

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: P191654

Luminaire Tested: **GLEON-AF-06-LED-E1-5NQ-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191654  
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-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 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: 36723 lumens  
Efficiency: N/A  
Efficacy: 110.3 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

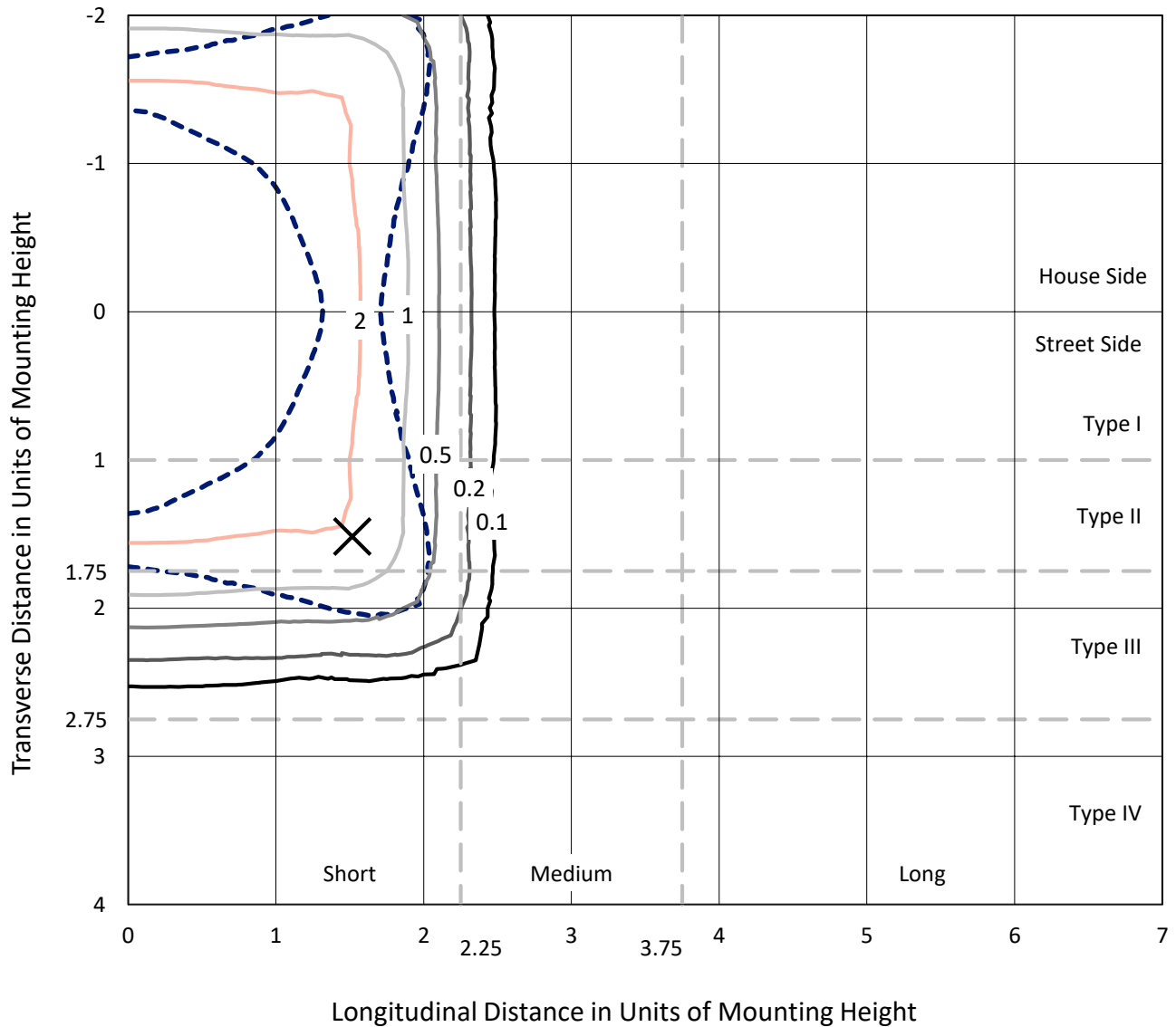
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

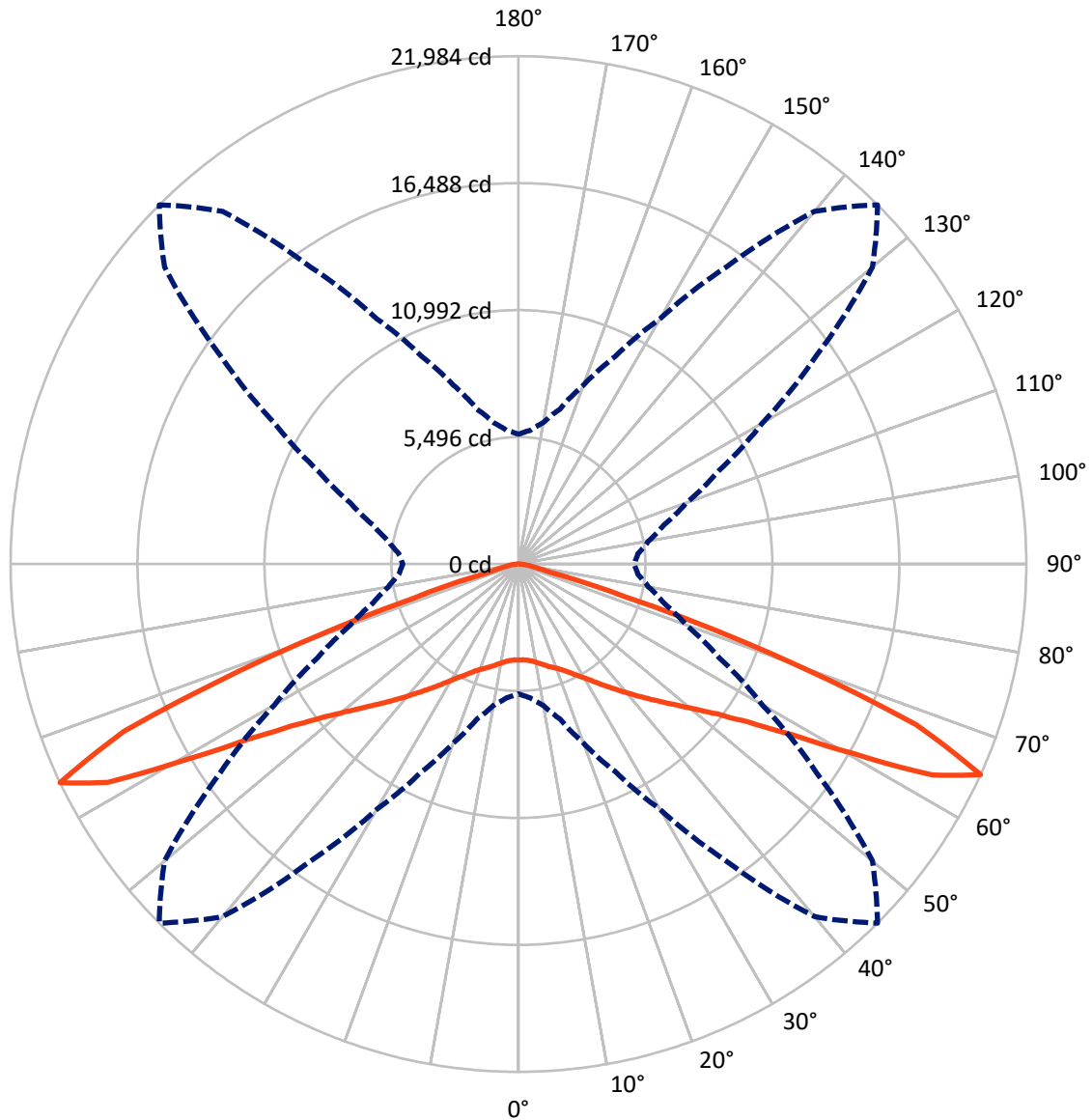
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.6 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
<b>House Side</b>	Lumens	18361.5	0.0	18361.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18361.5	0.0	18361.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36723.0	0.0	36723.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.0	1.1
10°-20°	1298.9	3.5
20°-30°	2428.7	6.6
30°-40°	4107.6	11.2
40°-50°	6716.4	18.3
50°-60°	10680.2	29.1
60°-70°	9654.2	26.3
70°-80°	1221.8	3.3
80°-90°	210.2	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°	36723.0	100.0
0°-180°	36723.0	100.0



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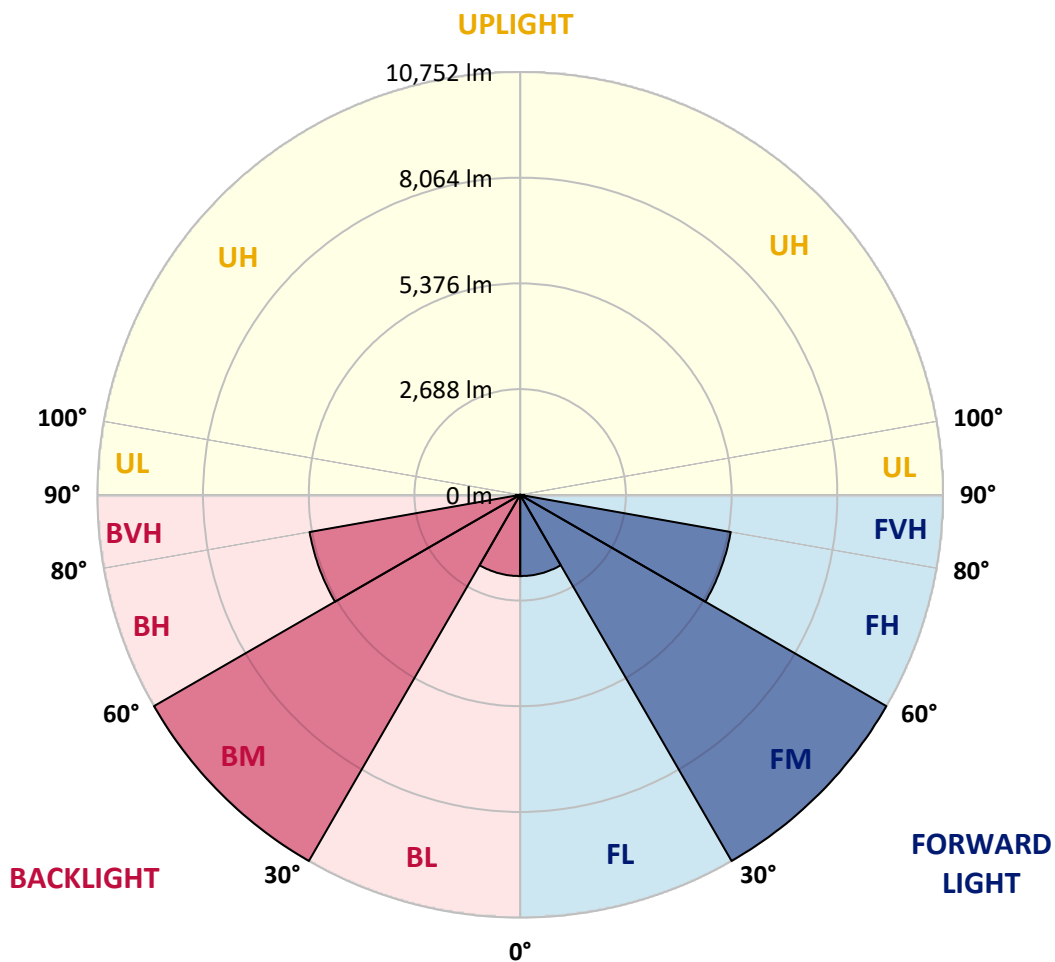
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2066.3	5.6			
FM	(30°-60°)	10752.1	29.3			
FH	(60°-80°)	5438.0	14.8			G3/7500
FVH	(80°-90°)	105.1	0.3			G2/225
BL	(0°-30°)	2066.3	5.6	B3/2500		
BM	(30°-60°)	10752.1	29.3	B5		
BH	(60°-80°)	5438.0	14.8	B5		G3/7500
BVH	(80°-90°)	105.1	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°	4155.2	4155.2	4155.2	4155.2	4155.2	4155.2	4155.2	4155.2	4155.2	4155.2	4155.2
2.5°	4158.7	4162.1	4165.5	4162.1	4165.5	4160.4	4156.9	4162.1	4156.9	4151.8	4155.2
5°	4194.8	4196.5	4196.5	4191.3	4196.5	4193.1	4187.9	4194.8	4189.6	4184.5	4187.9
7.5°	4255.0	4261.9	4256.7	4251.5	4255.0	4251.5	4248.1	4249.8	4248.1	4242.9	4244.7
10°	4335.8	4341.0	4337.5	4335.8	4339.3	4337.5	4334.1	4332.4	4334.1	4328.9	4328.9
12.5°	4433.8	4432.1	4430.4	4432.1	4437.3	4437.3	4435.6	4437.3	4440.7	4442.4	4439.0
15°	4530.2	4533.6	4533.6	4533.6	4543.9	4552.5	4557.7	4561.1	4568.0	4569.7	4562.8
17.5°	4650.6	4650.6	4648.8	4650.6	4660.9	4674.6	4679.8	4686.7	4693.5	4698.7	4690.1
20°	4784.7	4788.1	4788.1	4791.6	4805.3	4820.8	4820.8	4824.3	4820.8	4824.3	4819.1
22.5°	4948.1	4958.4	4958.4	4960.1	4973.9	4992.8	4987.6	4992.8	4984.2	4991.1	4984.2
25°	5161.4	5176.8	5173.4	5173.4	5183.7	5195.8	5197.5	5207.8	5206.1	5214.7	5209.5
27.5°	5402.1	5426.2	5433.1	5431.4	5438.3	5450.3	5453.7	5465.8	5458.9	5465.8	5462.3
30°	5691.1	5701.4	5715.2	5720.3	5728.9	5741.0	5741.0	5742.7	5734.1	5744.4	5749.6
32.5°	5990.3	6009.3	6023.0	6054.0	6069.5	6078.1	6076.3	6079.8	6071.2	6084.9	6095.3
35°	6385.9	6399.7	6422.0	6446.1	6466.7	6465.0	6459.9	6461.6	6461.6	6473.6	6483.9
37.5°	6862.3	6865.8	6895.0	6929.4	6939.7	6929.4	6898.4	6891.6	6876.1	6891.6	6908.8
40°	7366.2	7378.3	7436.8	7459.1	7464.3	7445.4	7400.6	7374.8	7340.4	7359.4	7383.4
42.5°	7894.2	7918.3	7971.6	8011.2	8028.4	8016.4	7954.4	7914.9	7870.2	7880.5	7904.6
45°	8479.0	8508.2	8583.9	8621.8	8654.4	8635.5	8575.3	8515.1	8444.6	8449.8	8487.6
47.5°	9132.6	9161.8	9259.8	9323.5	9340.7	9337.2	9270.1	9187.6	9091.3	9087.8	9120.5
50°	9865.2	9894.5	10016.6	10114.6	10164.5	10159.3	10080.2	9963.3	9846.3	9848.0	9889.3
52.5°	10580.7	10616.8	10744.1	10912.6	11010.7	11081.2	11033.0	10923.0	10780.2	10783.6	10821.5
55°	11251.4	11311.6	11457.8	11686.6	11868.9	12066.7	12123.4	12120.0	12034.0	12058.1	12095.9
57.5°	11576.5	11665.9	11891.2	12252.4	12623.9	13026.4	13366.9	13621.4	13729.8	13893.2	13855.3
60°	10960.8	11103.5	11435.5	11966.9	12701.3	13540.6	14440.1	15319.0	16068.8	16634.7	16309.6
62.5°	8974.3	9160.1	9562.5	10243.6	11354.6	12697.9	14419.5	16497.1	18760.4	20126.0	19150.9
65°	5615.4	5808.0	6217.4	6946.6	8246.8	9916.8	12252.4	15695.6	19924.8	21983.5	19998.8
67.5°	2189.4	2294.3	2516.2	2982.3	3959.2	5445.1	7789.3	11696.9	16755.1	18559.2	16443.8
70°	1097.3	1107.6	1148.9	1234.9	1444.7	1876.4	2855.0	5422.8	9609.0	11605.7	9263.3
72.5°	792.9	794.6	815.2	853.1	920.1	1016.4	1202.2	1659.7	3125.0	4776.1	2929.0
75°	607.1	614.0	626.0	646.7	682.8	730.9	798.0	956.3	1185.0	1374.2	1155.8
77.5°	467.8	481.6	490.2	509.1	531.4	564.1	583.0	643.2	748.1	787.7	775.7
80°	356.0	368.1	387.0	402.5	417.9	433.4	426.5	454.0	509.1	541.8	524.6
82.5°	227.0	240.8	295.8	309.6	316.5	326.8	314.7	316.5	340.5	361.2	340.5
85°	146.2	154.8	187.5	204.7	206.4	213.3	208.1	196.1	196.1	178.9	201.2
87.5°	67.1	68.8	84.3	99.8	103.2	92.9	91.2	87.7	70.5	67.1	72.2
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°	4155.2	4155.2	4155.2	4155.2	4155.2	4155.2	4155.2	4155.2
2.5°	4153.5	4156.9	4158.7	4163.8	4165.5	4165.5	4167.3	4170.7
5°	4186.2	4191.3	4193.1	4199.9	4201.7	4199.9	4203.4	4205.1
7.5°	4244.7	4253.3	4256.7	4263.6	4258.4	4265.3	4267.0	4267.0
10°	4330.7	4339.3	4341.0	4347.9	4344.4	4347.9	4347.9	4344.4
12.5°	4444.2	4445.9	4440.7	4445.9	4439.0	4442.4	4437.3	4433.8
15°	4569.7	4564.6	4552.5	4552.5	4542.2	4543.9	4542.2	4540.5
17.5°	4691.8	4681.5	4672.9	4669.5	4660.9	4659.2	4654.0	4654.0
20°	4826.0	4820.8	4815.7	4808.8	4800.2	4791.6	4789.9	4793.3
22.5°	4987.6	4985.9	4985.9	4982.5	4970.4	4961.9	4956.7	4956.7
25°	5204.4	5188.9	5188.9	5187.2	5182.0	5176.8	5166.5	5171.7
27.5°	5448.6	5440.0	5446.9	5445.1	5440.0	5440.0	5433.1	5433.1
30°	5749.6	5746.1	5756.4	5747.8	5730.6	5728.9	5722.0	5713.4
32.5°	6097.0	6093.5	6109.0	6098.7	6071.2	6055.7	6041.9	6035.1
35°	6483.9	6485.7	6504.6	6497.7	6466.7	6456.4	6432.3	6428.9
37.5°	6907.0	6934.6	6967.2	6974.1	6948.3	6941.4	6915.6	6901.9
40°	7404.1	7440.2	7490.1	7502.1	7474.6	7469.4	7433.3	7414.4
42.5°	7933.8	7995.7	8057.6	8068.0	8040.4	8012.9	7978.5	7964.8
45°	8525.4	8599.4	8680.2	8700.9	8659.6	8626.9	8582.2	8582.2
47.5°	9189.3	9282.2	9373.3	9430.1	9392.3	9357.9	9304.5	9270.1
50°	9973.6	10100.8	10219.5	10278.0	10217.8	10152.4	10059.6	10028.6
52.5°	10957.3	11094.9	11198.1	11167.2	11074.3	10983.1	10881.7	10840.4
55°	12212.9	12259.3	12259.3	12142.3	11956.6	11803.5	11643.6	11590.3
57.5°	13783.1	13604.2	13329.1	12979.9	12541.4	12159.5	11901.6	11779.4
60°	15628.5	14768.6	13796.9	12842.3	12058.1	11411.4	11027.9	10852.4
62.5°	16858.3	14608.7	12661.7	11129.3	10001.1	9222.0	8692.3	8485.9
65°	15755.8	12183.6	9576.3	7742.9	6513.2	5720.3	5195.8	5003.1
67.5°	11540.4	7634.5	5099.4	3654.7	2677.9	2136.1	1921.1	1831.7
70°	5180.3	2688.2	1647.6	1286.5	1109.3	1018.2	978.6	964.9
72.5°	1561.6	1130.0	952.8	859.9	789.4	744.7	712.0	708.6
75°	942.5	784.3	696.6	641.5	596.8	560.7	543.5	538.3
77.5°	658.7	576.2	534.9	495.3	460.9	433.4	417.9	405.9
80°	462.6	423.1	404.2	381.8	359.5	333.7	311.3	301.0
82.5°	309.6	301.0	301.0	287.2	268.3	244.2	199.5	189.2
85°	199.5	197.8	201.2	196.1	182.3	156.5	129.0	122.1
87.5°	92.9	94.6	104.9	103.2	99.8	82.6	65.4	61.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)