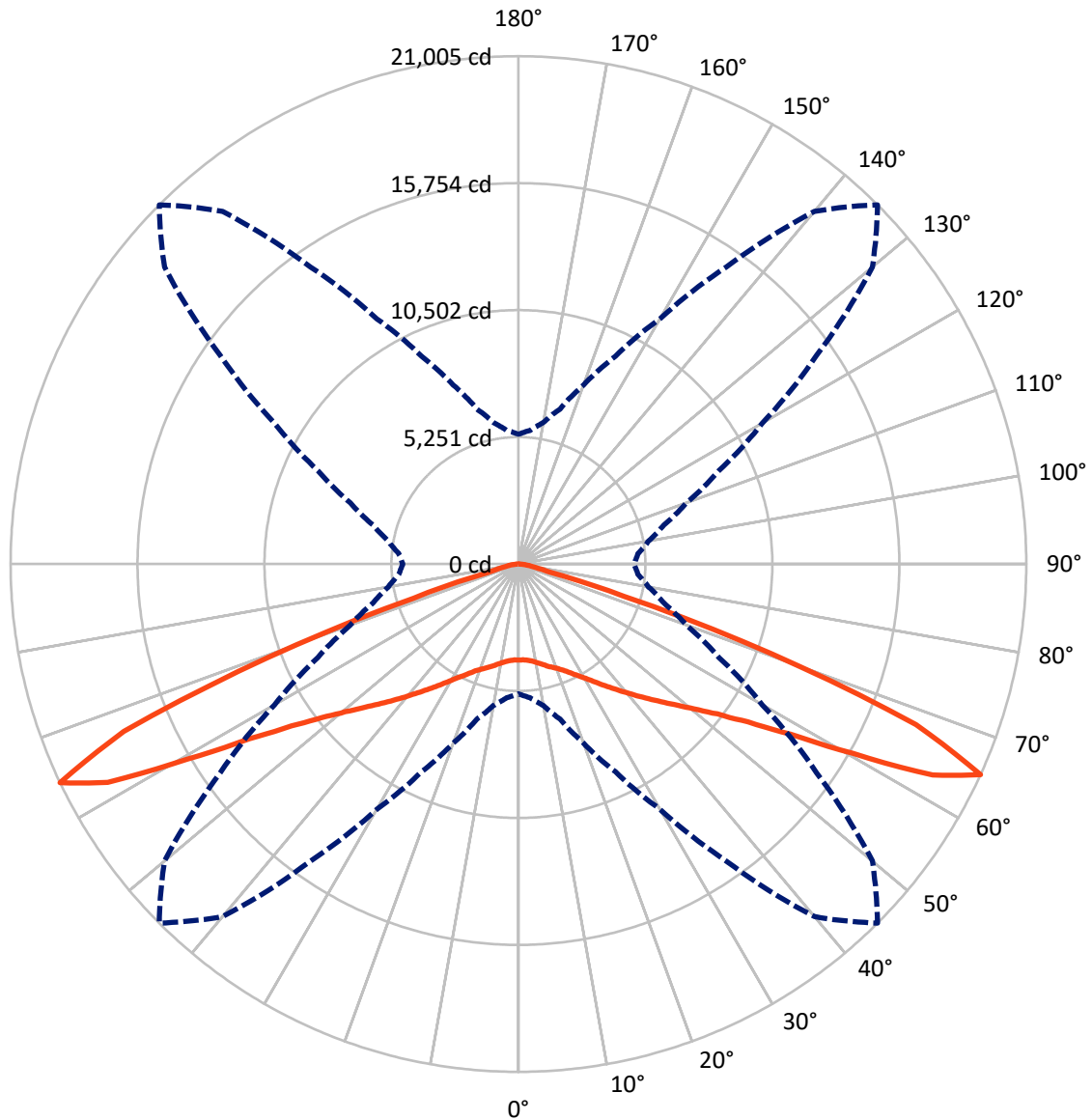


Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Full Cutoff

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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	17544.0	0.0	17544.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17544.0	0.0	17544.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35088.0	0.0	35088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.0	1.1
10°-20°	1241.1	3.5
20°-30°	2320.6	6.6
30°-40°	3924.8	11.2
40°-50°	6417.4	18.3
50°-60°	10204.7	29.1
60°-70°	9224.3	26.3
70°-80°	1167.4	3.3
80°-90°	200.8	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°	35088.0	100.0
0°-180°	35088.0	100.0

Coefficient of Utilization



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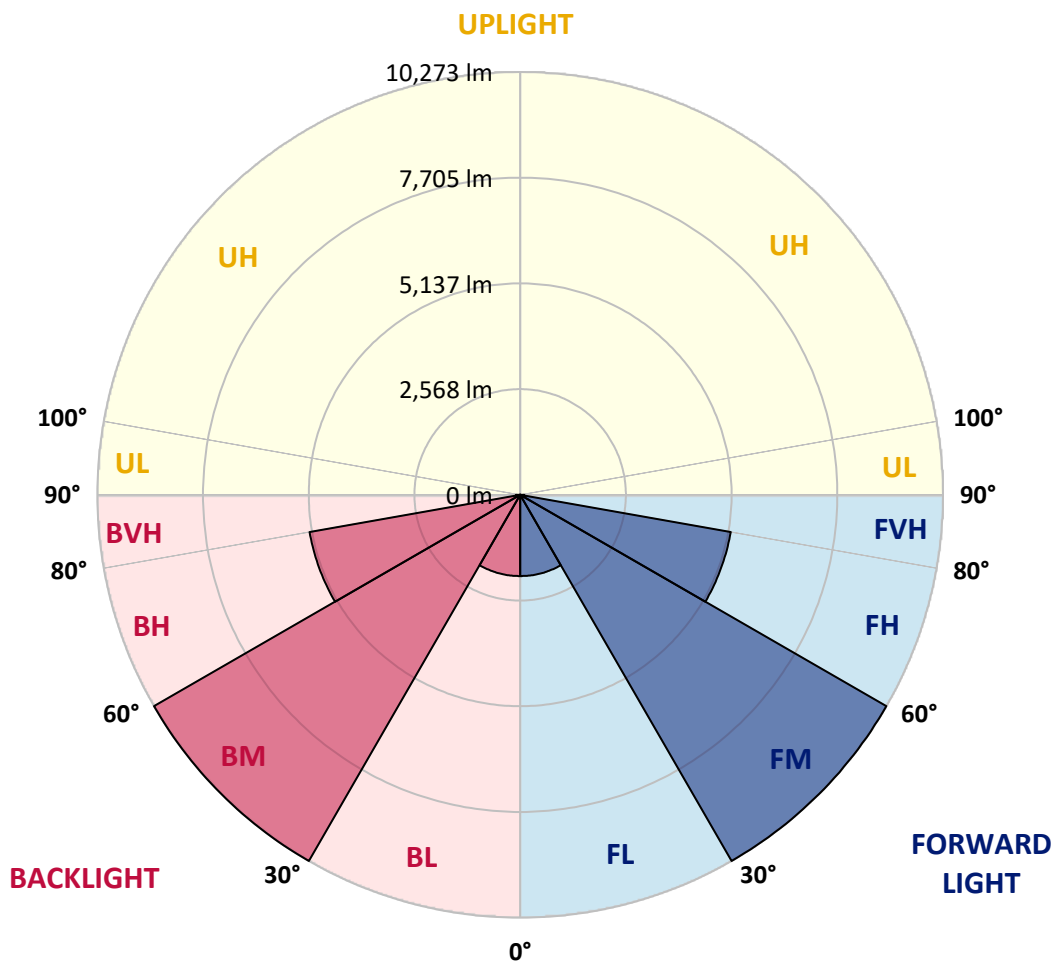
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1974.3	5.6			
FM (30°-60°)	10273.4	29.3			
FH (60°-80°)	5195.9	14.8			G3/7500
FVH (80°-90°)	100.4	0.3			G2/225
BL (0°-30°)	1974.3	5.6	B3/2500		
BM (30°-60°)	10273.4	29.3	B5		
BH (60°-80°)	5195.9	14.8	B5		G3/7500
BVH (80°-90°)	100.4	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°	3970.2	3970.2	3970.2	3970.2	3970.2	3970.2	3970.2	3970.2	3970.2	3970.2	3970.2
2.5°	3973.5	3976.8	3980.1	3976.8	3980.1	3975.2	3971.9	3976.8	3971.9	3966.9	3970.2
5°	4008.0	4009.7	4009.7	4004.7	4009.7	4006.4	4001.4	4008.0	4003.1	3998.2	4001.4
7.5°	4065.5	4072.1	4067.2	4062.3	4065.5	4062.3	4059.0	4060.6	4059.0	4054.0	4055.7
10°	4142.8	4147.7	4144.4	4142.8	4146.1	4144.4	4141.1	4139.5	4141.1	4136.2	4136.2
12.5°	4236.4	4234.8	4233.2	4234.8	4239.7	4239.7	4238.1	4239.7	4243.0	4244.7	4241.4
15°	4328.5	4331.8	4331.8	4331.8	4341.6	4349.8	4354.8	4358.0	4364.6	4366.3	4359.7
17.5°	4443.5	4443.5	4441.9	4443.5	4453.4	4466.5	4471.4	4478.0	4484.6	4489.5	4481.3
20°	4571.7	4575.0	4575.0	4578.2	4591.4	4606.2	4606.2	4609.5	4606.2	4609.5	4604.5
22.5°	4727.8	4737.6	4737.6	4739.3	4752.4	4770.5	4765.6	4770.5	4762.3	4768.9	4762.3
25°	4931.6	4946.3	4943.1	4943.1	4952.9	4964.4	4966.1	4975.9	4974.3	4982.5	4977.6
27.5°	5161.6	5184.6	5191.2	5189.6	5196.1	5207.6	5210.9	5222.4	5215.9	5222.4	5219.1
30°	5437.7	5447.6	5460.7	5465.6	5473.9	5485.4	5485.4	5487.0	5478.8	5488.6	5493.6
32.5°	5723.6	5741.7	5754.9	5784.4	5799.2	5807.4	5805.8	5809.1	5800.9	5814.0	5823.9
35°	6101.6	6114.7	6136.1	6159.1	6178.8	6177.2	6172.3	6173.9	6173.9	6185.4	6195.3
37.5°	6556.8	6560.1	6588.0	6620.9	6630.7	6620.9	6591.3	6584.7	6569.9	6584.7	6601.2
40°	7038.3	7049.8	7105.7	7127.0	7131.9	7113.9	7071.1	7046.5	7013.6	7031.7	7054.7
42.5°	7542.8	7565.8	7616.7	7654.5	7670.9	7659.4	7600.3	7562.5	7519.8	7529.6	7552.6
45°	8101.5	8129.4	8201.7	8237.9	8269.1	8251.0	8193.5	8136.0	8068.6	8073.6	8109.7
47.5°	8726.0	8753.9	8847.6	8908.4	8924.8	8921.5	8857.4	8778.5	8686.5	8683.2	8714.4
50°	9426.0	9453.9	9570.6	9664.3	9711.9	9707.0	9631.4	9519.7	9407.9	9409.6	9449.0
52.5°	10109.6	10144.1	10265.7	10426.8	10520.4	10587.8	10541.8	10436.6	10300.2	10303.5	10339.7
55°	10750.5	10808.0	10947.7	11166.3	11340.5	11529.4	11583.7	11580.4	11498.2	11521.2	11557.4
57.5°	11061.1	11146.5	11361.8	11706.9	12061.9	12446.4	12771.8	13015.0	13118.5	13274.6	13238.5
60°	10472.8	10609.2	10926.3	11434.1	12135.8	12937.7	13797.2	14636.9	15353.4	15894.1	15583.5
62.5°	8574.8	8752.2	9136.8	9787.5	10849.1	12132.5	13777.5	15762.6	17925.2	19230.0	18298.2
65°	5365.4	5549.4	5940.5	6637.3	7879.6	9475.3	11706.9	14996.8	19037.7	21004.7	19108.4
67.5°	2091.9	2192.2	2404.2	2849.5	3782.9	5202.7	7442.5	11176.1	16009.1	17732.9	15711.6
70°	1048.4	1058.3	1097.7	1179.9	1380.4	1792.8	2727.9	5181.3	9181.1	11089.0	8850.8
72.5°	757.6	759.2	778.9	815.1	879.2	971.2	1148.7	1585.8	2985.9	4563.5	2798.5
75°	580.1	586.7	598.2	617.9	652.4	698.4	762.5	913.7	1132.2	1313.0	1104.3
77.5°	447.0	460.1	468.3	486.4	507.8	539.0	557.1	614.6	714.8	752.6	741.1
80°	340.2	351.7	369.7	384.5	399.3	414.1	407.5	433.8	486.4	517.6	501.2
82.5°	216.9	230.1	282.6	295.8	302.4	312.2	300.7	302.4	325.4	345.1	325.4
85°	139.7	147.9	179.1	195.6	197.2	203.8	198.8	187.3	187.3	170.9	192.3
87.5°	64.1	65.7	80.5	95.3	98.6	88.7	87.1	83.8	67.4	64.1	69.0
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°	3970.2	3970.2	3970.2	3970.2	3970.2	3970.2	3970.2	3970.2
2.5°	3968.6	3971.9	3973.5	3978.4	3980.1	3980.1	3981.7	3985.0
5°	3999.8	4004.7	4006.4	4013.0	4014.6	4013.0	4016.2	4017.9
7.5°	4055.7	4063.9	4067.2	4073.8	4068.8	4075.4	4077.0	4077.0
10°	4137.8	4146.1	4147.7	4154.3	4151.0	4154.3	4154.3	4151.0
12.5°	4246.3	4247.9	4243.0	4247.9	4241.4	4244.7	4239.7	4236.4
15°	4366.3	4361.3	4349.8	4349.8	4340.0	4341.6	4340.0	4338.3
17.5°	4482.9	4473.1	4464.9	4461.6	4453.4	4451.7	4446.8	4446.8
20°	4611.1	4606.2	4601.3	4594.7	4586.5	4578.2	4576.6	4579.9
22.5°	4765.6	4763.9	4763.9	4760.7	4749.2	4740.9	4736.0	4736.0
25°	4972.6	4957.9	4957.9	4956.2	4951.3	4946.3	4936.5	4941.4
27.5°	5206.0	5197.8	5204.3	5202.7	5197.8	5197.8	5191.2	5191.2
30°	5493.6	5490.3	5500.1	5491.9	5475.5	5473.9	5467.3	5459.1
32.5°	5825.5	5822.2	5837.0	5827.2	5800.9	5786.1	5772.9	5766.4
35°	6195.3	6196.9	6215.0	6208.4	6178.8	6169.0	6146.0	6142.7
37.5°	6599.5	6625.8	6657.0	6663.6	6639.0	6632.4	6607.7	6594.6
40°	7074.4	7108.9	7156.6	7168.1	7141.8	7136.9	7102.4	7084.3
42.5°	7580.6	7639.7	7698.9	7708.7	7682.5	7656.2	7623.3	7610.1
45°	8145.9	8216.5	8293.8	8313.5	8274.0	8242.8	8200.1	8200.1
47.5°	8780.2	8868.9	8956.0	9010.2	8974.1	8941.2	8890.3	8857.4
50°	9529.5	9651.1	9764.5	9820.4	9762.9	9700.4	9611.7	9582.1
52.5°	10469.5	10601.0	10699.6	10670.0	10581.2	10494.1	10397.2	10357.8
55°	11669.1	11713.5	11713.5	11601.7	11424.3	11278.0	11125.2	11074.2
57.5°	13169.5	12998.5	12735.6	12402.0	11983.0	11618.2	11371.7	11255.0
60°	14932.7	14111.1	13182.6	12270.6	11521.2	10903.3	10536.9	10369.3
62.5°	16107.7	13958.2	12098.0	10633.8	9555.8	8811.4	8305.3	8108.1
65°	15054.3	11641.2	9149.9	7398.2	6223.2	5465.6	4964.4	4780.4
67.5°	11026.6	7294.6	4872.4	3492.0	2558.6	2041.0	1835.6	1750.1
70°	4949.6	2568.5	1574.3	1229.2	1059.9	972.8	935.0	921.9
72.5°	1492.1	1079.7	910.4	821.7	754.3	711.6	680.3	677.0
75°	900.5	749.3	665.5	613.0	570.2	535.7	519.3	514.4
77.5°	629.4	550.5	511.1	473.3	440.4	414.1	399.3	387.8
80°	442.0	404.3	386.2	364.8	343.5	318.8	297.4	287.6
82.5°	295.8	287.6	287.6	274.4	256.4	233.3	190.6	180.8
85°	190.6	189.0	192.3	187.3	174.2	149.5	123.2	116.7
87.5°	88.7	90.4	100.2	98.6	95.3	78.9	62.4	59.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)