

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: P300578

Luminaire Tested: **GLNA-AF-08-LED-E1-RW-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300578  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-08-LED-E1-RW-7030  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND  
Rectangular Wide Type I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47007.1 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 445  
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

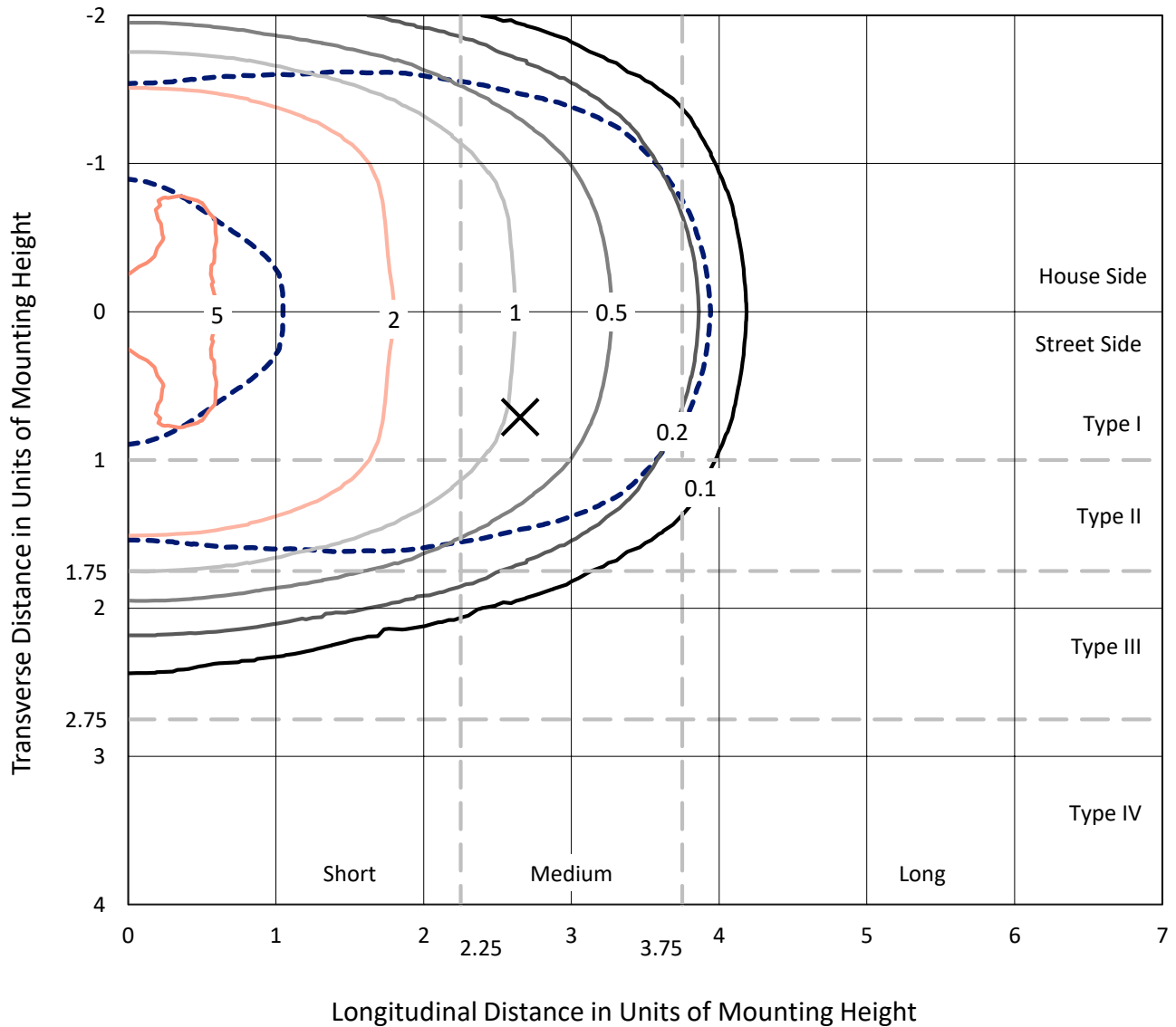


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### Iso-Footcandle Lines of Horizontal Illumination

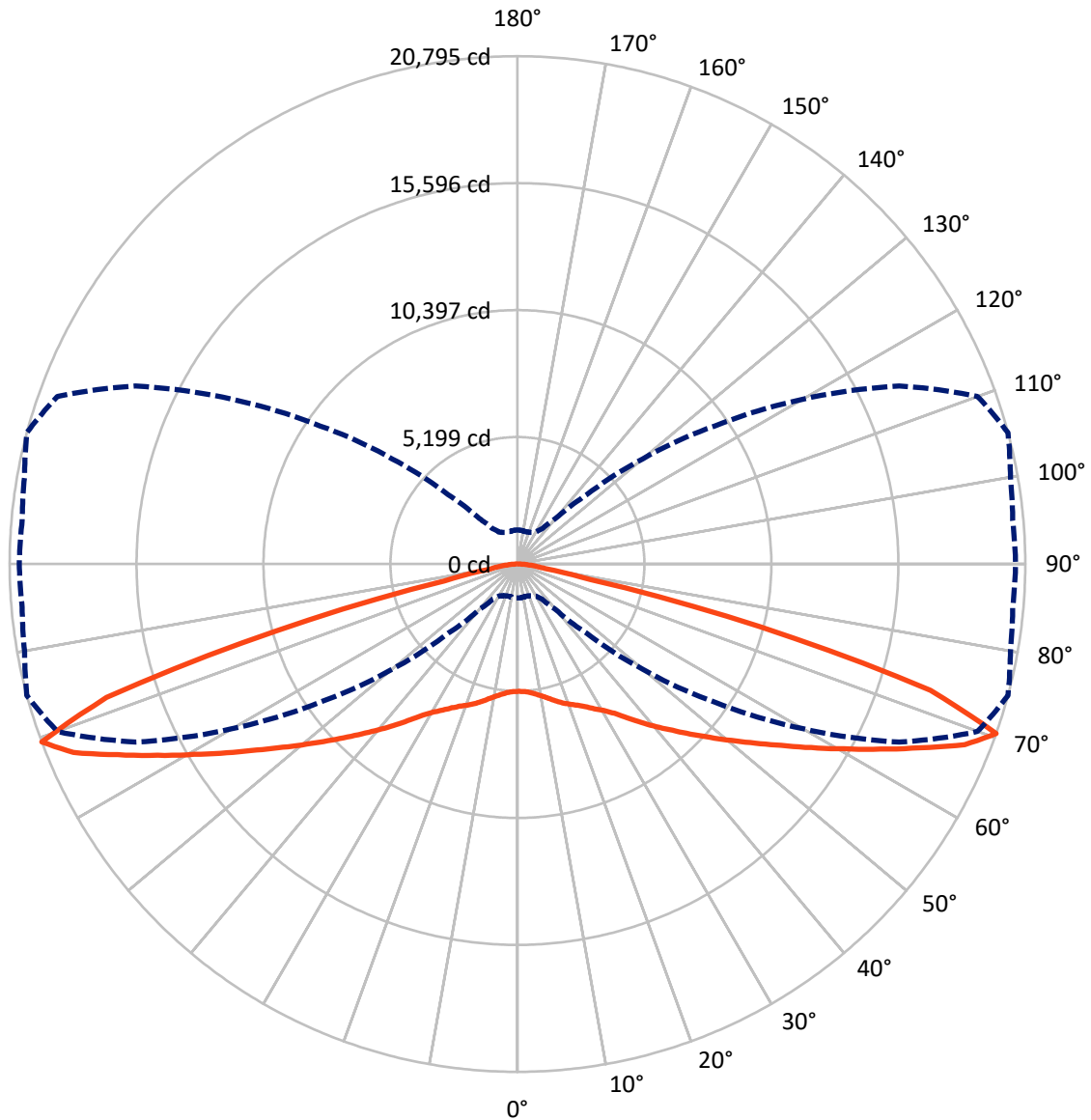
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23503.5	0.0	23503.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23503.5	0.0	23503.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	47007.1	0.0	47007.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	500.1	1.1
10°-20°	1553.8	3.3
20°-30°	2924.5	6.2
30°-40°	5178.8	11.0
40°-50°	8660.6	18.4
50°-60°	12068.6	25.7
60°-70°	11191.6	23.8
70°-80°	4460.2	9.5
80°-90°	468.8	1.0
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°	47007.1	100.0
0°-180°	47007.1	100.0



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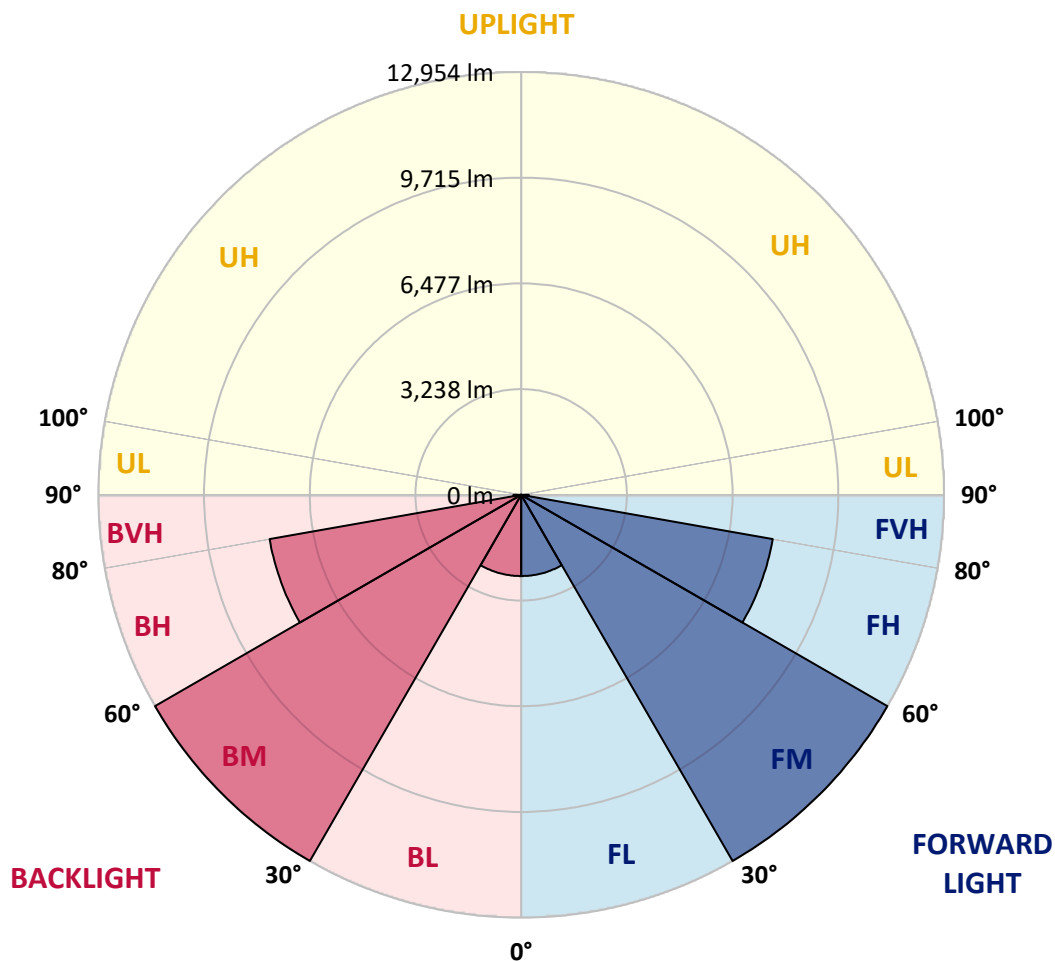
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2489.2	5.3			
FM	(30°-60°)	12954.0	27.6			
FH	(60°-80°)	7825.9	16.6			G4/12000
FVH	(80°-90°)	234.4	0.5			G3/500
BL	(0°-30°)	2489.2	5.3	B3/2500		
BM	(30°-60°)	12954.0	27.6	B5		
BH	(60°-80°)	7825.9	16.6	B5		G5
BVH	(80°-90°)	234.4	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2
2.5°	5205.3	5200.9	5205.3	5203.1	5207.5	5207.5	5212.0	5220.8	5220.8	5227.5	5225.3
5°	5154.2	5152.0	5158.6	5165.3	5172.0	5185.3	5198.6	5218.6	5234.2	5245.3	5256.4
7.5°	5054.2	5054.2	5063.1	5078.7	5094.2	5123.1	5154.2	5194.2	5234.2	5267.5	5296.4
10°	4972.0	4976.5	4987.6	5014.2	5040.9	5085.3	5127.5	5185.3	5240.8	5296.4	5340.8
12.5°	4923.1	4929.8	4949.8	4989.8	5034.2	5094.2	5158.6	5232.0	5294.2	5360.8	5405.2
15°	4938.7	4943.1	4972.0	5020.9	5078.7	5154.2	5240.8	5327.5	5400.8	5471.9	5531.9
17.5°	5025.3	5032.0	5065.3	5120.9	5180.9	5269.7	5363.0	5460.8	5551.9	5631.8	5705.2
20°	5180.9	5187.5	5229.7	5289.7	5360.8	5451.9	5545.2	5647.4	5749.6	5834.0	5916.2
22.5°	5400.8	5411.9	5451.9	5511.9	5591.9	5689.6	5800.7	5909.6	6007.3	6085.1	6158.4
25°	5689.6	5714.0	5751.8	5818.5	5902.9	5991.8	6111.7	6222.8	6316.1	6389.4	6442.7
27.5°	6098.4	6131.7	6160.6	6225.0	6307.2	6391.6	6511.6	6609.4	6698.2	6769.3	6809.3
30°	6640.5	6673.8	6702.7	6764.9	6840.4	6920.4	7033.7	7120.3	7175.9	7231.4	7229.2
32.5°	7298.1	7333.6	7344.7	7411.4	7489.1	7575.8	7678.0	7726.9	7771.3	7777.9	7738.0
35°	8033.4	8051.2	8095.6	8184.5	8273.4	8344.5	8442.2	8466.7	8466.7	8433.3	8344.5
37.5°	8839.9	8851.0	8913.2	9013.2	9104.3	9177.6	9244.2	9293.1	9268.7	9197.6	9048.7
40°	9724.1	9744.1	9833.0	9921.8	10024.0	10092.9	10164.0	10172.9	10148.4	10044.0	9841.8
42.5°	10568.3	10586.1	10675.0	10814.9	10948.2	11043.8	11110.4	11123.7	11046.0	10950.4	10699.4
45°	11294.8	11341.5	11457.0	11621.4	11814.7	11950.2	12041.3	12079.0	12010.2	11885.8	11594.7
47.5°	11870.2	11916.9	12081.3	12276.8	12516.7	12736.6	12887.7	12967.7	12949.9	12856.6	12538.9
50°	12292.3	12336.7	12514.5	12754.4	13034.3	13307.6	13565.3	13756.4	13823.0	13780.8	13489.8
52.5°	12341.2	12414.5	12623.3	12945.5	13309.8	13683.1	14049.6	14374.0	14593.9	14627.3	14411.8
55°	11659.1	11732.5	12021.3	12498.9	13041.0	13649.7	14236.2	14782.8	15216.0	15438.2	15324.8
57.5°	10050.7	10181.8	10486.1	11046.0	11843.5	12754.4	13689.7	14660.6	15542.6	16131.3	16244.6
60°	7702.4	7857.9	8164.5	8759.9	9648.6	10734.9	11983.5	13418.7	14976.1	16300.1	17091.0
62.5°	4940.9	5087.5	5409.7	5927.3	6651.6	7829.0	9168.7	10872.7	12965.5	15056.0	16940.0
65°	2539.3	2619.3	2788.2	3101.4	3665.7	4545.5	5747.4	7446.9	9839.6	12418.9	15142.7
67.5°	1608.5	1624.0	1661.8	1706.2	1850.6	2155.0	2714.8	3774.6	5742.9	8433.3	11621.4
70°	1390.7	1390.7	1373.0	1366.3	1384.1	1426.3	1512.9	1759.5	2423.8	4003.4	6702.7
72.5°	1273.0	1259.7	1228.6	1204.1	1199.7	1199.7	1217.5	1255.2	1361.9	1630.7	2623.8
75°	1173.0	1135.3	1093.0	1064.2	1053.1	1041.9	1039.7	1046.4	1068.6	1110.8	1253.0
77.5°	1050.8	1002.0	953.1	924.2	910.9	895.3	882.0	866.4	855.3	868.7	930.9
80°	904.2	848.7	810.9	793.1	779.8	757.6	728.7	702.0	677.6	673.2	710.9
82.5°	728.7	664.3	666.5	673.2	648.7	617.6	586.5	557.6	515.4	493.2	515.4
85°	588.7	555.4	539.9	582.1	546.5	499.9	451.0	399.9	333.2	279.9	304.4
87.5°	228.8	228.8	342.1	526.5	473.2	386.6	331.0	282.1	175.5	135.5	137.7
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°	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2	5214.2
2.5°	5223.1	5227.5	5225.3	5223.1	5223.1	5220.8	5223.1	5223.1
5°	5263.1	5274.2	5274.2	5278.6	5278.6	5280.8	5283.1	5280.8
7.5°	5323.0	5343.0	5356.4	5371.9	5374.1	5376.4	5380.8	5376.4
10°	5383.0	5423.0	5451.9	5480.8	5494.1	5498.6	5503.0	5503.0
12.5°	5458.6	5514.1	5565.2	5616.3	5640.7	5654.1	5654.1	5663.0
15°	5583.0	5638.5	5698.5	5767.4	5809.6	5831.8	5838.5	5838.5
17.5°	5758.5	5807.4	5858.5	5925.1	5978.4	6007.3	6014.0	6011.7
20°	5962.9	6009.5	6038.4	6080.6	6127.3	6160.6	6169.5	6169.5
22.5°	6196.1	6222.8	6227.2	6240.6	6278.3	6322.8	6342.8	6347.2
25°	6453.9	6460.5	6442.7	6442.7	6467.2	6509.4	6529.4	6531.6
27.5°	6787.1	6753.8	6709.3	6693.8	6709.3	6758.2	6782.7	6791.5
30°	7202.5	7122.6	7020.4	6964.8	6955.9	7020.4	7064.8	7071.5
32.5°	7678.0	7562.5	7426.9	7313.6	7284.7	7324.7	7378.1	7375.8
35°	8242.3	8104.5	7940.1	7795.7	7729.1	7769.1	7844.6	7853.5
37.5°	8893.2	8713.3	8524.4	8342.2	8237.8	8248.9	8328.9	8355.6
40°	9619.7	9386.4	9148.7	8904.3	8755.5	8726.6	8824.3	8839.9
42.5°	10397.3	10097.3	9797.4	9495.3	9304.2	9259.8	9373.1	9366.4
45°	11225.9	10843.8	10492.8	10159.5	9932.9	9866.3	9959.6	9959.6
47.5°	12116.8	11645.8	11228.2	10850.5	10603.9	10508.3	10597.2	10603.9
50°	13061.0	12561.1	12070.2	11650.3	11354.8	11232.6	11348.1	11365.9
52.5°	14000.8	13514.2	13018.8	12538.9	12181.2	12032.4	12165.7	12223.4
55°	14953.8	14476.2	14003.0	13534.2	13109.9	12934.4	13076.6	13149.9
57.5°	15960.2	15518.1	15067.1	14593.9	14185.1	13911.9	14063.0	14160.7
60°	17139.9	16762.2	16293.5	15771.4	15358.2	15080.5	15167.1	15253.8
62.5°	18073.0	18219.6	17822.0	17217.7	16686.7	16331.2	16415.7	16506.8
65°	17622.0	19126.1	19479.3	18868.4	18133.0	17579.8	17544.3	17590.9
67.5°	14729.4	17650.9	19781.5	20363.5	19748.1	18979.4	18837.3	18906.1
70°	9853.0	13492.0	17251.0	20050.3	20794.5	20496.8	20356.9	20399.1
72.5°	4732.1	7857.9	11703.6	15424.8	17690.9	18730.6	19063.9	19226.0
75°	1730.7	3119.2	5640.7	8500.0	10261.7	11879.1	12934.4	13365.4
77.5°	1044.2	1259.7	1801.7	2712.6	3072.5	3439.1	3296.9	3368.0
80°	773.1	873.1	988.6	1110.8	1150.8	1150.8	1106.4	1070.8
82.5°	542.1	606.5	662.0	728.7	746.5	713.1	586.5	466.5
85°	348.8	377.7	402.1	444.3	433.2	413.2	277.7	246.6
87.5°	160.0	182.2	191.1	211.1	202.2	193.3	137.7	115.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)