

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: P191666

Luminaire Tested: **GLEON-AF-08-LED-E1-5NQ-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191666  
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-08-LED-E1-5NQ-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 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: 53981 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 511  
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

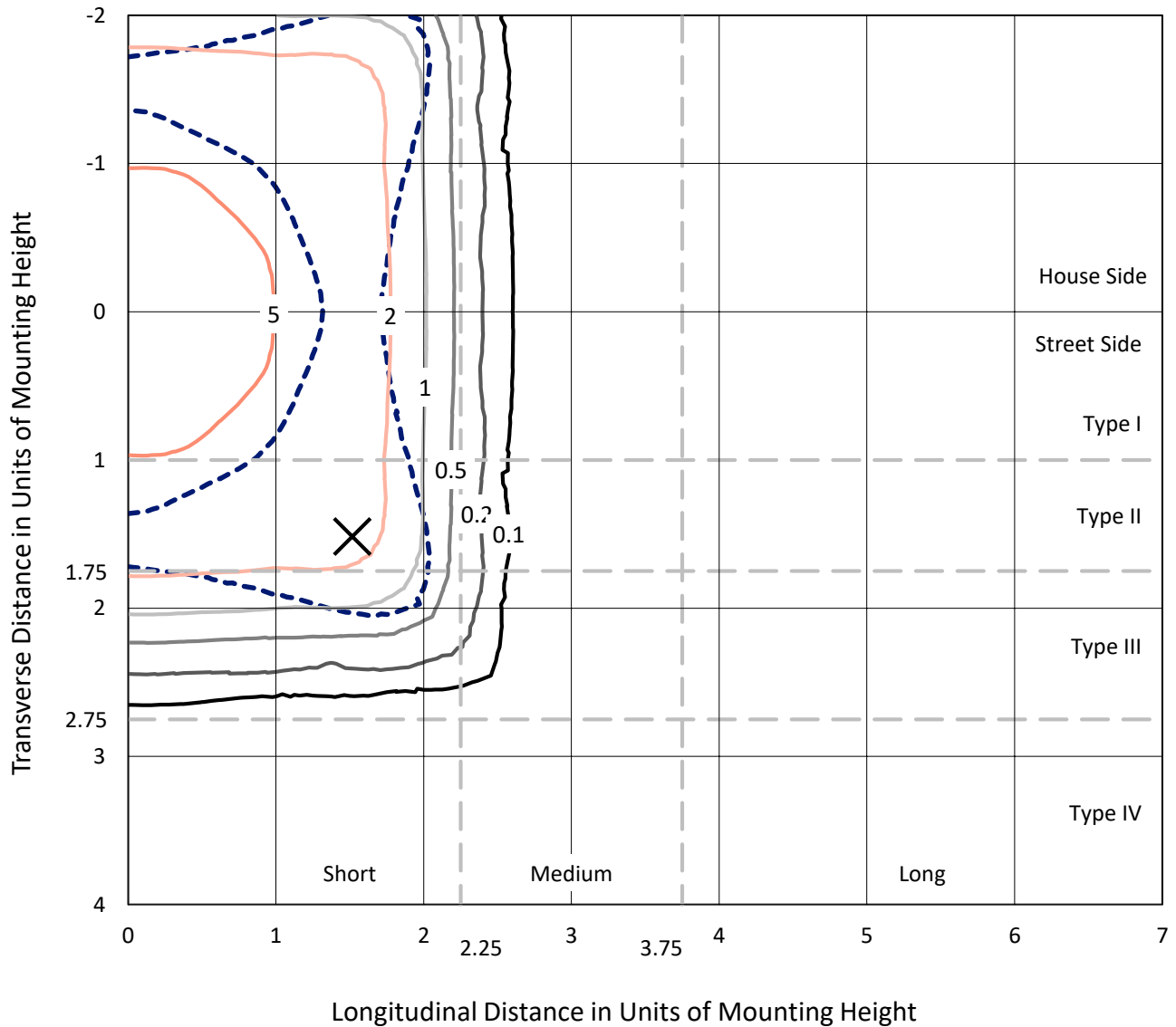


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

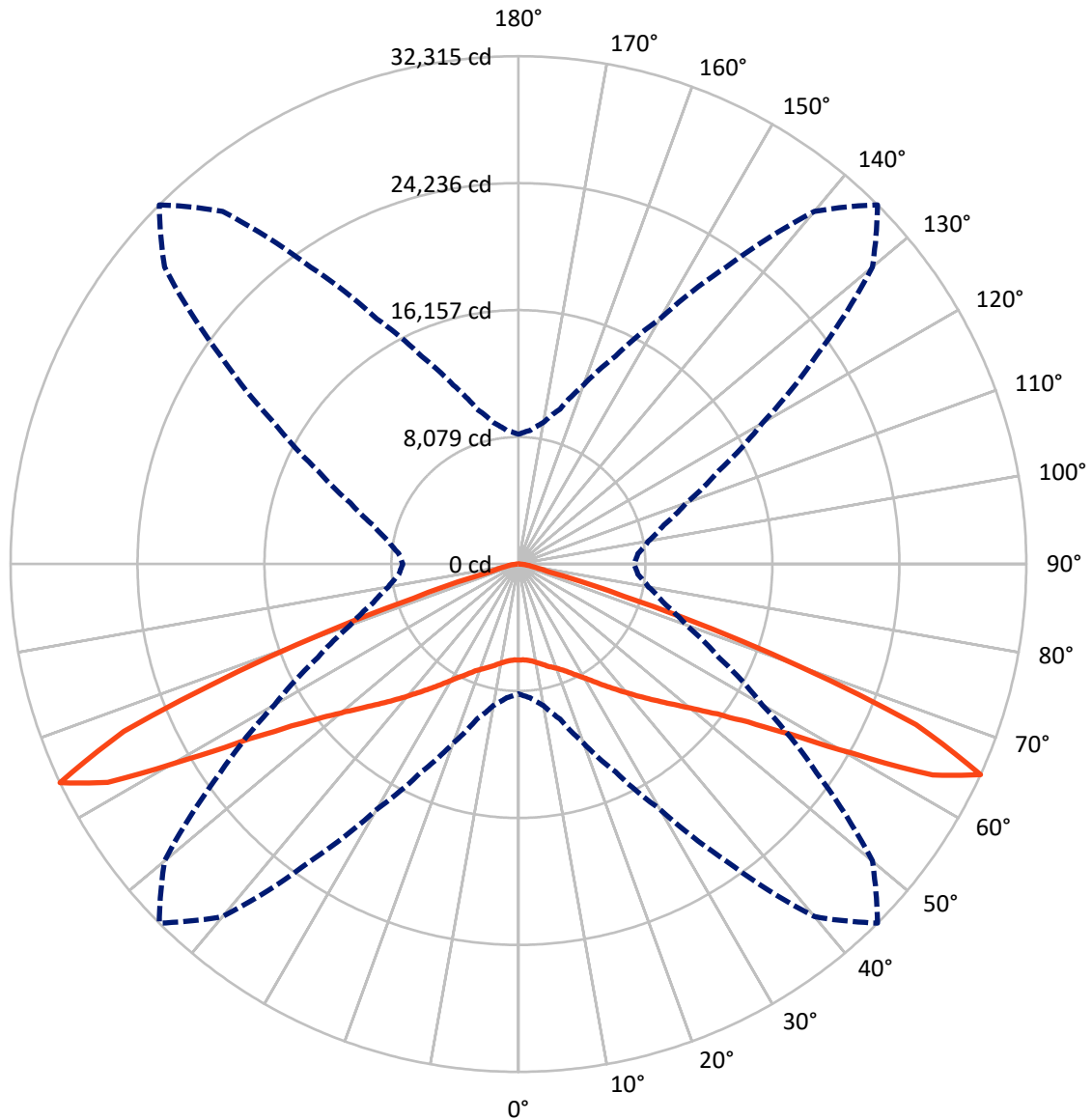


Based on 30 foot mounting height. Maximum calculated value = 6.8 fc  
 Type V - Short - Full Cutoff

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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	26990.5	0.0	26990.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26990.5	0.0	26990.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	53981.0	0.0	53981.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	595.3	1.1
10°-20°	1909.3	3.5
20°-30°	3570.1	6.6
30°-40°	6038.0	11.2
40°-50°	9872.8	18.3
50°-60°	15699.3	29.1
60°-70°	14191.2	26.3
70°-80°	1796.0	3.3
80°-90°	308.9	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°	53981.0	100.0
0°-180°	53981.0	100.0



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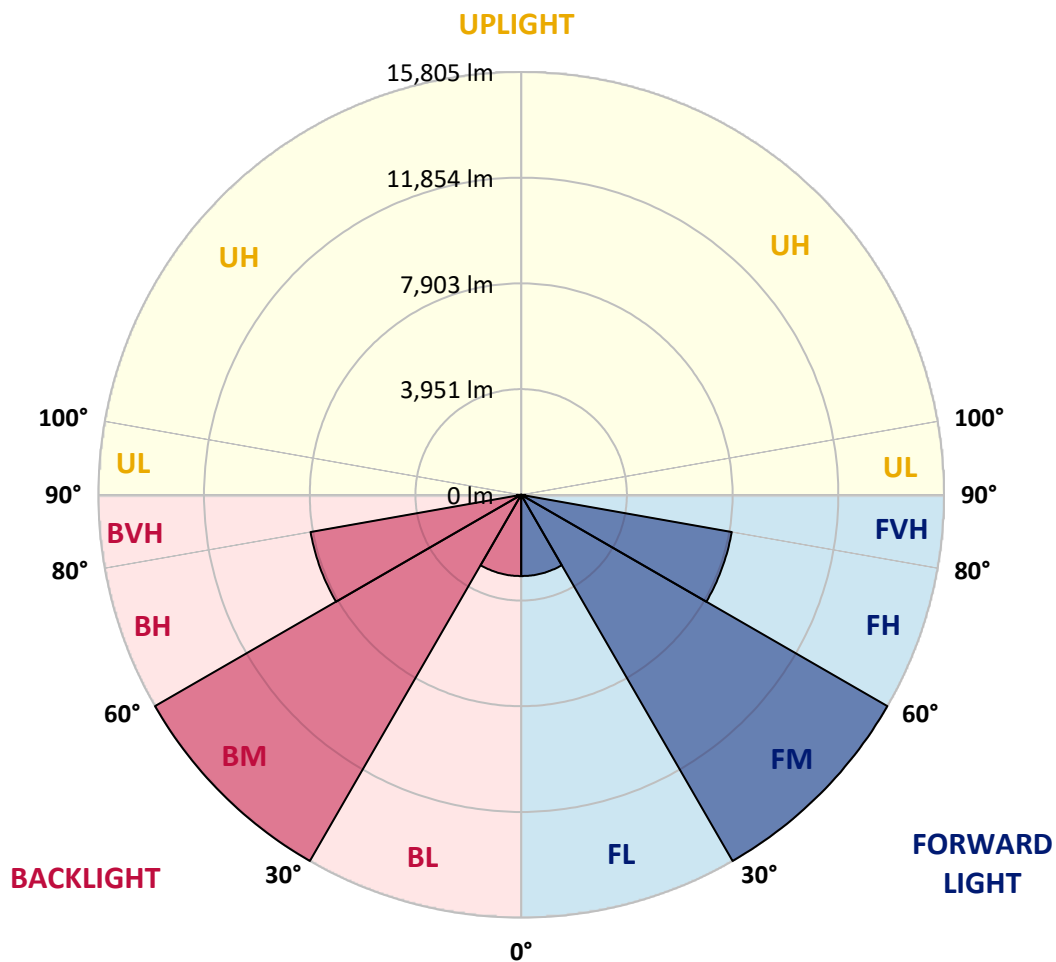
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3037.4	5.6			
FM (30°-60°)	15805.1	29.3			
FH (60°-80°)	7993.6	14.8			G4/12000
FVH (80°-90°)	154.5	0.3			G2/225
BL (0°-30°)	3037.4	5.6	B4/5000		
BM (30°-60°)	15805.1	29.3	B5		
BH (60°-80°)	7993.6	14.8	B5		G4/12000
BVH (80°-90°)	154.5	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-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6108.0	6108.0	6108.0	6108.0	6108.0	6108.0	6108.0	6108.0	6108.0	6108.0	6108.0
2.5°	6113.0	6118.1	6123.1	6118.1	6123.1	6115.6	6110.5	6118.1	6110.5	6102.9	6108.0
5°	6166.1	6168.7	6168.7	6161.1	6168.7	6163.6	6156.0	6166.1	6158.5	6151.0	6156.0
7.5°	6254.6	6264.7	6257.1	6249.6	6254.6	6249.6	6244.5	6247.0	6244.5	6236.9	6239.4
10°	6373.4	6381.0	6376.0	6373.4	6378.5	6376.0	6370.9	6368.4	6370.9	6363.3	6363.3
12.5°	6517.5	6515.0	6512.5	6515.0	6522.6	6522.6	6520.1	6522.6	6527.6	6530.2	6525.1
15°	6659.1	6664.2	6664.2	6664.2	6679.3	6692.0	6699.6	6704.6	6714.7	6717.3	6707.1
17.5°	6836.1	6836.1	6833.6	6836.1	6851.3	6871.5	6879.1	6889.2	6899.3	6906.9	6894.2
20°	7033.3	7038.3	7038.3	7043.4	7063.6	7086.4	7086.4	7091.4	7086.4	7091.4	7083.8
22.5°	7273.5	7288.6	7288.6	7291.1	7311.4	7339.2	7331.6	7339.2	7326.5	7336.7	7326.5
25°	7586.9	7609.7	7604.6	7604.6	7619.8	7637.5	7640.0	7655.2	7652.7	7665.3	7657.7
27.5°	7940.9	7976.3	7986.4	7983.9	7994.0	8011.7	8016.7	8034.4	8024.3	8034.4	8029.4
30°	8365.6	8380.8	8401.0	8408.6	8421.2	8438.9	8438.9	8441.4	8428.8	8444.0	8451.6
32.5°	8805.5	8833.3	8853.5	8899.0	8921.8	8934.4	8931.9	8937.0	8924.3	8944.5	8959.7
35°	9387.0	9407.2	9440.1	9475.5	9505.8	9503.3	9495.7	9498.2	9498.2	9515.9	9531.1
37.5°	10087.3	10092.3	10135.3	10185.9	10201.0	10185.9	10140.4	10130.2	10107.5	10130.2	10155.5
40°	10828.0	10845.7	10931.7	10964.5	10972.1	10944.3	10878.6	10840.7	10790.1	10817.9	10853.3
42.5°	11604.1	11639.5	11717.9	11776.1	11801.3	11783.6	11692.6	11634.5	11568.8	11583.9	11619.3
45°	12463.7	12506.7	12617.9	12673.6	12721.6	12693.8	12605.3	12516.8	12413.2	12420.7	12476.4
47.5°	13424.4	13467.4	13611.5	13705.0	13730.3	13725.3	13626.7	13505.3	13363.7	13358.7	13406.7
50°	14501.4	14544.4	14723.9	14868.0	14941.3	14933.7	14817.4	14645.5	14473.6	14476.1	14536.8
52.5°	15553.1	15606.2	15793.3	16041.0	16185.1	16288.8	16218.0	16056.2	15846.4	15851.4	15907.0
55°	16539.1	16627.6	16842.4	17178.7	17446.7	17737.4	17820.8	17815.8	17689.4	17724.8	17780.4
57.5°	17016.9	17148.4	17479.5	18010.4	18556.5	19148.1	19648.7	20022.8	20182.1	20422.3	20366.7
60°	16111.8	16321.7	16809.6	17590.8	18670.3	19904.0	21226.2	22518.1	23620.4	24452.1	23974.3
62.5°	13191.8	13464.9	14056.4	15057.6	16690.8	18665.2	21195.9	24249.9	27576.9	29584.3	28150.8
65°	8254.4	8537.5	9139.2	10211.1	12122.4	14577.2	18010.4	23071.8	29288.5	32314.6	29397.2
67.5°	3218.3	3372.5	3698.7	4383.8	5819.8	8004.1	11449.9	17193.9	24629.1	27281.1	24171.5
70°	1613.0	1628.1	1688.8	1815.2	2123.6	2758.2	4196.7	7971.2	14124.7	17059.9	13616.5
72.5°	1165.5	1168.0	1198.3	1254.0	1352.6	1494.1	1767.2	2439.7	4593.6	7020.6	4305.4
75°	892.4	902.5	920.2	950.6	1003.7	1074.5	1173.1	1405.6	1741.9	2020.0	1698.9
77.5°	687.7	707.9	720.5	748.3	781.2	829.2	857.0	945.5	1099.7	1157.9	1140.2
80°	523.3	541.0	568.8	591.6	614.3	637.1	627.0	667.4	748.3	796.4	771.1
82.5°	333.7	353.9	434.8	455.1	465.2	480.3	462.6	465.2	500.6	530.9	500.6
85°	214.9	227.5	275.6	300.8	303.4	313.5	305.9	288.2	288.2	262.9	295.8
87.5°	98.6	101.1	123.9	146.6	151.7	136.5	134.0	128.9	103.7	98.6	106.2
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°	6108.0	6108.0	6108.0	6108.0	6108.0	6108.0	6108.0	6108.0
2.5°	6105.5	6110.5	6113.0	6120.6	6123.1	6123.1	6125.7	6130.7
5°	6153.5	6161.1	6163.6	6173.7	6176.2	6173.7	6178.8	6181.3
7.5°	6239.4	6252.1	6257.1	6267.3	6259.7	6269.8	6272.3	6272.3
10°	6365.8	6378.5	6381.0	6391.1	6386.1	6391.1	6391.1	6386.1
12.5°	6532.7	6535.2	6527.6	6535.2	6525.1	6530.2	6522.6	6517.5
15°	6717.3	6709.7	6692.0	6692.0	6676.8	6679.3	6676.8	6674.3
17.5°	6896.8	6881.6	6868.9	6863.9	6851.3	6848.7	6841.1	6841.1
20°	7094.0	7086.4	7078.8	7068.7	7056.0	7043.4	7040.9	7045.9
22.5°	7331.6	7329.1	7329.1	7324.0	7306.3	7293.7	7286.1	7286.1
25°	7650.1	7627.4	7627.4	7624.9	7617.3	7609.7	7594.5	7602.1
27.5°	8009.1	7996.5	8006.6	8004.1	7996.5	7996.5	7986.4	7986.4
30°	8451.6	8446.5	8461.7	8449.0	8423.8	8421.2	8411.1	8398.5
32.5°	8962.2	8957.2	8979.9	8964.8	8924.3	8901.6	8881.3	8871.2
35°	9531.1	9533.6	9561.4	9551.3	9505.8	9490.6	9455.2	9450.2
37.5°	10153.0	10193.4	10241.5	10251.6	10213.7	10203.6	10165.6	10145.4
40°	10883.6	10936.7	11010.0	11027.7	10987.3	10979.7	10926.6	10898.8
42.5°	11662.3	11753.3	11844.3	11859.5	11819.0	11778.6	11728.0	11707.8
45°	12532.0	12640.7	12759.5	12789.8	12729.2	12681.1	12615.4	12615.4
47.5°	13507.8	13644.4	13778.3	13861.8	13806.2	13755.6	13677.2	13626.7
50°	14660.7	14847.7	15022.2	15108.1	15019.7	14923.6	14787.1	14741.6
52.5°	16106.8	16309.0	16460.7	16415.2	16278.7	16144.7	15995.5	15934.8
55°	17952.3	18020.6	18020.6	17848.6	17575.6	17350.6	17115.5	17037.1
57.5°	20260.5	19997.6	19593.1	19079.9	18435.2	17873.9	17494.7	17315.2
60°	22973.2	21709.1	20280.7	18877.6	17724.8	16774.2	16210.4	15952.5
62.5°	24780.8	21474.0	18612.1	16359.6	14701.1	13555.9	12777.2	12473.8
65°	23160.3	17909.3	14076.7	11381.7	9574.1	8408.6	7637.5	7354.4
67.5°	16963.8	11222.4	7495.9	5372.3	3936.3	3139.9	2823.9	2692.5
70°	7614.7	3951.5	2422.0	1891.0	1630.6	1496.7	1438.5	1418.3
72.5°	2295.5	1661.0	1400.6	1264.1	1160.4	1094.7	1046.6	1041.6
75°	1385.4	1152.8	1023.9	943.0	877.3	824.2	798.9	791.3
77.5°	968.3	846.9	786.3	728.1	677.5	637.1	614.3	596.6
80°	680.1	621.9	594.1	561.2	528.4	490.5	457.6	442.4
82.5°	455.1	442.4	442.4	422.2	394.4	359.0	293.3	278.1
85°	293.3	290.7	295.8	288.2	268.0	230.1	189.6	179.5
87.5°	136.5	139.0	154.2	151.7	146.6	121.4	96.1	91.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)