

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: P300649

Luminaire Tested: **GLNA-AF-10-LED-E1-RW-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300649
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-7027-800
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42128.7 lumens
Efficiency: N/A
Efficacy: 100.5 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

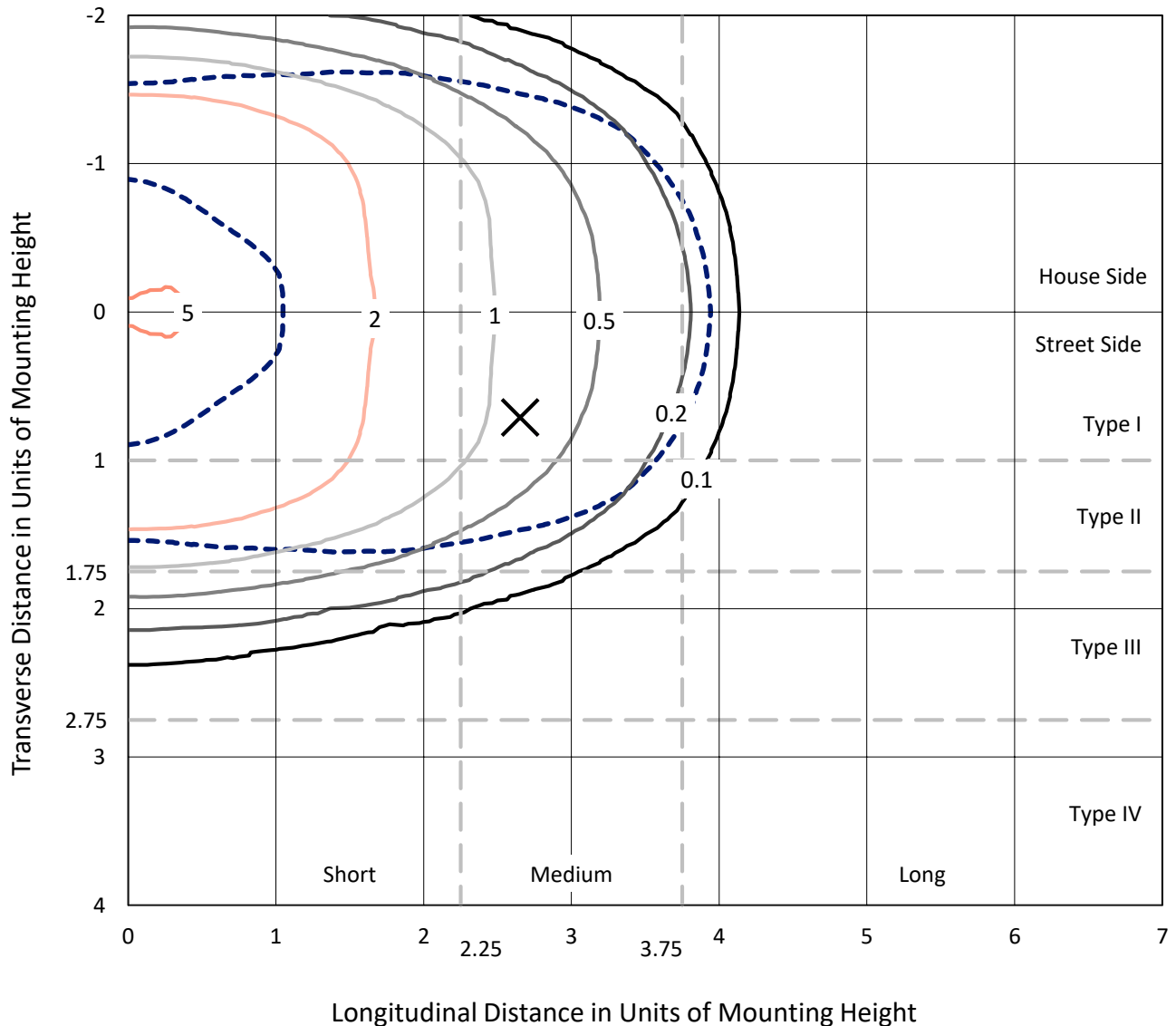
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

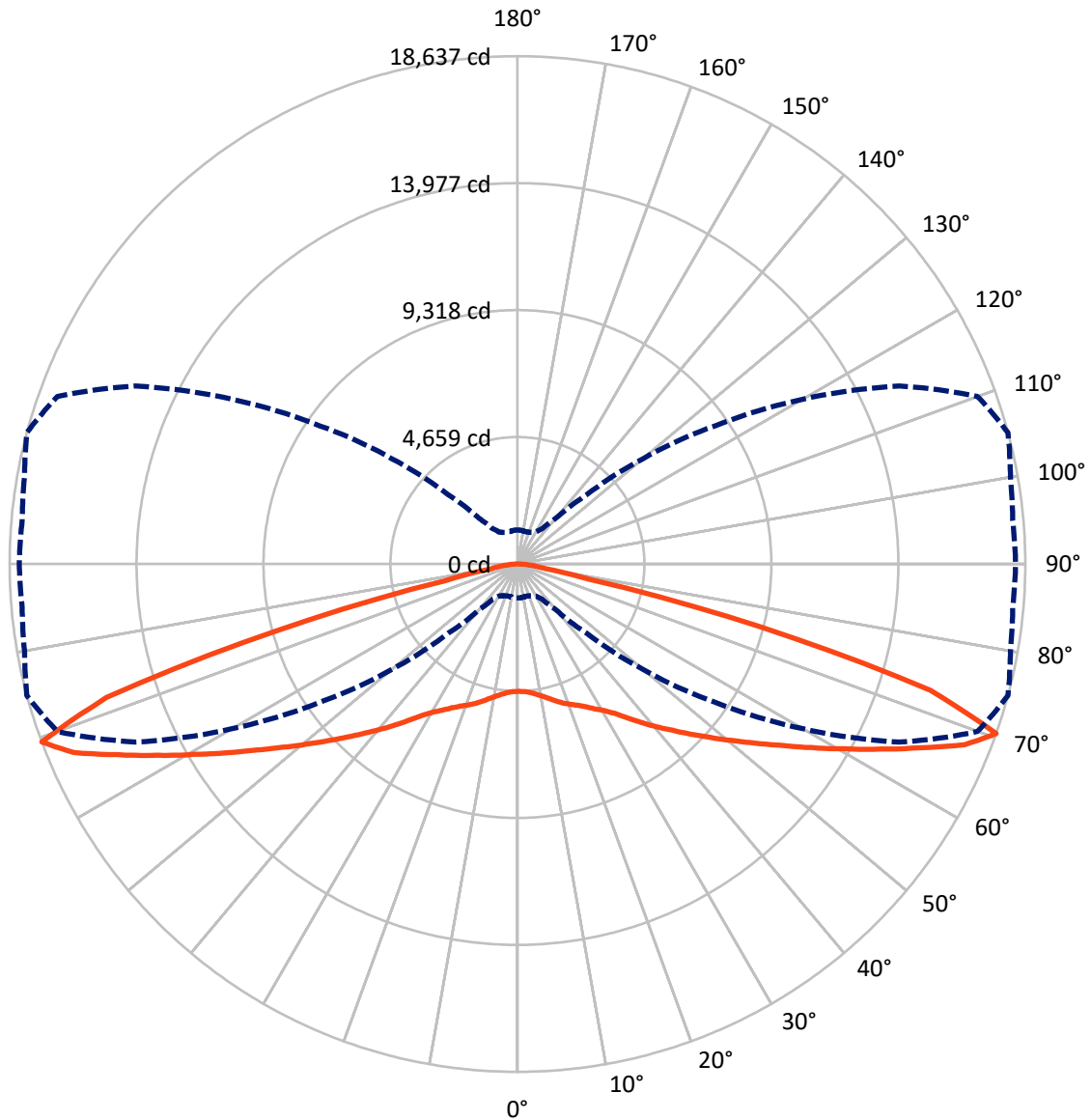
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type 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
House Side	Lumens	21064.3	0.0	21064.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21064.3	0.0	21064.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	42128.7	0.0	42128.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.2	1.1
10°-20°	1392.6	3.3
20°-30°	2621.0	6.2
30°-40°	4641.3	11.0
40°-50°	7761.8	18.4
50°-60°	10816.1	25.7
60°-70°	10030.2	23.8
70°-80°	3997.3	9.5
80°-90°	420.2	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°	42128.7	100.0
0°-180°	42128.7	100.0



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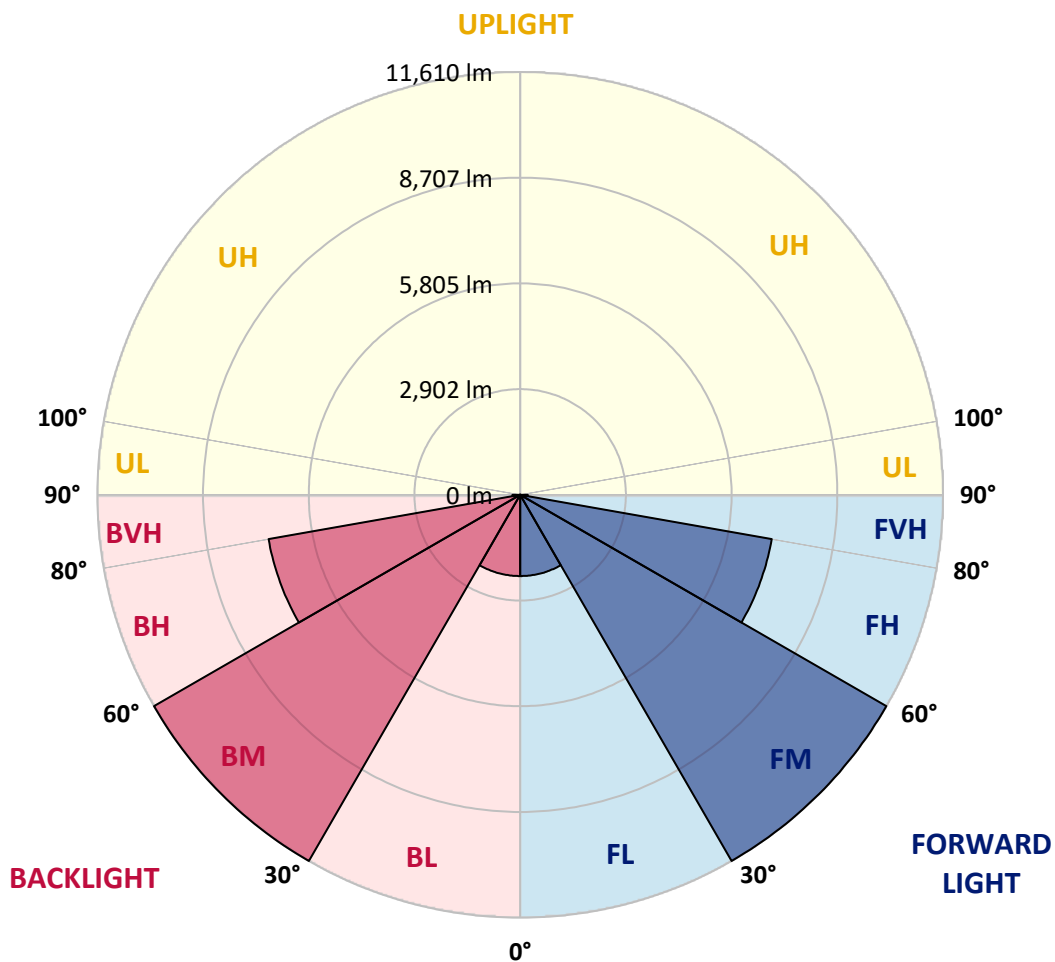
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2230.9	5.3			
FM	(30°-60°)	11609.6	27.6			
FH	(60°-80°)	7013.8	16.6			G3/7500
FVH	(80°-90°)	210.1	0.5			G2/225
BL	(0°-30°)	2230.9	5.3	B3/2500		
BM	(30°-60°)	11609.6	27.6	B5		
BH	(60°-80°)	7013.8	16.6	B5		G5
BVH	(80°-90°)	210.1	0.5			G2/225
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°	4673.1	4673.1	4673.1	4673.1	4673.1	4673.1	4673.1	4673.1	4673.1	4673.1	4673.1
2.5°	4665.1	4661.1	4665.1	4663.1	4667.1	4667.1	4671.1	4679.0	4679.0	4685.0	4683.0
5°	4619.3	4617.3	4623.3	4629.2	4635.2	4647.2	4659.1	4677.0	4691.0	4700.9	4710.9
7.5°	4529.7	4529.7	4537.7	4551.6	4565.5	4591.4	4619.3	4655.1	4691.0	4720.8	4746.7
10°	4456.0	4460.0	4470.0	4493.9	4517.7	4557.6	4595.4	4647.2	4696.9	4746.7	4786.5
12.5°	4412.2	4418.2	4436.1	4472.0	4511.8	4565.5	4623.3	4689.0	4744.7	4804.5	4844.3
15°	4426.2	4430.1	4456.0	4499.8	4551.6	4619.3	4696.9	4774.6	4840.3	4904.0	4957.8
17.5°	4503.8	4509.8	4539.6	4589.4	4643.2	4722.8	4806.5	4894.1	4975.7	5047.4	5113.1
20°	4643.2	4649.2	4687.0	4740.7	4804.5	4886.1	4969.7	5061.3	5152.9	5228.6	5302.2
22.5°	4840.3	4850.3	4886.1	4939.9	5011.5	5099.1	5198.7	5296.3	5383.9	5453.6	5519.3
25°	5099.1	5121.0	5154.9	5214.6	5290.3	5369.9	5477.4	5577.0	5660.6	5726.3	5774.1
27.5°	5465.5	5495.4	5521.2	5579.0	5652.7	5728.3	5835.8	5923.4	6003.1	6066.8	6102.6
30°	5951.3	5981.2	6007.1	6062.8	6130.5	6202.2	6303.7	6381.4	6431.2	6480.9	6479.0
32.5°	6540.7	6572.5	6582.5	6642.2	6711.9	6789.6	6881.2	6925.0	6964.8	6970.8	6934.9
35°	7199.7	7215.7	7255.5	7335.1	7414.8	7478.5	7566.1	7588.0	7588.0	7558.1	7478.5
37.5°	7922.5	7932.4	7988.2	8077.8	8159.4	8225.1	8284.9	8328.7	8306.8	8243.0	8109.6
40°	8714.9	8732.9	8812.5	8892.1	8983.7	9045.5	9109.2	9117.1	9095.2	9001.6	8820.5
42.5°	9471.5	9487.5	9567.1	9692.5	9812.0	9897.6	9957.4	9969.3	9899.6	9814.0	9589.0
45°	10122.6	10164.4	10268.0	10415.3	10588.5	10710.0	10791.6	10825.5	10763.7	10652.2	10391.4
47.5°	10638.3	10680.1	10827.5	11002.7	11217.7	11414.8	11550.2	11621.9	11606.0	11522.3	11237.6
50°	11016.6	11056.4	11215.7	11430.8	11681.6	11926.5	12157.5	12328.7	12388.5	12350.6	12089.8
52.5°	11060.4	11126.1	11313.3	11602.0	11928.5	12263.0	12591.6	12882.3	13079.4	13109.2	12916.1
55°	10449.2	10514.9	10773.7	11201.8	11687.6	12233.2	12758.8	13248.6	13636.9	13836.0	13734.4
57.5°	9007.6	9125.1	9397.9	9899.6	10614.4	11430.8	12269.0	13139.1	13929.6	14457.2	14558.7
60°	6903.1	7042.4	7317.2	7850.8	8647.2	9620.9	10739.9	12026.1	13421.8	14608.5	15317.3
62.5°	4428.1	4559.6	4848.3	5312.2	5961.3	7016.5	8217.2	9744.3	11619.9	13493.5	15181.9
65°	2275.8	2347.5	2498.8	2779.5	3285.3	4073.7	5150.9	6674.1	8818.5	11130.1	13571.2
67.5°	1441.5	1455.5	1489.3	1529.1	1658.6	1931.3	2433.1	3382.8	5146.9	7558.1	10415.3
70°	1246.4	1246.4	1230.5	1224.5	1240.4	1278.3	1355.9	1576.9	2172.3	3587.9	6007.1
72.5°	1140.9	1128.9	1101.1	1079.2	1075.2	1075.2	1091.1	1125.0	1220.5	1461.4	2351.5
75°	1051.3	1017.4	979.6	953.7	943.8	933.8	931.8	937.8	957.7	995.5	1123.0
77.5°	941.8	898.0	854.2	828.3	816.3	802.4	790.5	776.5	766.6	778.5	834.3
80°	810.4	760.6	726.7	710.8	698.9	679.0	653.1	629.2	607.3	603.3	637.1
82.5°	653.1	595.3	597.3	603.3	581.4	553.5	525.6	499.8	461.9	442.0	461.9
85°	527.6	497.8	483.8	521.7	489.8	448.0	404.2	358.4	298.7	250.9	272.8
87.5°	205.1	205.1	306.6	471.9	424.1	346.4	296.7	252.9	157.3	121.5	123.4
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°	4673.1	4673.1	4673.1	4673.1	4673.1	4673.1	4673.1	4673.1
2.5°	4681.0	4685.0	4683.0	4681.0	4681.0	4679.0	4681.0	4681.0
5°	4716.9	4726.8	4726.8	4730.8	4730.8	4732.8	4734.8	4732.8
7.5°	4770.6	4788.5	4800.5	4814.4	4816.4	4818.4	4822.4	4818.4
10°	4824.4	4860.2	4886.1	4912.0	4923.9	4927.9	4931.9	4931.9
12.5°	4892.1	4941.8	4987.6	5033.4	5055.3	5067.3	5067.3	5075.2
15°	5003.6	5053.3	5107.1	5168.8	5206.7	5226.6	5232.5	5232.5
17.5°	5160.9	5204.7	5250.5	5310.2	5358.0	5383.9	5389.8	5387.8
20°	5344.0	5385.9	5411.7	5449.6	5491.4	5521.2	5529.2	5529.2
22.5°	5553.1	5577.0	5581.0	5592.9	5626.8	5666.6	5684.5	5688.5
25°	5784.1	5790.0	5774.1	5774.1	5796.0	5833.8	5851.8	5853.8
27.5°	6082.7	6052.9	6013.0	5999.1	6013.0	6056.8	6078.7	6086.7
30°	6455.1	6383.4	6291.8	6242.0	6234.1	6291.8	6331.6	6337.6
32.5°	6881.2	6777.6	6656.2	6554.6	6528.7	6564.6	6612.4	6610.4
35°	7386.9	7263.4	7116.1	6986.7	6926.9	6962.8	7030.5	7038.4
37.5°	7970.3	7809.0	7639.8	7476.5	7382.9	7392.9	7464.5	7488.4
40°	8621.4	8412.3	8199.2	7980.2	7846.8	7820.9	7908.5	7922.5
42.5°	9318.2	9049.4	8780.6	8509.9	8338.6	8298.8	8400.3	8394.4
45°	10060.9	9718.4	9403.8	9105.2	8902.1	8842.4	8926.0	8926.0
47.5°	10859.3	10437.2	10062.9	9724.4	9503.4	9417.8	9497.4	9503.4
50°	11705.5	11257.5	10817.5	10441.2	10176.4	10066.9	10170.4	10186.3
52.5°	12547.7	12111.7	11667.7	11237.6	10917.1	10783.7	10903.1	10954.9
55°	13401.9	12973.8	12549.7	12129.6	11749.3	11592.0	11719.5	11785.2
57.5°	14303.9	13907.7	13503.5	13079.4	12713.0	12468.1	12603.5	12691.1
60°	15361.1	15022.7	14602.5	14134.6	13764.3	13515.4	13593.1	13670.7
62.5°	16197.4	16328.8	15972.4	15430.8	14955.0	14636.4	14712.0	14793.7
65°	15793.2	17141.2	17457.7	16910.2	16251.1	15755.4	15723.5	15765.3
67.5°	13200.8	15819.1	17728.5	18250.2	17698.7	17009.7	16882.3	16944.0
70°	8830.4	12091.8	15460.7	17969.4	18636.5	18369.7	18244.2	18282.0
72.5°	4241.0	7042.4	10489.0	13824.0	15854.9	16786.7	17085.4	17230.8
75°	1551.0	2795.5	5055.3	7617.9	9196.8	10646.3	11592.0	11978.3
77.5°	935.8	1128.9	1614.8	2431.1	2753.7	3082.2	2954.8	3018.5
80°	692.9	782.5	886.0	995.5	1031.4	1031.4	991.6	959.7
82.5°	485.8	543.6	593.3	653.1	669.0	639.1	525.6	418.1
85°	312.6	338.5	360.4	398.2	388.3	370.3	248.9	221.0
87.5°	143.4	163.3	171.2	189.2	181.2	173.2	123.4	103.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)