

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: P300590

Luminaire Tested: **GLNA-AF-10-LED-E1-RW-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300590  
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-10-LED-E1-RW-7030  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND  
Rectangular Wide Type I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

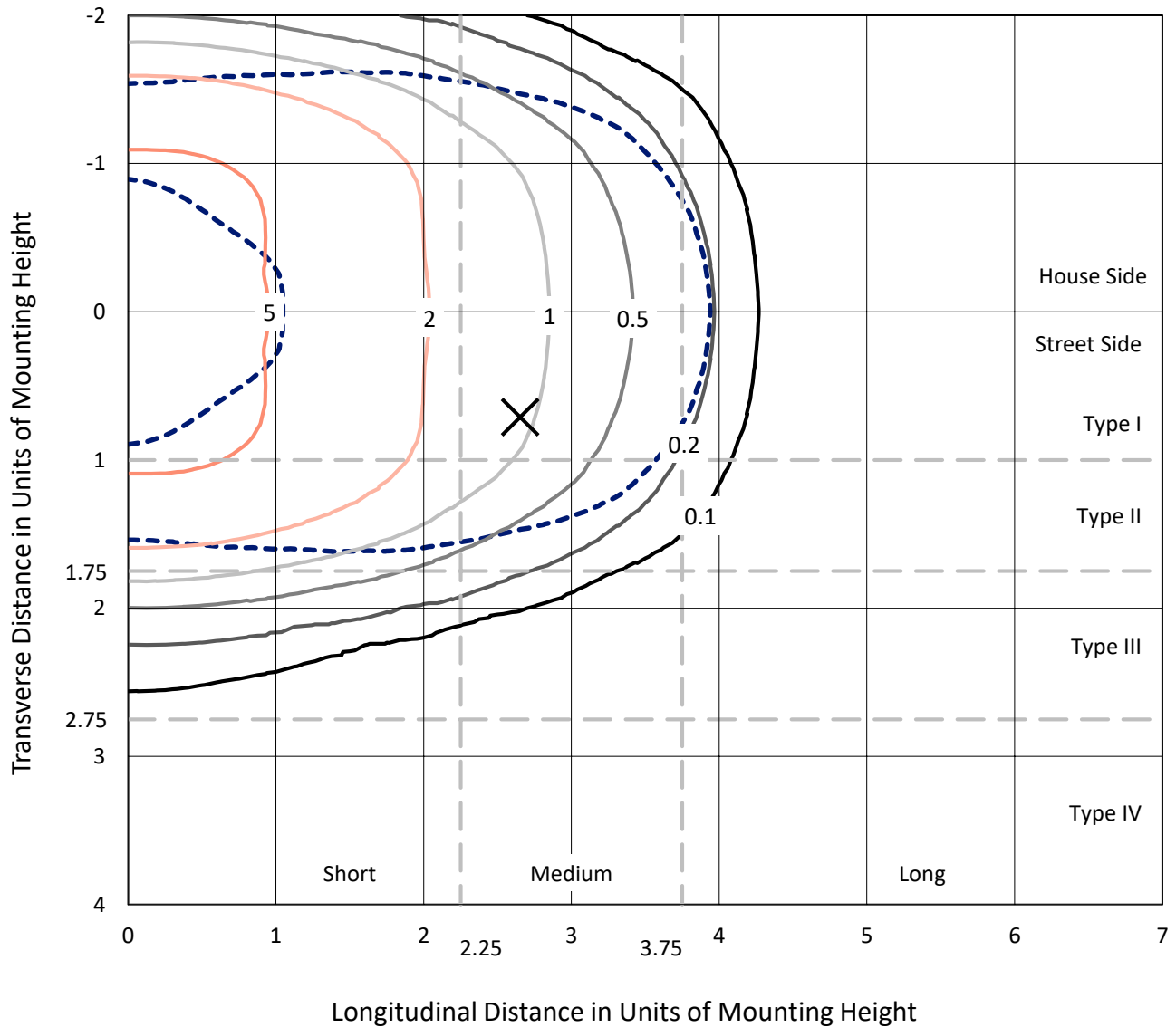
Lumens per Lamp: N/A  
Luminaire Lumens: 58055.5 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (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

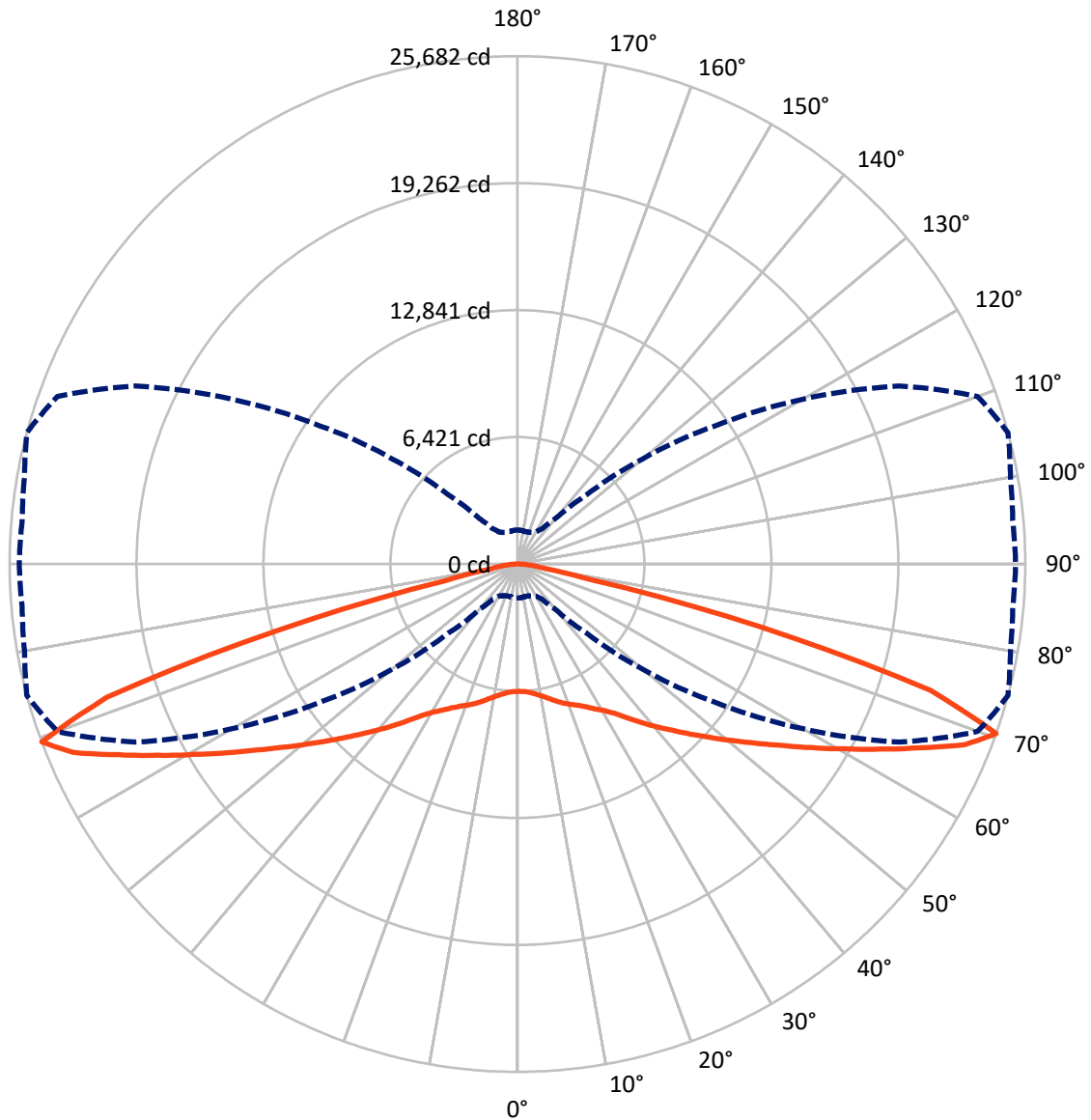
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 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	29027.7	0.0	29027.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	29027.7	0.0	29027.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	58055.5	0.0	58055.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	617.6	1.1
10°-20°	1919.0	3.3
20°-30°	3611.9	6.2
30°-40°	6396.0	11.0
40°-50°	10696.2	18.4
50°-60°	14905.1	25.7
60°-70°	13822.1	23.8
70°-80°	5508.5	9.5
80°-90°	579.0	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°	58055.5	100.0
0°-180°	58055.5	100.0



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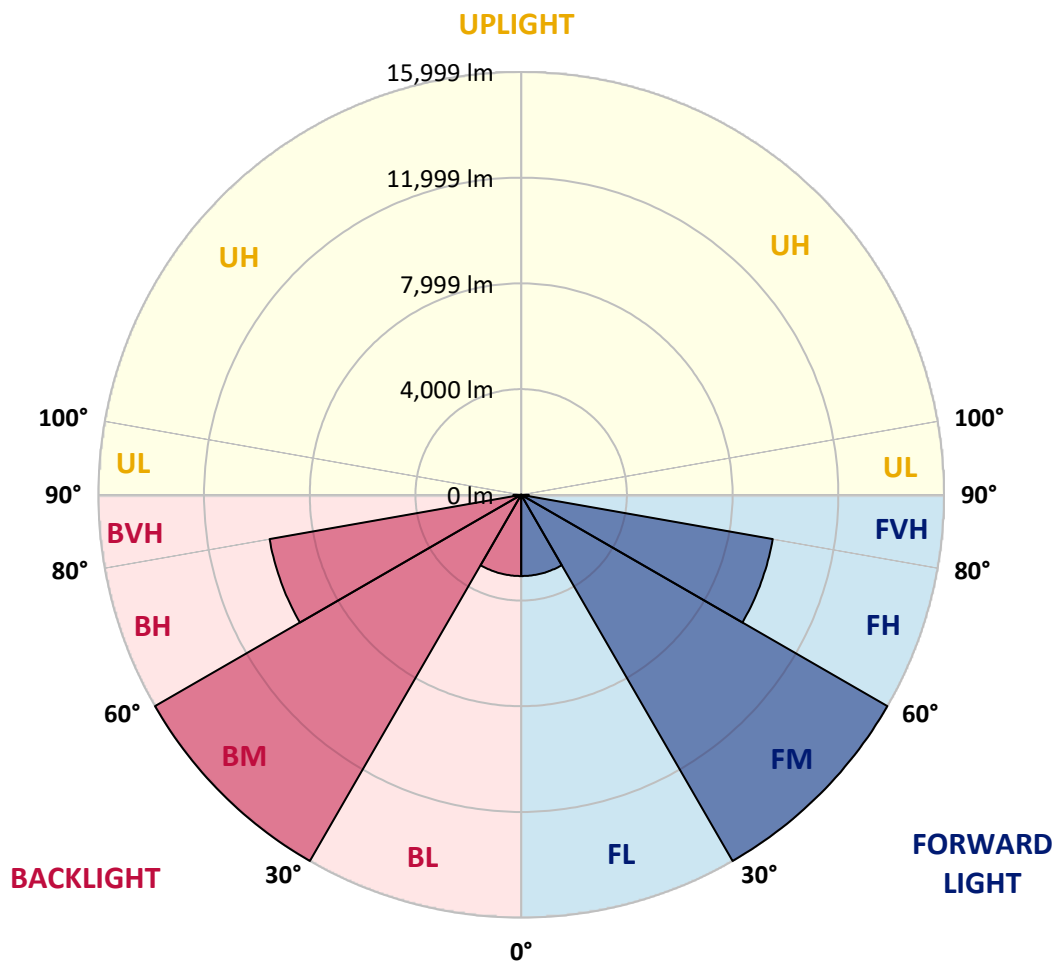
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3074.3	5.3			
FM	(30°-60°)	15998.6	27.6			
FH	(60°-80°)	9665.3	16.6			G4/12000
FVH	(80°-90°)	289.5	0.5			G3/500
BL	(0°-30°)	3074.3	5.3	B4/5000		
BM	(30°-60°)	15998.6	27.6	B5		
BH	(60°-80°)	9665.3	16.6	B5		G5
BVH	(80°-90°)	289.5	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°	6439.7	6439.7	6439.7	6439.7	6439.7	6439.7	6439.7	6439.7	6439.7	6439.7	6439.7
2.5°	6428.7	6423.2	6428.7	6426.0	6431.5	6431.5	6437.0	6447.9	6447.9	6456.2	6453.4
5°	6365.6	6362.9	6371.1	6379.3	6387.6	6404.0	6420.5	6445.2	6464.4	6478.1	6491.8
7.5°	6242.1	6242.1	6253.1	6272.3	6291.5	6327.2	6365.6	6415.0	6464.4	6505.6	6541.2
10°	6140.6	6146.1	6159.8	6192.8	6225.7	6280.6	6332.7	6404.0	6472.6	6541.2	6596.1
12.5°	6080.3	6088.5	6113.2	6162.6	6217.5	6291.5	6371.1	6461.7	6538.5	6620.8	6675.7
15°	6099.5	6105.0	6140.6	6201.0	6272.3	6365.6	6472.6	6579.6	6670.2	6758.0	6832.1
17.5°	6206.5	6214.7	6255.9	6324.5	6398.5	6508.3	6623.5	6744.3	6856.8	6955.5	7046.1
20°	6398.5	6406.8	6458.9	6533.0	6620.8	6733.3	6848.5	6974.7	7101.0	7205.2	7306.7
22.5°	6670.2	6683.9	6733.3	6807.4	6906.1	7026.9	7164.1	7298.5	7419.2	7515.3	7605.8
25°	7026.9	7057.1	7103.7	7186.0	7290.3	7400.0	7548.2	7685.4	7800.6	7891.2	7957.0
27.5°	7531.7	7572.9	7608.6	7688.1	7789.7	7893.9	8042.1	8162.8	8272.6	8360.4	8409.8
30°	8201.2	8242.4	8278.1	8354.9	8448.2	8546.9	8686.9	8793.9	8862.5	8931.1	8928.3
32.5°	9013.4	9057.3	9071.0	9153.3	9249.4	9356.4	9482.6	9542.9	9597.8	9606.1	9556.7
35°	9921.6	9943.5	9998.4	10108.2	10217.9	10305.7	10426.4	10456.6	10456.6	10415.5	10305.7
37.5°	10917.6	10931.3	11008.1	11131.6	11244.1	11334.6	11417.0	11477.3	11447.1	11359.3	11175.5
40°	12009.6	12034.3	12144.1	12253.8	12380.0	12465.1	12552.9	12563.9	12533.7	12404.7	12155.0
42.5°	13052.3	13074.2	13184.0	13356.8	13521.5	13639.4	13721.8	13738.2	13642.2	13524.2	13214.2
45°	13949.5	14007.1	14149.8	14352.8	14591.5	14758.9	14871.4	14918.1	14833.0	14679.3	14319.9
47.5°	14660.1	14717.8	14920.8	15162.3	15458.6	15730.2	15916.8	16015.6	15993.6	15878.4	15486.0
50°	15181.5	15236.3	15455.8	15752.2	16097.9	16435.4	16753.7	16989.6	17071.9	17019.8	16660.4
52.5°	15241.8	15332.4	15590.3	15988.1	16438.1	16899.1	17351.8	17752.4	18024.0	18065.2	17799.0
55°	14399.5	14490.0	14846.7	15436.6	16106.1	16857.9	17582.3	18257.3	18792.3	19066.7	18926.7
57.5°	12413.0	12574.8	12950.7	13642.2	14627.2	15752.2	16907.3	18106.4	19195.6	19922.7	20062.7
60°	9512.8	9704.8	10083.5	10818.8	11916.3	13258.1	14800.1	16572.6	18496.0	20131.3	21108.1
62.5°	6102.2	6283.3	6681.2	7320.5	8214.9	9669.2	11323.7	13428.2	16012.8	18594.7	20921.5
65°	3136.2	3234.9	3443.5	3830.3	4527.3	5613.8	7098.2	9197.2	12152.3	15337.9	18701.8
67.5°	1986.5	2005.7	2052.4	2107.2	2285.6	2661.5	3352.9	4661.7	7092.7	10415.5	14352.8
70°	1717.6	1717.6	1695.7	1687.4	1709.4	1761.5	1868.5	2173.1	2993.5	4944.3	8278.1
72.5°	1572.2	1555.7	1517.3	1487.1	1481.7	1481.7	1503.6	1550.2	1682.0	2014.0	3240.4
75°	1448.7	1402.1	1350.0	1314.3	1300.6	1286.8	1284.1	1292.3	1319.8	1371.9	1547.5
77.5°	1297.8	1237.5	1177.1	1141.4	1125.0	1105.8	1089.3	1070.1	1056.4	1072.8	1149.7
80°	1116.7	1048.1	1001.5	979.5	963.1	935.6	900.0	867.0	836.9	831.4	878.0
82.5°	900.0	820.4	823.1	831.4	801.2	762.8	724.4	688.7	636.6	609.1	636.6
85°	727.1	686.0	666.7	718.9	675.0	617.4	557.0	493.9	411.6	345.7	375.9
87.5°	282.6	282.6	422.5	650.3	584.4	477.4	408.8	348.5	216.8	167.4	170.1
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°	6439.7	6439.7	6439.7	6439.7	6439.7	6439.7	6439.7	6439.7
2.5°	6450.7	6456.2	6453.4	6450.7	6450.7	6447.9	6450.7	6450.7
5°	6500.1	6513.8	6513.8	6519.3	6519.3	6522.0	6524.8	6522.0
7.5°	6574.1	6598.8	6615.3	6634.5	6637.3	6640.0	6645.5	6640.0
10°	6648.2	6697.6	6733.3	6769.0	6785.4	6790.9	6796.4	6796.4
12.5°	6741.5	6810.1	6873.2	6936.3	6966.5	6983.0	6983.0	6994.0
15°	6895.2	6963.8	7037.9	7122.9	7175.0	7202.5	7210.7	7210.7
17.5°	7111.9	7172.3	7235.4	7317.7	7383.6	7419.2	7427.5	7424.7
20°	7364.4	7422.0	7457.7	7509.8	7567.4	7608.6	7619.5	7619.5
22.5°	7652.5	7685.4	7690.9	7707.3	7754.0	7808.9	7833.6	7839.0
25°	7970.7	7979.0	7957.0	7957.0	7987.2	8039.3	8064.0	8066.8
27.5°	8382.3	8341.2	8286.3	8267.1	8286.3	8346.6	8376.8	8387.8
30°	8895.4	8796.6	8670.4	8601.8	8590.8	8670.4	8725.3	8733.5
32.5°	9482.6	9339.9	9172.5	9032.6	8996.9	9046.3	9112.2	9109.4
35°	10179.5	10009.4	9806.3	9628.0	9545.7	9595.1	9688.4	9699.3
37.5°	10983.4	10761.2	10528.0	10303.0	10174.0	10187.7	10286.5	10319.4
40°	11880.7	11592.6	11299.0	10997.2	10813.3	10777.7	10898.4	10917.6
42.5°	12841.0	12470.6	12100.2	11727.0	11491.0	11436.2	11576.1	11567.9
45°	13864.4	13392.5	12959.0	12547.4	12267.5	12185.2	12300.5	12300.5
47.5°	14964.7	14383.0	13867.2	13400.7	13096.2	12978.2	13087.9	13096.2
50°	16130.8	15513.5	14907.1	14388.5	14023.6	13872.7	14015.3	14037.3
52.5°	17291.4	16690.5	16078.7	15486.0	15044.3	14860.4	15025.1	15096.4
55°	18468.5	17878.6	17294.2	16715.2	16191.2	15974.4	16150.0	16240.6
57.5°	19711.5	19165.5	18608.5	18024.0	17519.2	17181.7	17368.3	17489.0
60°	21168.4	20702.0	20123.0	19478.3	18967.9	18624.9	18731.9	18838.9
62.5°	22320.8	22501.9	22010.8	21264.5	20608.7	20169.7	20274.0	20386.4
65°	21763.8	23621.4	24057.7	23303.1	22394.9	21711.7	21667.8	21725.4
67.5°	18191.4	21799.5	24430.8	25149.7	24389.7	23440.3	23264.7	23349.8
70°	12168.8	16663.1	21305.6	24762.8	25682.0	25314.3	25141.5	25193.6
72.5°	5844.3	9704.8	14454.3	19050.2	21848.9	23133.0	23544.6	23744.9
75°	2137.4	3852.3	6966.5	10497.8	12673.6	14671.1	15974.4	16506.7
77.5°	1289.6	1555.7	2225.2	3350.2	3794.7	4247.4	4071.8	4159.6
80°	954.8	1078.3	1221.0	1371.9	1421.3	1421.3	1366.4	1322.5
82.5°	669.5	749.1	817.7	900.0	921.9	880.8	724.4	576.2
85°	430.8	466.4	496.6	548.8	535.0	510.3	343.0	304.6
87.5°	197.6	225.0	236.0	260.7	249.7	238.7	170.1	142.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)