

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: P269448

Luminaire Tested: **GLEON-AF-07-LED-E1-5NQ-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269448  
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-07-LED-E1-5NQ-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 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: 41391 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G3

Input Watts (W): 448  
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

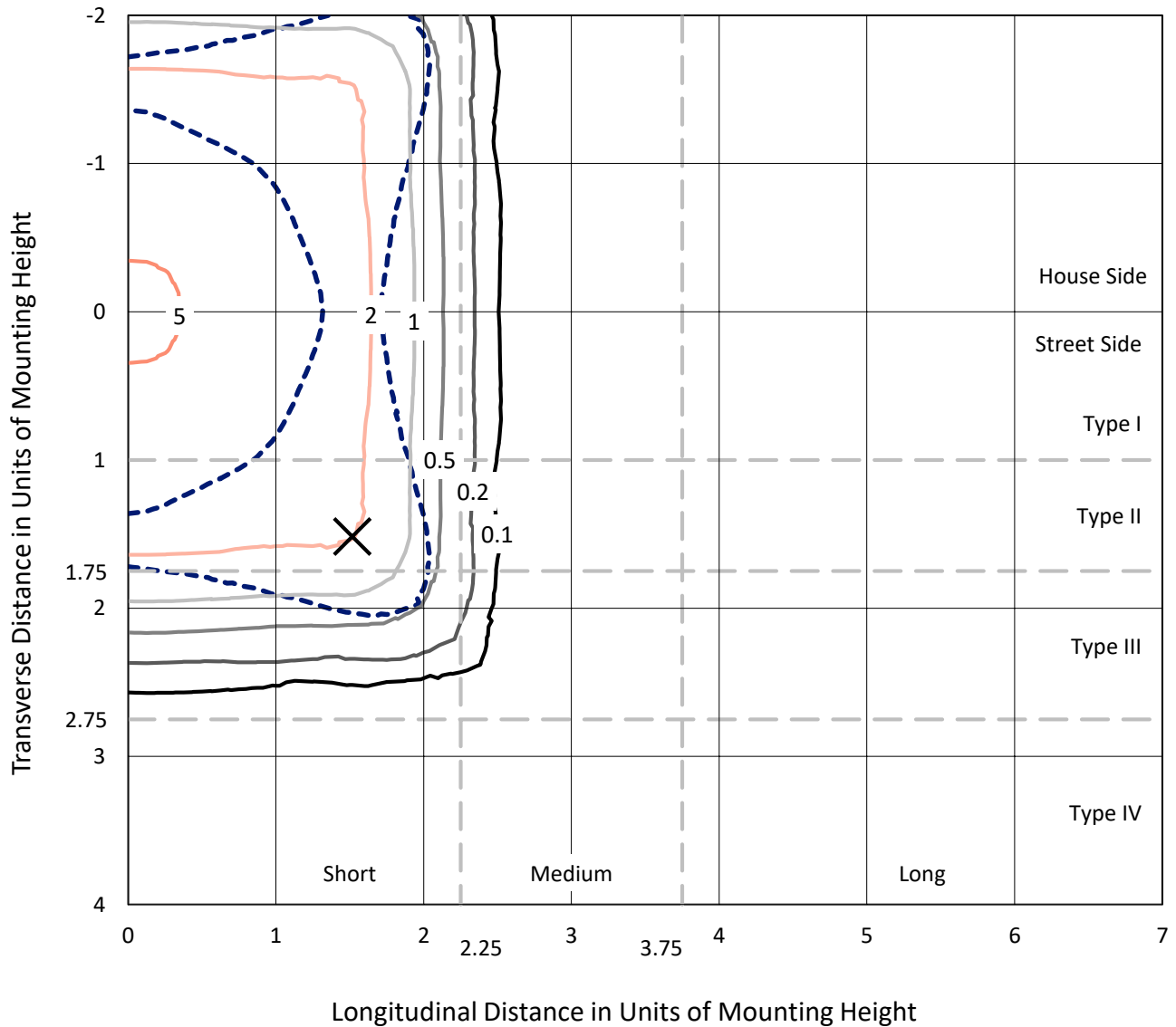


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

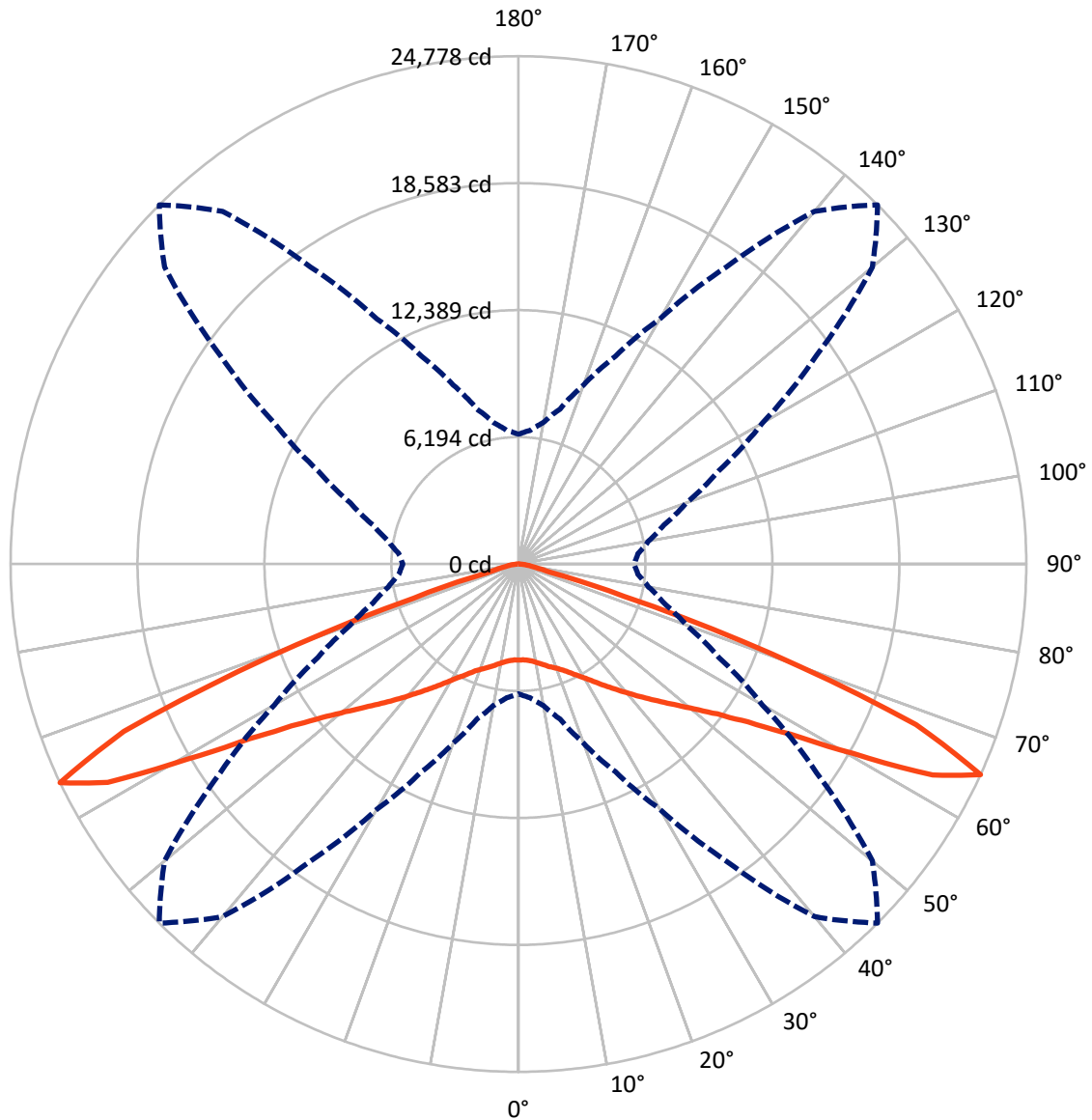


Based on 30 foot mounting height. Maximum calculated value = 5.2 fc  
 Type V - Short - Full Cutoff

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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	20695.5	0.0	20695.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20695.5	0.0	20695.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	41391.0	0.0	41391.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	456.5	1.1
10°-20°	1464.0	3.5
20°-30°	2737.4	6.6
30°-40°	4629.8	11.2
40°-50°	7570.2	18.3
50°-60°	12037.8	29.1
60°-70°	10881.4	26.3
70°-80°	1377.1	3.3
80°-90°	236.9	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°	41391.0	100.0
0°-180°	41391.0	100.0



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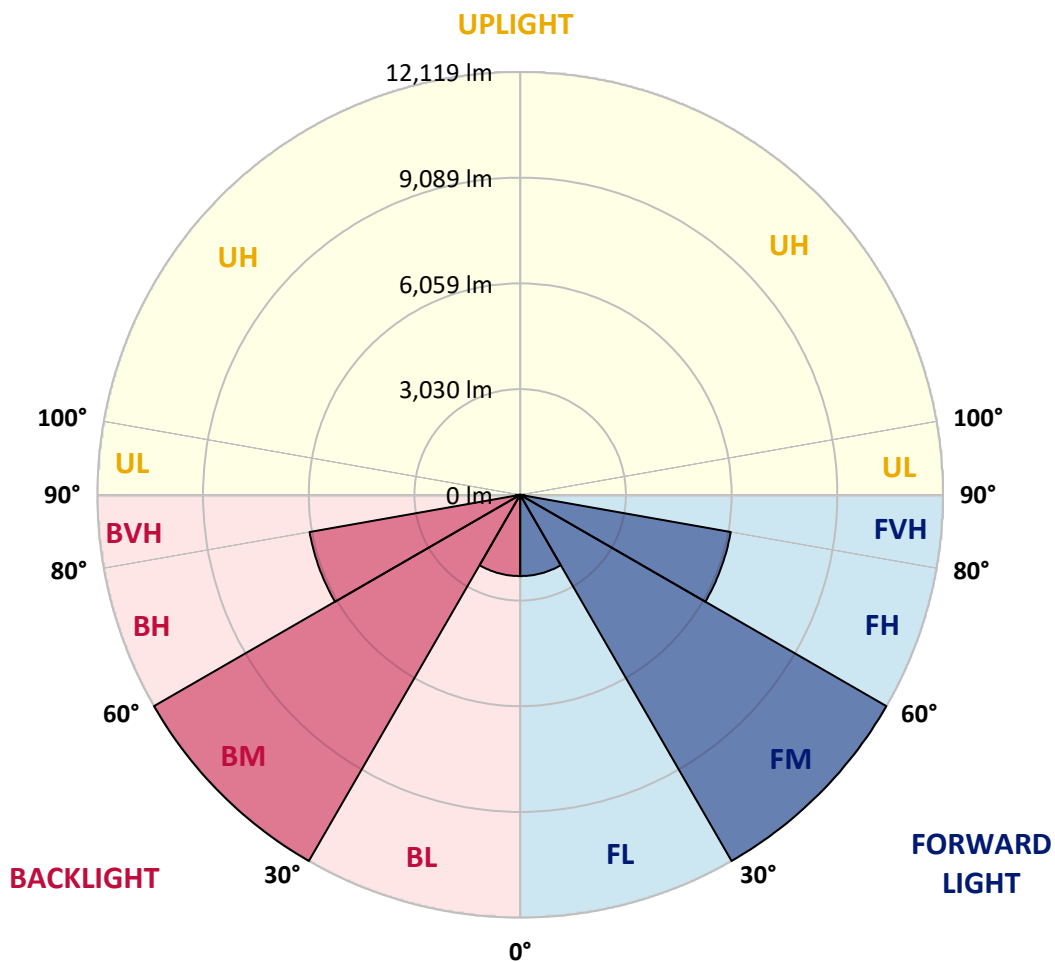
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2329.0	5.6			
FM (30°-60°)	12118.9	29.3			
FH (60°-80°)	6129.2	14.8			G3/7500
FVH (80°-90°)	118.4	0.3			G2/225
BL (0°-30°)	2329.0	5.6	B3/2500		
BM (30°-60°)	12118.9	29.3	B5		
BH (60°-80°)	6129.2	14.8	B5		G3/7500
BVH (80°-90°)	118.4	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°	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5
2.5°	4687.3	4691.2	4695.0	4691.2	4695.0	4689.2	4685.4	4691.2	4685.4	4679.5	4683.5
5°	4728.0	4729.9	4729.9	4724.1	4729.9	4726.1	4720.2	4728.0	4722.2	4716.5	4720.2
7.5°	4795.8	4803.5	4797.8	4792.0	4795.8	4792.0	4788.1	4790.0	4788.1	4782.2	4784.3
10°	4887.0	4892.8	4888.8	4887.0	4890.8	4888.8	4885.1	4883.0	4885.1	4879.2	4879.2
12.5°	4997.5	4995.6	4993.6	4995.6	5001.4	5001.4	4999.3	5001.4	5005.1	5007.2	5003.3
15°	5106.1	5109.9	5109.9	5109.9	5121.5	5131.2	5137.0	5140.9	5148.6	5150.6	5142.8
17.5°	5241.7	5241.7	5239.8	5241.7	5253.4	5268.9	5274.7	5282.5	5290.2	5296.0	5286.3
20°	5393.0	5396.7	5396.7	5400.7	5416.2	5433.6	5433.6	5437.5	5433.6	5437.5	5431.7
22.5°	5577.0	5588.6	5588.6	5590.6	5606.1	5627.4	5621.7	5627.4	5617.8	5625.5	5617.8
25°	5817.5	5834.9	5831.0	5831.0	5842.7	5856.2	5858.1	5869.7	5867.9	5877.5	5871.7
27.5°	6088.8	6116.0	6123.7	6121.8	6129.6	6143.1	6147.0	6160.5	6152.9	6160.5	6156.7
30°	6414.4	6426.1	6441.7	6447.5	6457.1	6470.8	6470.8	6472.6	6462.9	6474.7	6480.5
32.5°	6751.8	6773.1	6788.6	6823.5	6841.0	6850.7	6848.7	6852.6	6842.8	6858.4	6870.1
35°	7197.7	7213.2	7238.4	7265.5	7288.8	7286.8	7281.0	7283.0	7283.0	7296.6	7308.2
37.5°	7734.6	7738.4	7771.4	7810.3	7821.8	7810.3	7775.3	7767.6	7750.1	7767.6	7787.0
40°	8302.7	8316.1	8382.1	8407.2	8413.0	8391.7	8341.4	8312.2	8273.5	8294.9	8322.0
42.5°	8897.7	8924.9	8984.9	9029.6	9048.9	9035.3	8965.5	8921.0	8870.6	8882.3	8909.4
45°	9556.8	9589.8	9675.0	9717.8	9754.5	9733.2	9665.4	9597.5	9518.0	9523.9	9566.5
47.5°	10293.5	10326.3	10436.9	10508.6	10528.0	10524.2	10448.5	10355.5	10247.0	10243.1	10279.8
50°	11119.2	11152.2	11289.8	11400.3	11456.5	11450.8	11361.6	11229.7	11097.9	11099.8	11146.3
52.5°	11925.7	11966.3	12109.8	12299.9	12410.3	12489.8	12435.4	12311.5	12150.6	12154.3	12197.0
55°	12681.6	12749.6	12914.4	13172.0	13377.6	13600.5	13664.5	13660.6	13563.7	13590.8	13633.4
57.5°	13048.1	13148.9	13402.8	13809.9	14228.7	14682.2	15066.1	15352.9	15475.0	15659.3	15616.6
60°	12354.1	12514.9	12889.2	13488.1	14315.7	15261.8	16275.6	17266.2	18111.4	18749.2	18382.7
62.5°	10115.0	10324.5	10778.0	11545.7	12798.1	14311.9	16252.3	18594.0	21145.2	22684.3	21585.3
65°	6329.2	6546.3	7007.7	7829.5	9295.1	11177.4	13809.9	17690.7	22457.5	24777.9	22540.9
67.5°	2467.7	2586.0	2835.9	3361.4	4462.4	6137.3	8779.5	13183.7	18884.9	20918.3	18534.0
70°	1236.7	1248.4	1294.9	1391.8	1628.4	2114.9	3217.9	6112.1	10830.4	13080.9	10440.8
72.5°	893.6	895.6	918.8	961.5	1037.2	1145.7	1355.1	1870.6	3522.3	5383.3	3301.4
75°	684.2	692.1	705.6	728.9	769.6	823.8	899.5	1077.7	1335.6	1548.9	1302.7
77.5°	527.2	542.8	552.5	573.7	599.0	635.8	657.2	725.0	843.2	887.9	874.3
80°	401.3	414.8	436.1	453.6	471.0	488.5	480.8	511.8	573.7	610.6	591.3
82.5°	255.8	271.4	333.5	348.9	356.6	368.3	354.7	356.6	383.8	407.1	383.8
85°	164.7	174.5	211.3	230.7	232.7	240.3	234.5	221.1	221.1	201.6	226.8
87.5°	75.5	77.6	95.0	112.5	116.3	104.7	102.8	98.9	79.5	75.5	81.4
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°	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5	4683.5
2.5°	4681.4	4685.4	4687.3	4693.1	4695.0	4695.0	4697.0	4700.9
5°	4718.3	4724.1	4726.1	4733.8	4735.8	4733.8	4737.8	4739.6
7.5°	4784.3	4794.0	4797.8	4805.6	4799.7	4807.5	4809.4	4809.4
10°	4881.1	4890.8	4892.8	4900.6	4896.7	4900.6	4900.6	4896.7
12.5°	5009.0	5011.0	5005.1	5011.0	5003.3	5007.2	5001.4	4997.5
15°	5150.6	5144.9	5131.2	5131.2	5119.6	5121.5	5119.6	5117.6
17.5°	5288.2	5276.6	5266.9	5263.0	5253.4	5251.4	5245.7	5245.7
20°	5439.4	5433.6	5427.7	5420.1	5410.3	5400.7	5398.8	5402.5
22.5°	5621.7	5619.6	5619.6	5615.8	5602.3	5592.6	5586.7	5586.7
25°	5865.9	5848.4	5848.4	5846.4	5840.7	5834.9	5823.3	5829.1
27.5°	6141.2	6131.6	6139.2	6137.3	6131.6	6131.6	6123.7	6123.7
30°	6480.5	6476.5	6488.2	6478.4	6459.2	6457.1	6449.4	6439.7
32.5°	6871.9	6868.1	6885.6	6873.9	6842.8	6825.4	6810.0	6802.1
35°	7308.2	7310.0	7331.3	7323.6	7288.8	7277.1	7250.0	7246.1
37.5°	7785.0	7816.1	7852.9	7860.6	7831.6	7823.8	7794.8	7779.2
40°	8345.3	8385.9	8442.2	8455.7	8424.8	8418.9	8378.2	8356.9
42.5°	8942.3	9012.1	9081.9	9093.5	9062.6	9031.5	8992.8	8977.2
45°	9609.2	9692.5	9783.6	9806.8	9760.4	9723.6	9673.0	9673.0
47.5°	10357.4	10462.1	10564.8	10628.7	10586.2	10547.4	10487.4	10448.5
50°	11241.4	11384.8	11518.5	11584.5	11516.6	11443.0	11338.2	11303.5
52.5°	12350.2	12505.2	12621.5	12586.7	12481.9	12379.3	12264.9	12218.3
55°	13765.3	13817.5	13817.5	13685.8	13476.5	13303.9	13123.7	13063.5
57.5°	15535.2	15333.6	15023.3	14629.8	14135.5	13705.3	13414.4	13276.8
60°	17615.1	16646.0	15550.6	14474.7	13590.8	12861.9	12429.7	12232.0
62.5°	19001.2	16465.7	14271.3	12544.0	11272.4	10394.3	9797.2	9564.6
65°	17758.7	13732.3	10793.6	8727.2	7341.0	6447.5	5856.2	5639.1
67.5°	13007.4	8605.0	5747.6	4119.3	3018.2	2407.5	2165.4	2064.6
70°	5838.8	3029.9	1857.1	1450.0	1250.4	1147.6	1102.9	1087.5
72.5°	1760.1	1273.5	1074.0	969.2	889.9	839.3	802.5	798.7
75°	1062.2	883.9	785.1	723.0	672.7	632.0	612.6	606.7
77.5°	742.4	649.5	602.9	558.2	519.5	488.5	471.0	457.4
80°	521.5	476.9	455.5	430.4	405.1	376.1	350.9	339.2
82.5°	348.9	339.2	339.2	323.7	302.4	275.3	224.8	213.3
85°	224.8	222.9	226.8	221.1	205.5	176.3	145.3	137.6
87.5°	104.7	106.5	118.2	116.3	112.5	93.1	73.8	69.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)