

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: P269686

Luminaire Tested: **GLEON-AF-10-LED-E1-5NQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269686
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-10-LED-E1-5NQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 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: 34788.6 lumens
Efficiency: N/A
Efficacy: 107.7 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): 323
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

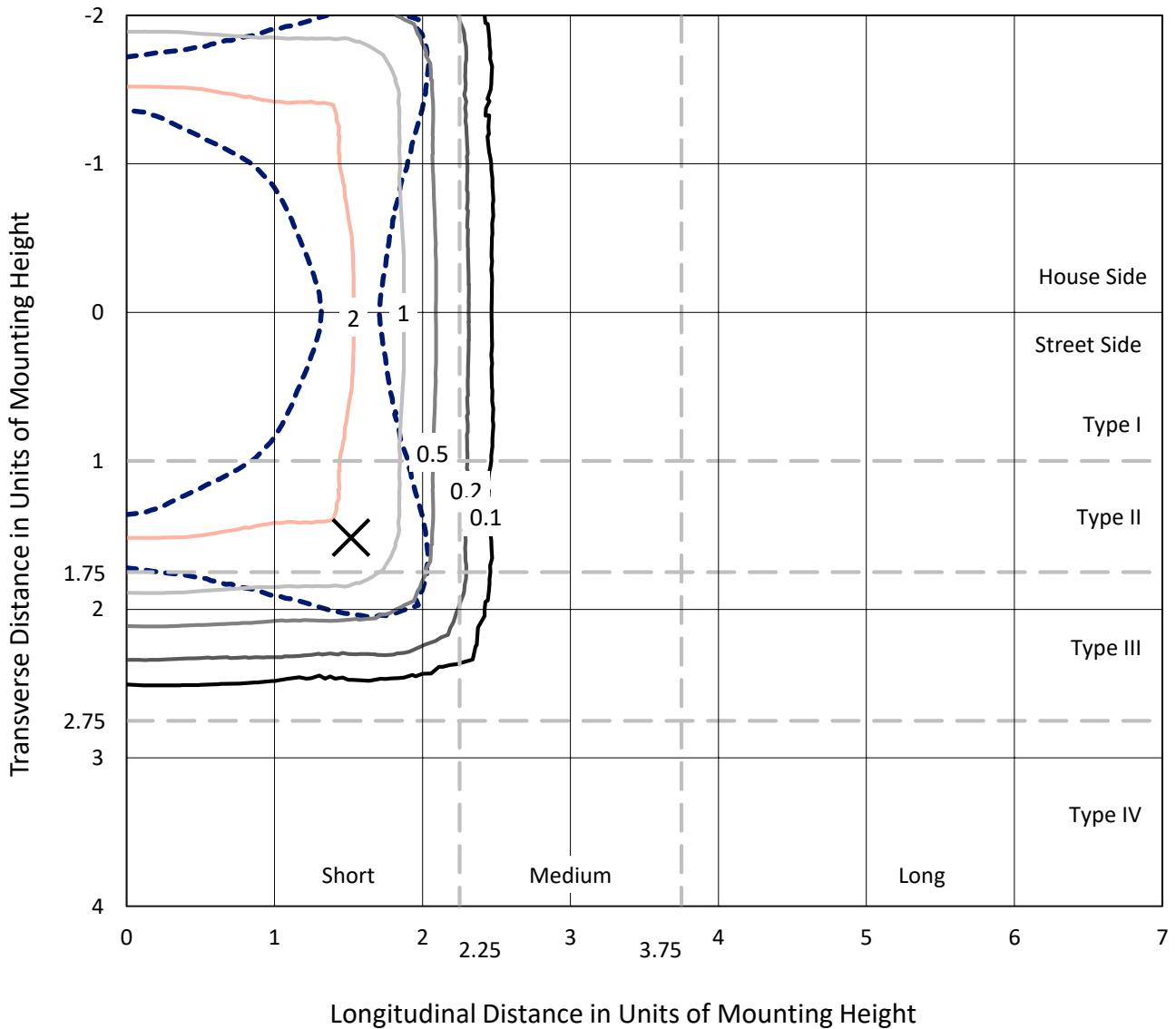


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

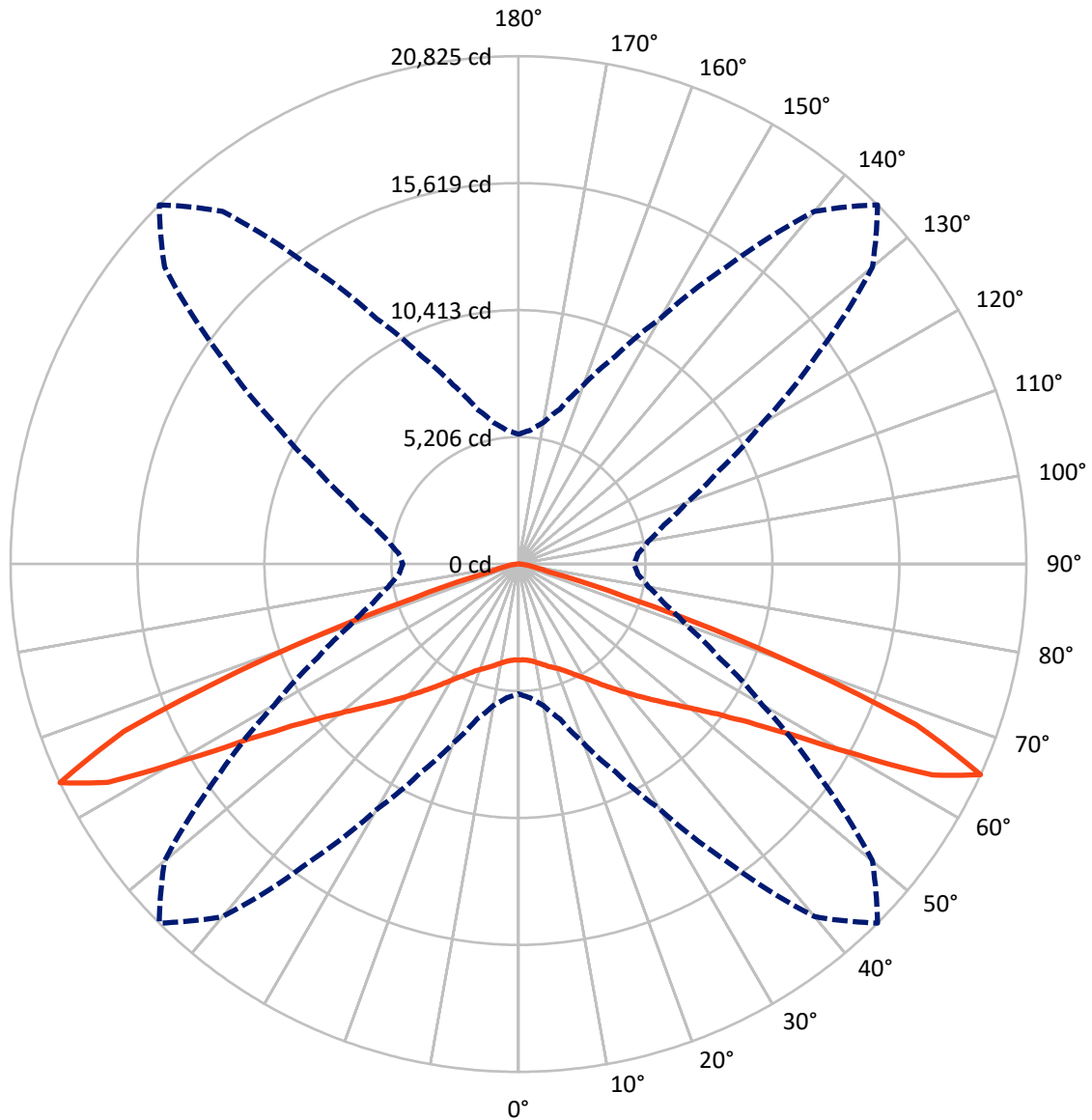


Based on 30 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - Full Cutoff

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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	17394.3	0.0	17394.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17394.3	0.0	17394.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	34788.6	0.0	34788.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.7	1.1
10°-20°	1230.5	3.5
20°-30°	2300.8	6.6
30°-40°	3891.3	11.2
40°-50°	6362.6	18.3
50°-60°	10117.6	29.1
60°-70°	9145.6	26.3
70°-80°	1157.4	3.3
80°-90°	199.1	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°	34788.6	100.0
0°-180°	34788.6	100.0



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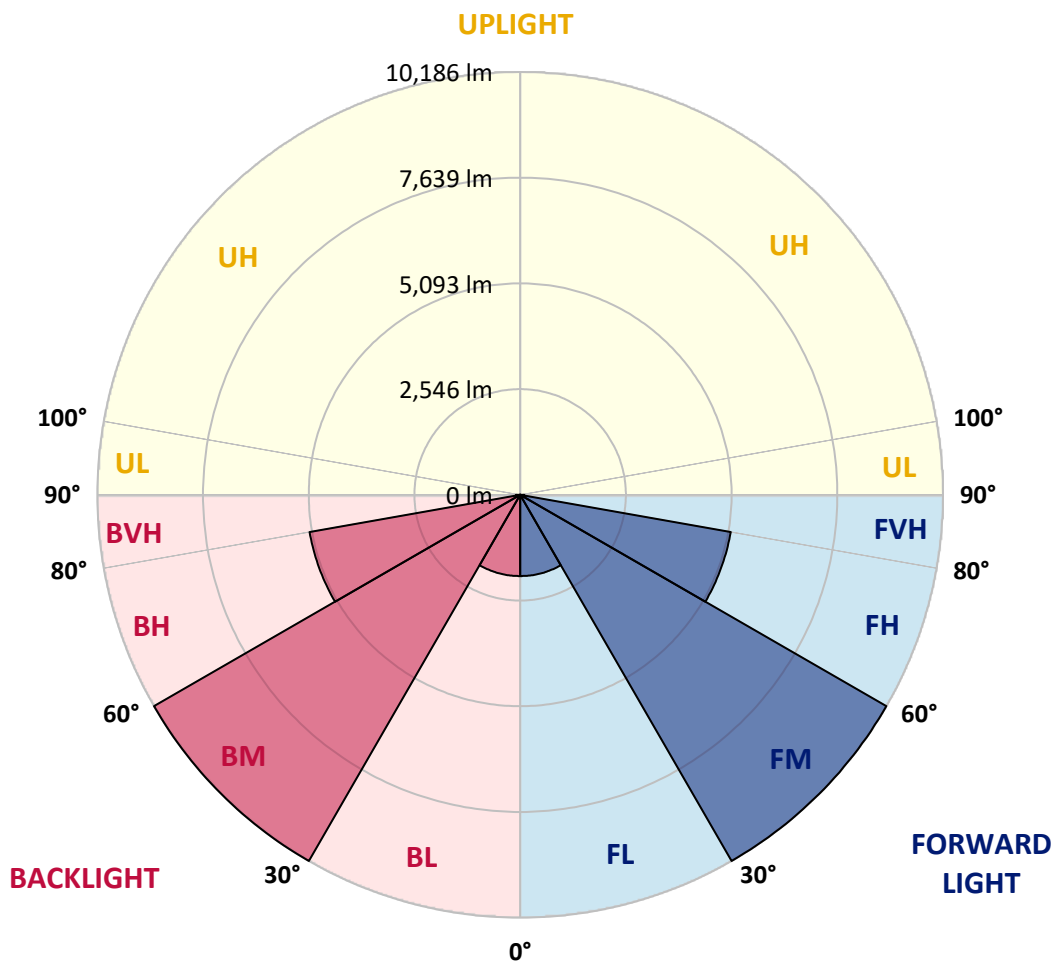
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1957.5	5.6			
FM (30°-60°)	10185.7	29.3			
FH (60°-80°)	5151.5	14.8			G3/7500
FVH (80°-90°)	99.5	0.3			G1/100
BL (0°-30°)	1957.5	5.6	B3/2500		
BM (30°-60°)	10185.7	29.3	B5		
BH (60°-80°)	5151.5	14.8	B5		G3/7500
BVH (80°-90°)	99.5	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°	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4
2.5°	3939.5	3942.9	3946.2	3942.9	3946.2	3941.3	3938.0	3942.9	3938.0	3933.0	3936.4
5°	3973.8	3975.4	3975.4	3970.6	3975.4	3972.1	3967.4	3973.8	3968.9	3964.0	3967.4
7.5°	4030.9	4037.3	4032.5	4027.6	4030.9	4027.6	4024.3	4025.9	4024.3	4019.5	4021.1
10°	4107.4	4112.4	4109.0	4107.4	4110.6	4109.0	4105.9	4104.1	4105.9	4100.9	4100.9
12.5°	4200.3	4198.7	4197.1	4198.7	4203.6	4203.6	4201.9	4203.6	4206.9	4208.4	4205.1
15°	4291.6	4294.7	4294.7	4294.7	4304.6	4312.8	4317.7	4320.8	4327.3	4329.0	4322.5
17.5°	4405.6	4405.6	4403.9	4405.6	4415.3	4428.4	4433.2	4439.9	4446.3	4451.2	4443.0
20°	4532.7	4535.9	4535.9	4539.1	4552.3	4567.0	4567.0	4570.1	4567.0	4570.1	4565.2
22.5°	4687.4	4697.2	4697.2	4698.9	4711.9	4729.8	4724.9	4729.8	4721.8	4728.1	4721.8
25°	4889.5	4904.1	4901.0	4901.0	4910.7	4922.1	4923.7	4933.5	4931.9	4940.0	4935.1
27.5°	5117.6	5140.5	5146.8	5145.3	5151.8	5163.2	5166.4	5177.9	5171.4	5177.9	5174.5
30°	5391.3	5401.1	5414.2	5418.9	5427.1	5438.6	5438.6	5440.1	5432.1	5441.8	5446.8
32.5°	5674.9	5692.6	5705.8	5735.0	5749.7	5757.9	5756.2	5759.6	5751.4	5764.5	5774.1
35°	6049.5	6062.7	6083.7	6106.6	6126.1	6124.5	6119.7	6121.2	6121.2	6132.5	6142.4
37.5°	6500.9	6504.1	6531.8	6564.4	6574.2	6564.4	6535.1	6528.5	6513.9	6528.5	6544.8
40°	6978.3	6989.6	7045.0	7066.2	7071.1	7053.1	7010.8	6986.4	6953.8	6971.7	6994.6
42.5°	7478.4	7501.2	7551.7	7589.2	7605.5	7594.1	7535.4	7498.0	7455.7	7465.4	7488.2
45°	8032.4	8060.0	8131.7	8167.6	8198.6	8180.7	8123.6	8066.6	7999.8	8004.6	8040.5
47.5°	8651.4	8679.2	8772.0	8832.3	8848.7	8845.4	8781.8	8703.7	8612.4	8609.1	8640.1
50°	9345.5	9373.3	9488.9	9581.9	9629.0	9624.3	9549.3	9438.4	9327.6	9329.3	9368.3
52.5°	10023.4	10057.6	10178.2	10337.9	10430.7	10497.5	10451.9	10347.5	10212.3	10215.6	10251.5
55°	10658.7	10715.8	10854.3	11071.0	11243.6	11431.0	11484.8	11481.5	11400.1	11422.8	11458.8
57.5°	10966.7	11051.5	11264.8	11607.0	11959.0	12340.1	12662.8	12904.0	13006.6	13161.3	13125.6
60°	10383.4	10518.7	10833.1	11336.6	12032.3	12827.3	13679.5	14511.9	15222.4	15758.4	15450.5
62.5°	8501.6	8677.5	9058.8	9704.0	10756.6	12029.1	13659.9	15628.2	17772.2	19065.8	18142.1
65°	5319.7	5502.1	5889.8	6580.7	7812.4	9394.5	11607.0	14868.8	18875.2	20825.4	18945.3
67.5°	2074.0	2173.4	2383.7	2825.2	3750.7	5158.2	7379.0	11080.8	15872.5	17581.5	15577.6
70°	1039.5	1049.3	1088.3	1169.9	1368.6	1777.6	2704.5	5137.1	9102.9	10994.4	8775.4
72.5°	751.2	752.7	772.4	808.1	871.6	963.0	1139.0	1572.3	2960.5	4524.6	2774.7
75°	575.2	581.7	593.1	612.6	646.8	692.5	756.1	905.9	1122.6	1301.9	1094.9
77.5°	443.1	456.2	464.3	482.3	503.4	534.4	552.3	609.3	708.8	746.2	734.9
80°	337.3	348.6	366.6	381.2	396.0	410.5	404.1	430.1	482.3	513.2	496.9
82.5°	215.1	228.1	280.2	293.2	299.8	309.6	298.1	299.8	322.6	342.2	322.6
85°	138.5	146.7	177.5	193.9	195.6	201.9	197.2	185.7	185.7	169.4	190.6
87.5°	63.5	65.1	79.8	94.5	97.7	87.9	86.3	83.2	66.8	63.5	68.5
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°	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4
2.5°	3934.8	3938.0	3939.5	3944.5	3946.2	3946.2	3947.7	3951.0
5°	3965.7	3970.6	3972.1	3978.8	3980.3	3978.8	3981.9	3983.7
7.5°	4021.1	4029.2	4032.5	4039.0	4034.1	4040.7	4042.3	4042.3
10°	4102.5	4110.6	4112.4	4118.8	4115.6	4118.8	4118.8	4115.6
12.5°	4210.0	4211.8	4206.9	4211.8	4205.1	4208.4	4203.6	4200.3
15°	4329.0	4324.1	4312.8	4312.8	4302.9	4304.6	4302.9	4301.4
17.5°	4444.6	4434.9	4426.8	4423.6	4415.3	4413.7	4408.8	4408.8
20°	4571.7	4567.0	4562.0	4555.5	4547.3	4539.1	4537.6	4540.8
22.5°	4724.9	4723.3	4723.3	4720.1	4708.6	4700.6	4695.6	4695.6
25°	4930.2	4915.5	4915.5	4913.9	4909.1	4904.1	4894.3	4899.3
27.5°	5161.7	5153.4	5160.0	5158.2	5153.4	5153.4	5146.8	5146.8
30°	5446.8	5443.4	5453.3	5445.0	5428.7	5427.1	5420.6	5412.5
32.5°	5775.8	5772.6	5787.2	5777.4	5751.4	5736.7	5723.7	5717.2
35°	6142.4	6144.0	6162.0	6155.5	6126.1	6116.3	6093.6	6090.2
37.5°	6543.3	6569.2	6600.2	6606.8	6582.3	6575.9	6551.3	6538.4
40°	7014.1	7048.3	7095.5	7106.9	7080.9	7075.9	7041.8	7023.8
42.5°	7515.8	7574.6	7633.2	7643.0	7616.9	7590.9	7558.2	7545.3
45°	8076.3	8146.4	8222.9	8242.6	8203.4	8172.5	8130.1	8130.1
47.5°	8705.3	8793.2	8879.6	8933.4	8897.5	8865.0	8814.3	8781.8
50°	9448.3	9568.7	9681.3	9736.5	9679.5	9617.7	9529.7	9500.4
52.5°	10380.2	10510.4	10608.3	10578.9	10490.9	10404.6	10308.5	10269.3
55°	11569.5	11613.6	11613.6	11502.7	11326.8	11181.8	11030.3	10979.8
57.5°	13057.0	12887.7	12626.9	12296.2	11880.8	11519.1	11274.6	11158.9
60°	14805.2	13990.7	13070.1	12165.8	11422.8	10810.4	10447.0	10280.8
62.5°	15970.2	13839.2	11994.8	10543.0	9474.2	8736.2	8234.5	8038.9
65°	14925.9	11541.9	9071.9	7335.0	6170.1	5418.9	4922.1	4739.5
67.5°	10932.6	7232.4	4830.8	3462.2	2536.9	2023.6	1819.8	1735.2
70°	4907.4	2546.5	1560.8	1218.7	1050.8	964.5	927.1	914.0
72.5°	1479.4	1070.4	902.6	814.7	747.8	705.4	674.5	671.3
75°	892.8	743.0	659.9	607.8	565.4	531.2	514.9	510.0
77.5°	624.1	545.8	506.7	469.3	436.7	410.5	396.0	384.6
80°	438.3	400.9	382.9	361.7	340.5	316.1	295.0	285.1
82.5°	293.2	285.1	285.1	272.0	254.2	231.4	189.1	179.2
85°	189.1	187.3	190.6	185.7	172.7	148.3	122.2	115.7
87.5°	87.9	89.7	99.4	97.7	94.5	78.2	62.0	58.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)