

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: P190863

Luminaire Tested: **GLEON-AF-05-LED-E1-5NQ-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190863
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-05-LED-E1-5NQ-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 34436.6 lumens
Efficiency: N/A
Efficacy: 107.6 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

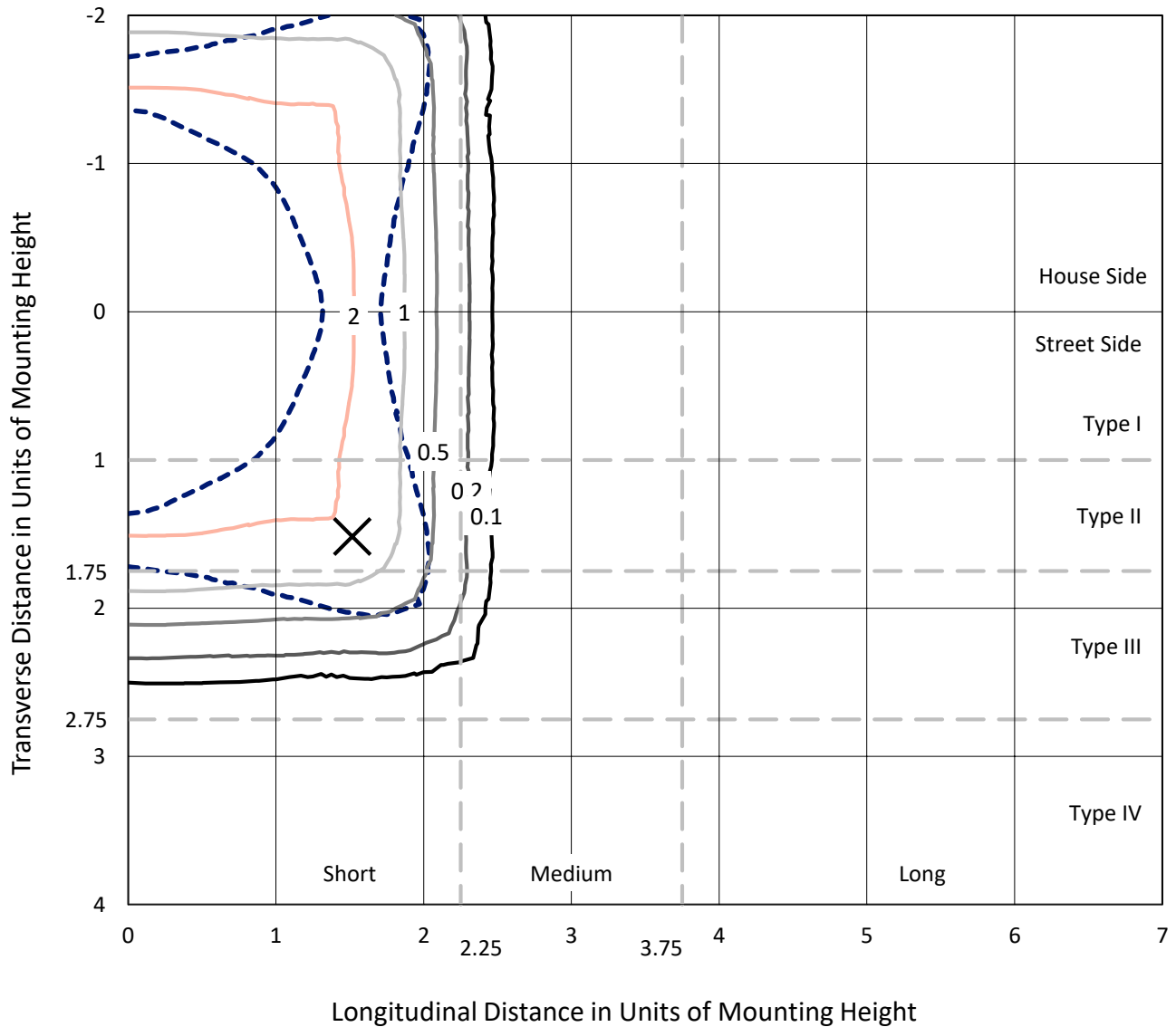
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

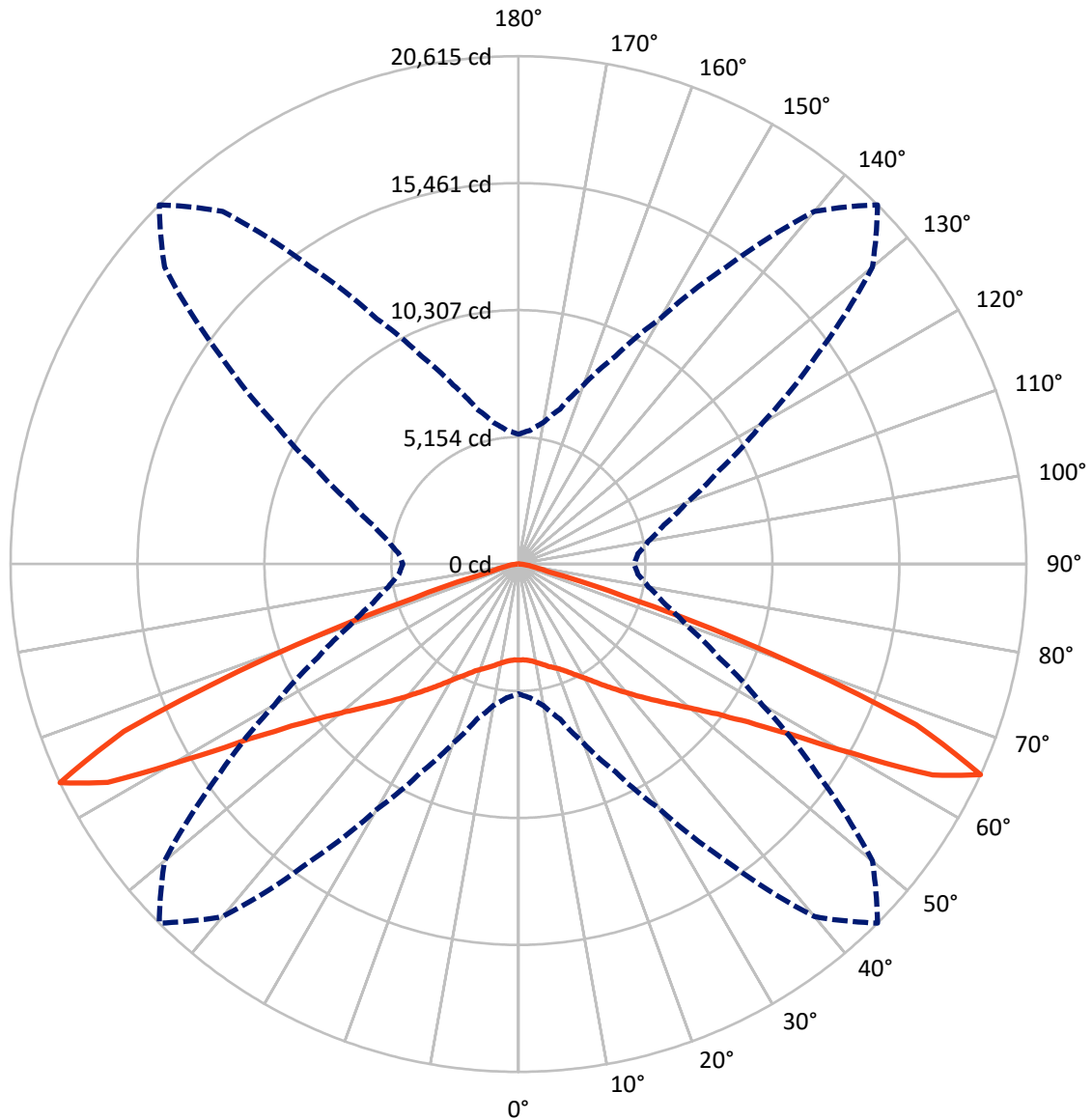
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 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	17218.3	0.0	17218.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17218.3	0.0	17218.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	34436.6	0.0	34436.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.8	1.1
10°-20°	1218.0	3.5
20°-30°	2277.5	6.6
30°-40°	3851.9	11.2
40°-50°	6298.3	18.3
50°-60°	10015.2	29.1
60°-70°	9053.1	26.3
70°-80°	1145.7	3.3
80°-90°	197.1	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°	34436.6	100.0
0°-180°	34436.6	100.0



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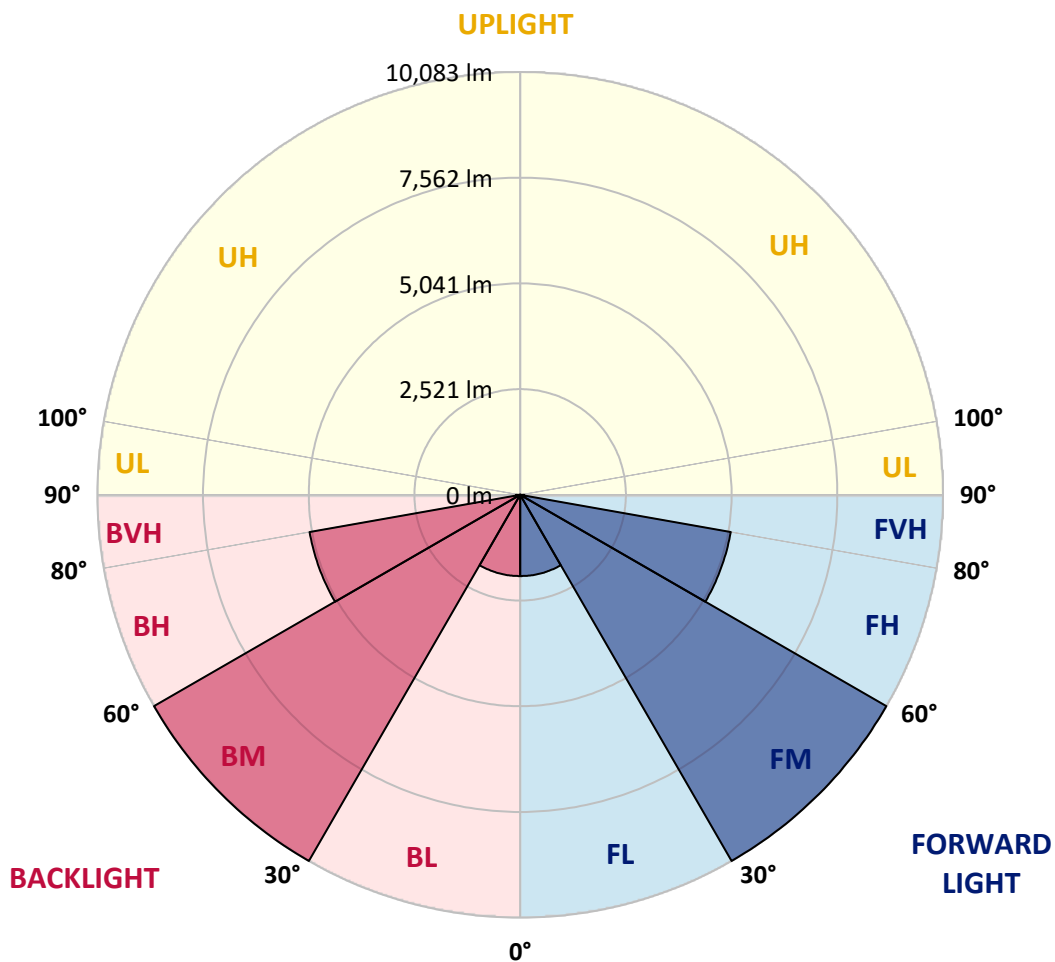
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1937.7	5.6			
FM	(30°-60°)	10082.7	29.3			
FH	(60°-80°)	5099.4	14.8			G3/7500
FVH	(80°-90°)	98.5	0.3			G1/100
BL	(0°-30°)	1937.7	5.6	B3/2500		
BM	(30°-60°)	10082.7	29.3	B5		
BH	(60°-80°)	5099.4	14.8	B5		G3/7500
BVH	(80°-90°)	98.5	0.3			G1/100
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°	3896.5	3896.5	3896.5	3896.5	3896.5	3896.5	3896.5	3896.5	3896.5	3896.5	3896.5
2.5°	3899.8	3903.0	3906.2	3903.0	3906.2	3901.3	3898.2	3903.0	3898.2	3893.2	3896.5
5°	3933.7	3935.2	3935.2	3930.4	3935.2	3932.0	3927.2	3933.7	3928.7	3923.9	3927.2
7.5°	3990.0	3996.5	3991.7	3986.8	3990.0	3986.8	3983.6	3985.2	3983.6	3978.8	3980.4
10°	4065.8	4070.7	4067.5	4065.8	4069.1	4067.5	4064.3	4062.6	4064.3	4059.4	4059.4
12.5°	4157.8	4156.1	4154.6	4156.1	4161.1	4161.1	4159.4	4161.1	4164.2	4165.9	4162.6
15°	4248.1	4251.4	4251.4	4251.4	4261.0	4269.1	4273.9	4277.2	4283.6	4285.2	4278.8
17.5°	4361.0	4361.0	4359.4	4361.0	4370.7	4383.5	4388.5	4394.9	4401.3	4406.2	4398.1
20°	4486.8	4490.0	4490.0	4493.2	4506.2	4520.6	4520.6	4523.9	4520.6	4523.9	4519.1
22.5°	4640.0	4649.7	4649.7	4651.4	4664.2	4681.9	4677.1	4681.9	4673.9	4680.3	4673.9
25°	4840.0	4854.5	4851.3	4851.3	4861.0	4872.3	4873.8	4883.6	4881.9	4890.0	4885.2
27.5°	5065.8	5088.4	5094.8	5093.2	5099.7	5111.0	5114.1	5125.5	5119.1	5125.5	5122.2
30°	5336.7	5346.5	5359.3	5364.1	5372.2	5383.5	5383.5	5385.1	5377.0	5386.8	5391.6
32.5°	5617.3	5635.1	5648.0	5677.1	5691.6	5699.7	5698.0	5701.2	5693.1	5706.1	5715.7
35°	5988.4	6001.2	6022.2	6044.7	6064.2	6062.5	6057.7	6059.2	6059.2	6070.6	6080.2
37.5°	6435.1	6438.2	6465.7	6498.0	6507.6	6498.0	6468.9	6462.5	6448.0	6462.5	6478.7
40°	6907.6	6918.9	6973.8	6994.7	6999.5	6981.8	6939.9	6915.7	6883.4	6901.1	6923.7
42.5°	7402.8	7425.3	7475.3	7512.4	7528.5	7517.3	7459.2	7422.1	7380.2	7389.8	7412.4
45°	7951.1	7978.5	8049.5	8085.0	8115.6	8097.9	8041.4	7984.9	7918.9	7923.7	7959.2
47.5°	8563.9	8591.4	8683.3	8743.0	8759.1	8755.8	8692.9	8615.6	8525.3	8522.0	8552.7
50°	9251.1	9278.5	9392.9	9484.9	9531.7	9526.8	9452.6	9342.9	9233.3	9234.9	9273.6
52.5°	9921.9	9955.8	10075.1	10233.2	10325.2	10391.2	10346.1	10242.9	10109.0	10112.3	10147.8
55°	10550.9	10607.4	10744.5	10959.0	11129.9	11315.4	11368.7	11365.4	11284.8	11307.3	11342.8
57.5°	10855.8	10939.6	11150.9	11489.6	11837.9	12215.4	12534.6	12773.4	12875.0	13028.2	12992.7
60°	10278.4	10412.2	10723.5	11221.9	11910.5	12697.6	13541.1	14365.2	15068.4	15599.0	15294.1
62.5°	8415.6	8589.7	8967.2	9605.8	10647.7	11907.2	13521.7	15470.0	17592.4	18872.9	17958.5
65°	5265.7	5446.4	5830.3	6514.0	7733.4	9299.4	11489.6	14718.4	18684.3	20614.8	18753.7
67.5°	2053.1	2151.5	2359.5	2796.5	3712.7	5106.2	7304.4	10968.7	15711.9	17403.7	15420.0
70°	1029.0	1038.6	1077.4	1158.0	1354.8	1759.6	2677.3	5085.2	9010.7	10883.2	8686.5
72.5°	743.5	745.1	764.5	799.9	862.9	953.2	1127.4	1556.3	2930.4	4478.8	2746.6
75°	569.3	575.8	587.1	606.4	640.3	685.5	748.3	896.7	1111.2	1288.6	1083.8
77.5°	438.6	451.6	459.6	477.4	498.4	529.0	546.8	603.2	701.5	738.7	727.4
80°	333.9	345.1	362.8	377.4	391.9	406.4	400.0	425.8	477.4	508.0	491.9
82.5°	212.9	225.8	277.4	290.3	296.8	306.5	295.1	296.8	319.4	338.7	319.4
85°	137.1	145.2	175.8	191.9	193.5	200.0	195.2	183.8	183.8	167.8	188.7
87.5°	62.9	64.5	79.1	93.5	96.8	87.1	85.5	82.2	66.1	62.9	67.7
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°	3896.5	3896.5	3896.5	3896.5	3896.5	3896.5	3896.5	3896.5
2.5°	3894.9	3898.2	3899.8	3904.6	3906.2	3906.2	3907.8	3911.0
5°	3925.6	3930.4	3932.0	3938.5	3940.1	3938.5	3941.6	3943.3
7.5°	3980.4	3988.5	3991.7	3998.1	3993.3	3999.7	4001.4	4001.4
10°	4061.0	4069.1	4070.7	4077.2	4073.9	4077.2	4077.2	4073.9
12.5°	4167.5	4169.0	4164.2	4169.0	4162.6	4165.9	4161.1	4157.8
15°	4285.2	4280.3	4269.1	4269.1	4259.4	4261.0	4259.4	4257.8
17.5°	4399.7	4390.0	4382.0	4378.7	4370.7	4369.0	4364.2	4364.2
20°	4525.5	4520.6	4515.8	4509.4	4501.3	4493.2	4491.7	4494.8
22.5°	4677.1	4675.5	4675.5	4672.3	4661.0	4652.9	4648.1	4648.1
25°	4880.3	4865.8	4865.8	4864.2	4859.3	4854.5	4844.8	4849.7
27.5°	5109.3	5101.3	5107.7	5106.2	5101.3	5101.3	5094.8	5094.8
30°	5391.6	5388.4	5398.0	5389.9	5373.9	5372.2	5365.8	5357.7
32.5°	5717.4	5714.1	5728.6	5719.0	5693.1	5678.7	5665.7	5659.3
35°	6080.2	6081.9	6099.7	6093.1	6064.2	6054.4	6031.8	6028.7
37.5°	6477.0	6502.8	6533.5	6539.9	6515.7	6509.2	6485.1	6472.2
40°	6943.1	6976.9	7023.8	7035.0	7009.3	7004.3	6970.5	6952.8
42.5°	7439.8	7497.9	7555.9	7565.6	7539.9	7514.0	7481.8	7468.9
45°	7994.7	8064.0	8139.8	8159.2	8120.5	8089.8	8047.9	8047.9
47.5°	8617.1	8704.3	8789.7	8843.0	8807.5	8775.3	8725.3	8692.9
50°	9352.6	9472.0	9583.2	9638.0	9581.7	9520.4	9433.2	9404.2
52.5°	10275.1	10404.1	10500.9	10471.9	10384.8	10299.4	10204.1	10165.5
55°	11452.4	11496.0	11496.0	11386.4	11212.2	11068.6	10918.7	10868.6
57.5°	12925.0	12757.2	12499.2	12171.8	11760.6	11402.5	11160.6	11046.0
60°	14655.5	13849.1	12937.9	12042.8	11307.3	10700.9	10341.2	10176.7
62.5°	15808.7	13699.2	11873.4	10436.5	9378.4	8647.8	8151.1	7957.5
65°	14774.9	11425.0	8980.1	7260.8	6107.6	5364.1	4872.3	4691.7
67.5°	10821.9	7159.2	4782.0	3427.2	2511.1	2003.1	1801.5	1717.6
70°	4857.8	2520.8	1545.1	1206.4	1040.2	954.8	917.7	904.8
72.5°	1464.5	1059.6	893.4	806.4	740.3	698.4	667.7	664.5
75°	883.8	735.4	653.2	601.6	559.7	525.8	509.6	504.8
77.5°	617.7	540.3	501.6	464.5	432.2	406.4	391.9	380.6
80°	433.8	396.7	379.0	358.0	337.1	312.9	292.0	282.2
82.5°	290.3	282.2	282.2	269.3	251.6	229.0	187.1	177.4
85°	187.1	185.5	188.7	183.8	170.9	146.8	120.9	114.5
87.5°	87.1	88.7	98.4	96.8	93.5	77.4	61.3	58.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)