

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: P190854

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190854
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37565.8 lumens
Efficiency: N/A
Efficacy: 112.8 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): 333
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

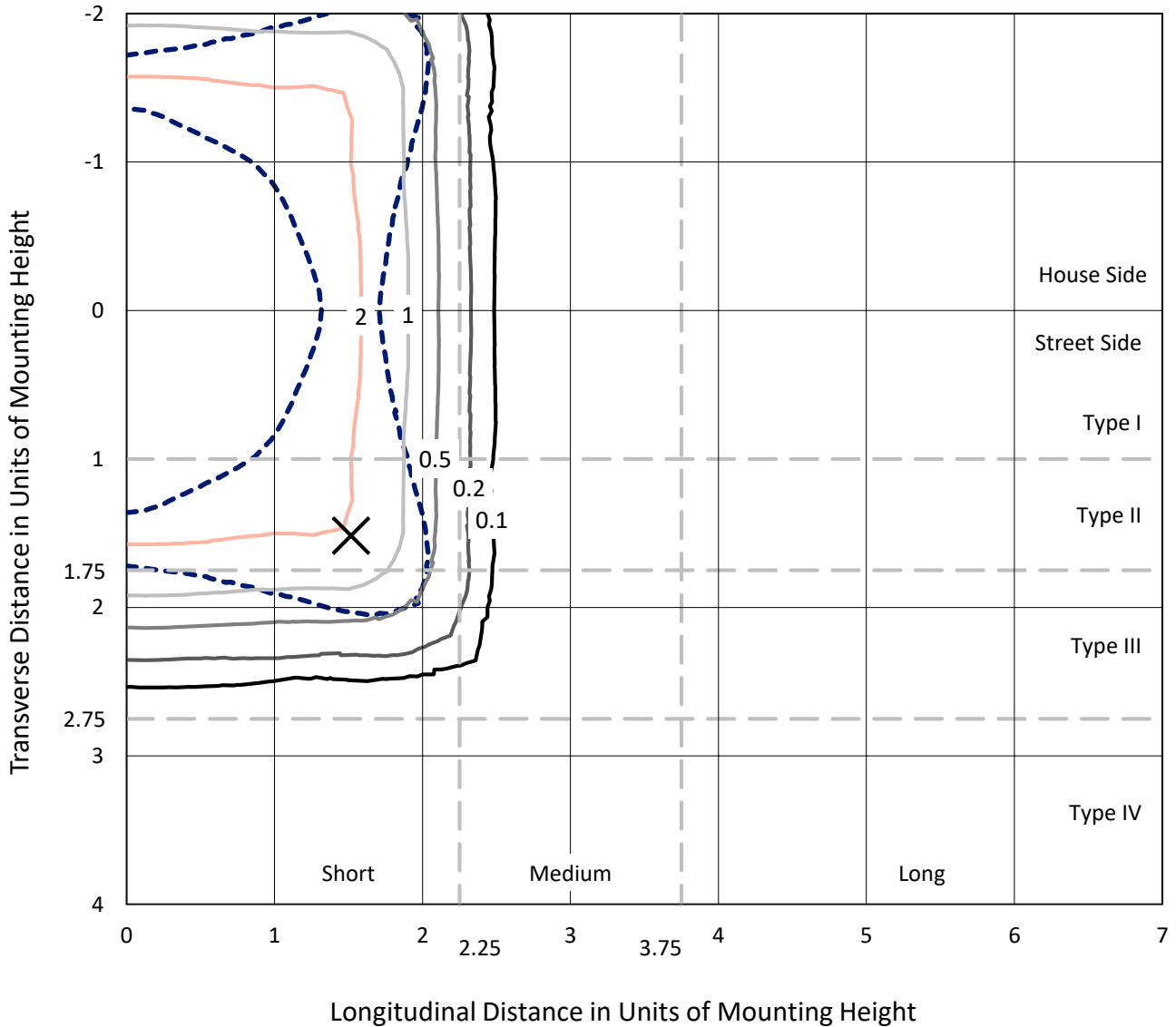


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

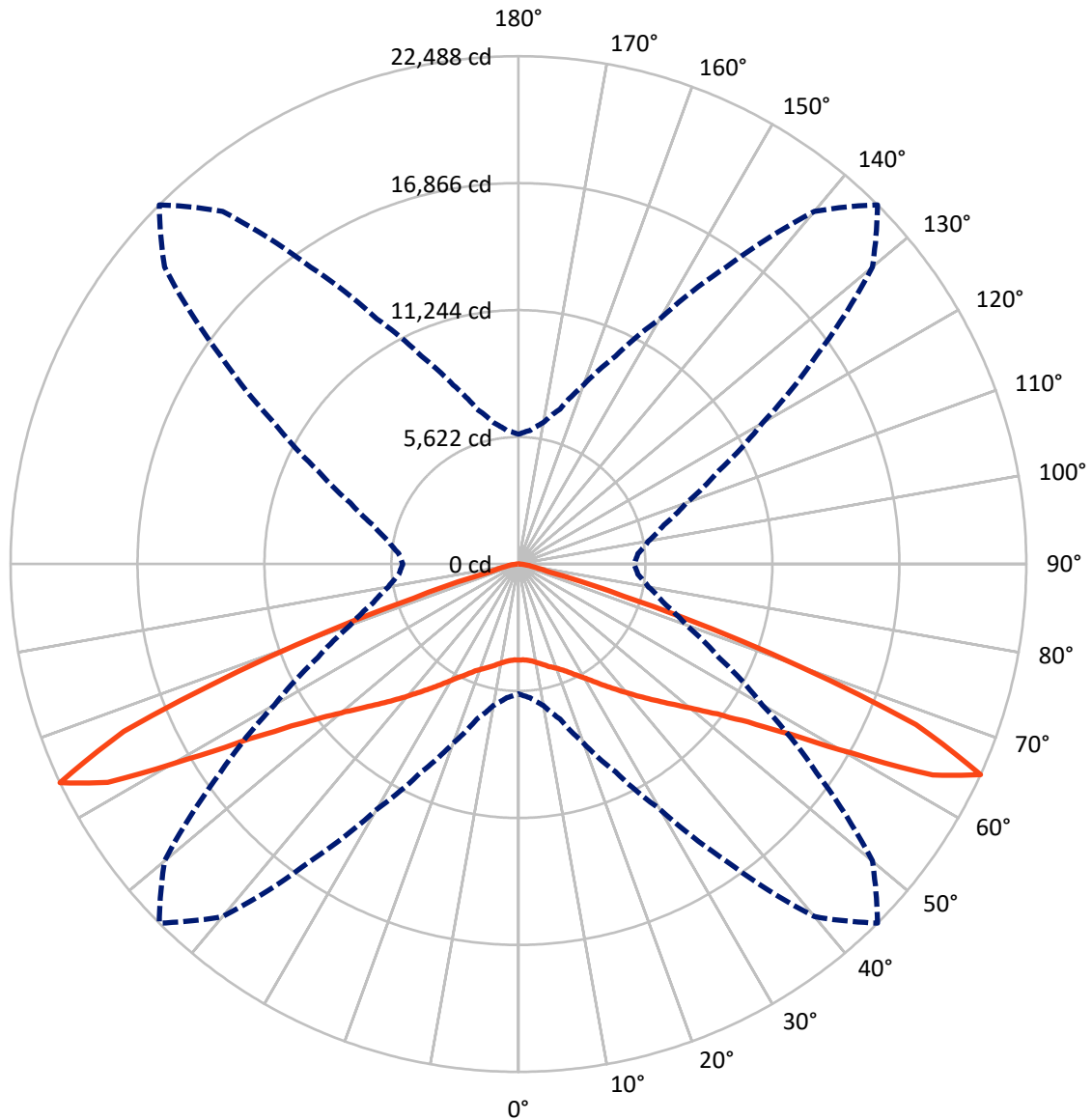


Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Full Cutoff

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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	18782.9	0.0	18782.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18782.9	0.0	18782.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	37565.8	0.0	37565.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.3	1.1
10°-20°	1328.7	3.5
20°-30°	2484.5	6.6
30°-40°	4201.9	11.2
40°-50°	6870.6	18.3
50°-60°	10925.3	29.1
60°-70°	9875.8	26.3
70°-80°	1249.8	3.3
80°-90°	215.0	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°	37565.8	100.0
0°-180°	37565.8	100.0



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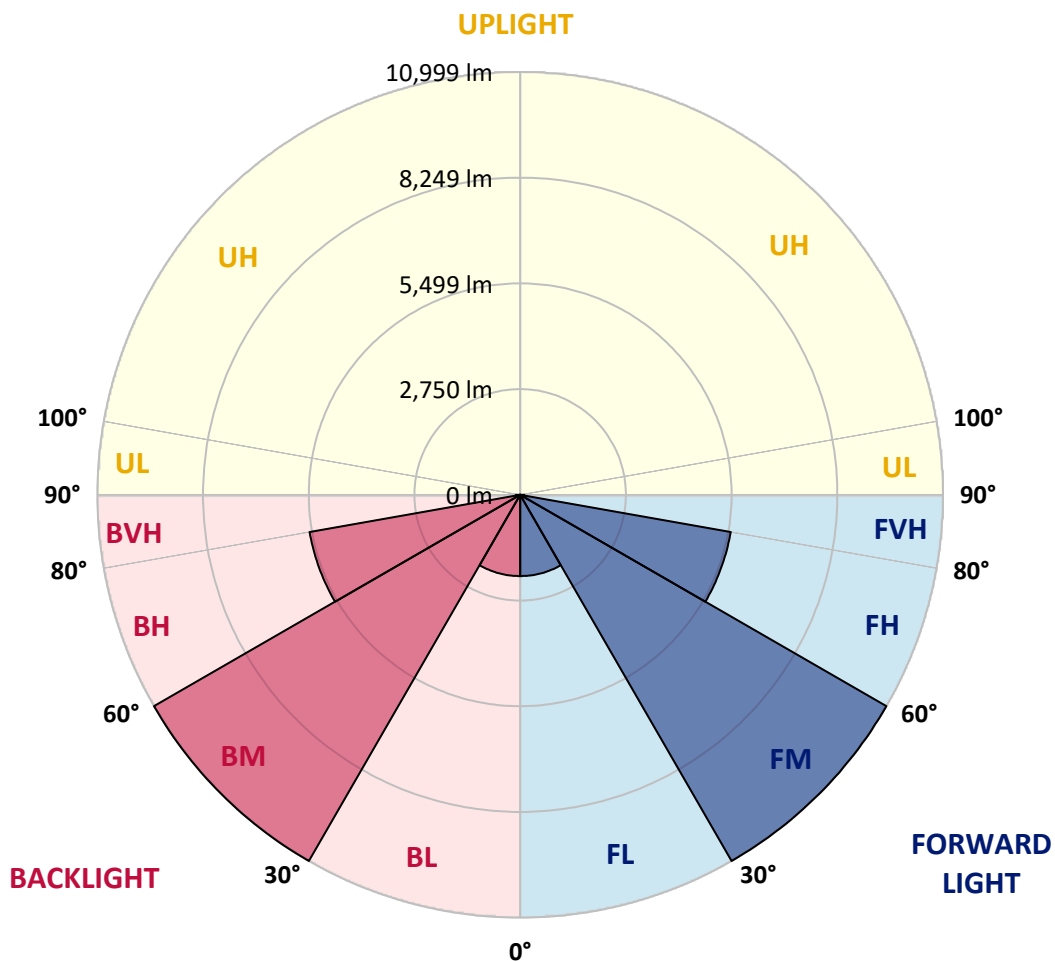
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2113.7	5.6			
FM	(30°-60°)	10998.9	29.3			
FH	(60°-80°)	5562.8	14.8			G3/7500
FVH	(80°-90°)	107.5	0.3			G2/225
BL	(0°-30°)	2113.7	5.6	B3/2500		
BM	(30°-60°)	10998.9	29.3	B5		
BH	(60°-80°)	5562.8	14.8	B5		G3/7500
BVH	(80°-90°)	107.5	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°	4250.6	4250.6	4250.6	4250.6	4250.6	4250.6	4250.6	4250.6	4250.6	4250.6	4250.6
2.5°	4254.1	4257.6	4261.1	4257.6	4261.1	4255.9	4252.3	4257.6	4252.3	4247.1	4250.6
5°	4291.1	4292.8	4292.8	4287.5	4292.8	4289.3	4284.0	4291.1	4285.8	4280.5	4284.0
7.5°	4352.7	4359.7	4354.4	4349.1	4352.7	4349.1	4345.6	4347.3	4345.6	4340.3	4342.1
10°	4435.3	4440.6	4437.0	4435.3	4438.9	4437.0	4433.6	4431.8	4433.6	4428.3	4428.3
12.5°	4535.6	4533.8	4532.1	4533.8	4539.1	4539.1	4537.4	4539.1	4542.6	4544.4	4540.9
15°	4634.2	4637.6	4637.6	4637.6	4648.2	4657.0	4662.3	4665.8	4672.8	4674.6	4667.5
17.5°	4757.3	4757.3	4755.5	4757.3	4767.9	4781.9	4787.2	4794.3	4801.2	4806.5	4797.7
20°	4894.5	4898.0	4898.0	4901.6	4915.6	4931.4	4931.4	4935.0	4931.4	4935.0	4929.7
22.5°	5061.7	5072.2	5072.2	5073.9	5088.1	5107.4	5102.1	5107.4	5098.6	5105.6	5098.6
25°	5279.9	5295.6	5292.1	5292.1	5302.7	5315.0	5316.8	5327.3	5325.6	5334.4	5329.1
27.5°	5526.1	5550.7	5557.8	5556.1	5563.1	5575.4	5578.9	5591.2	5584.2	5591.2	5587.7
30°	5821.7	5832.3	5846.4	5851.6	5860.4	5872.8	5872.8	5874.5	5865.7	5876.2	5881.6
32.5°	6127.8	6147.2	6161.2	6192.9	6208.8	6217.6	6215.8	6219.3	6210.5	6224.6	6235.2
35°	6532.5	6546.6	6569.4	6594.0	6615.1	6613.4	6608.2	6609.9	6609.9	6622.2	6632.7
37.5°	7019.8	7023.4	7053.2	7088.4	7099.0	7088.4	7056.7	7049.8	7033.9	7049.8	7067.4
40°	7535.3	7547.6	7607.5	7630.3	7635.6	7616.3	7570.4	7544.1	7508.9	7528.3	7552.9
42.5°	8075.4	8100.0	8154.6	8195.1	8212.7	8200.4	8137.0	8096.6	8050.8	8061.4	8086.0
45°	8673.6	8703.5	8780.9	8819.7	8853.0	8833.7	8772.1	8710.5	8638.4	8643.7	8682.4
47.5°	9342.2	9372.1	9472.3	9537.5	9555.1	9551.5	9482.9	9398.5	9300.0	9296.4	9329.8
50°	10091.6	10121.6	10246.5	10346.7	10397.8	10392.5	10311.5	10192.0	10072.3	10074.0	10116.3
52.5°	10823.5	10860.5	10990.7	11163.1	11263.4	11335.5	11286.2	11173.7	11027.6	11031.1	11069.9
55°	11509.6	11571.2	11720.8	11954.8	12141.3	12343.6	12401.6	12398.2	12310.2	12334.8	12373.5
57.5°	11842.2	11933.6	12164.1	12533.6	12913.6	13325.4	13673.7	13934.0	14044.9	14212.1	14173.3
60°	11212.4	11358.3	11698.0	12241.6	12992.8	13851.4	14771.5	15670.6	16437.6	17016.5	16683.9
62.5°	9180.3	9370.3	9782.0	10478.7	11615.2	12989.3	14750.4	16875.7	19191.0	20587.9	19590.4
65°	5744.3	5941.3	6360.1	7106.0	8436.1	10144.4	12533.6	16055.8	20382.1	22488.0	20457.8
67.5°	2239.6	2347.0	2573.9	3050.7	4050.1	5570.1	7968.1	11965.4	17139.6	18985.1	16821.2
70°	1122.5	1133.0	1175.3	1263.2	1477.9	1919.5	2920.5	5547.3	9829.5	11872.1	9475.9
72.5°	811.1	812.8	833.9	872.7	941.2	1039.7	1229.8	1697.8	3196.7	4885.7	2996.2
75°	621.0	628.1	640.4	661.5	698.5	747.7	816.3	978.2	1212.2	1405.7	1182.3
77.5°	478.5	492.7	501.5	520.8	543.6	577.0	596.4	658.0	765.3	805.8	793.5
80°	364.2	376.5	395.9	411.7	427.5	443.3	436.3	464.4	520.8	554.2	536.6
82.5°	232.2	246.3	302.6	316.7	323.8	334.3	321.9	323.8	348.3	369.5	348.3
85°	149.6	158.4	191.8	209.4	211.1	218.2	212.9	200.6	200.6	183.0	205.8
87.5°	68.6	70.4	86.2	102.1	105.6	95.0	93.3	89.7	72.1	68.6	73.9
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°	4250.6	4250.6	4250.6	4250.6	4250.6	4250.6	4250.6	4250.6
2.5°	4248.8	4252.3	4254.1	4259.4	4261.1	4261.1	4262.9	4266.4
5°	4282.3	4287.5	4289.3	4296.3	4298.1	4296.3	4299.9	4301.6
7.5°	4342.1	4350.9	4354.4	4361.5	4356.1	4363.2	4364.9	4364.9
10°	4430.1	4438.9	4440.6	4447.7	4444.1	4447.7	4447.7	4444.1
12.5°	4546.2	4547.9	4542.6	4547.9	4540.9	4544.4	4539.1	4535.6
15°	4674.6	4669.4	4657.0	4657.0	4646.4	4648.2	4646.4	4644.7
17.5°	4799.5	4788.9	4780.1	4776.7	4767.9	4766.1	4760.8	4760.8
20°	4936.8	4931.4	4926.2	4919.2	4910.4	4901.6	4899.8	4903.3
22.5°	5102.1	5100.3	5100.3	5096.9	5084.5	5075.8	5070.5	5070.5
25°	5323.8	5308.0	5308.0	5306.3	5300.9	5295.6	5285.1	5290.4
27.5°	5573.6	5564.9	5571.9	5570.1	5564.9	5564.9	5557.8	5557.8
30°	5881.6	5878.0	5888.5	5879.7	5862.1	5860.4	5853.3	5844.5
32.5°	6236.9	6233.4	6249.2	6238.7	6210.5	6194.7	6180.6	6173.6
35°	6632.7	6634.6	6653.9	6646.8	6615.1	6604.6	6579.9	6576.4
37.5°	7065.5	7093.8	7127.1	7134.2	7107.8	7100.7	7074.3	7060.3
40°	7574.0	7611.0	7662.0	7674.3	7646.1	7640.8	7603.9	7584.6
42.5°	8115.9	8179.2	8242.5	8253.2	8224.9	8196.8	8161.6	8147.6
45°	8721.1	8796.8	8879.4	8900.6	8858.3	8824.9	8779.2	8779.2
47.5°	9400.2	9495.2	9588.4	9646.5	9607.9	9572.7	9518.0	9482.9
50°	10202.5	10332.6	10454.0	10513.9	10452.3	10385.4	10290.5	10258.8
52.5°	11208.8	11349.5	11455.1	11423.5	11328.5	11235.2	11131.4	11089.2
55°	12493.2	12540.7	12540.7	12421.0	12231.0	12074.4	11910.8	11856.3
57.5°	14099.4	13916.4	13635.0	13277.8	12829.2	12438.6	12174.8	12049.7
60°	15987.2	15107.6	14113.6	13137.0	12334.8	11673.3	11281.0	11101.5
62.5°	17245.2	14944.0	12952.3	11384.7	10230.6	9433.7	8891.8	8680.7
65°	16117.4	12463.2	9796.1	7920.6	6662.7	5851.6	5315.0	5117.9
67.5°	11805.3	7809.7	5216.4	3738.6	2739.4	2185.1	1965.2	1873.7
70°	5299.2	2749.9	1685.4	1316.0	1134.8	1041.6	1001.1	987.0
72.5°	1597.4	1155.9	974.7	879.6	807.5	761.8	728.3	724.9
75°	964.1	802.3	712.6	656.2	610.5	573.6	556.0	550.7
77.5°	673.8	589.4	547.2	506.7	471.5	443.3	427.5	415.2
80°	473.2	432.8	413.5	390.6	367.8	341.4	318.4	307.9
82.5°	316.7	307.9	307.9	293.8	274.5	249.8	204.1	193.5
85°	204.1	202.3	205.8	200.6	186.5	160.1	132.0	124.9
87.5°	95.0	96.8	107.3	105.6	102.1	84.5	66.9	63.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)