

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: P299372

Luminaire Tested: **GLNA-AF-07-LED-E1-5NQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299372
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: GLNA-AF-07-LED-E1-5NQ-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41864.6 lumens
Efficiency: N/A
Efficacy: 107.1 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

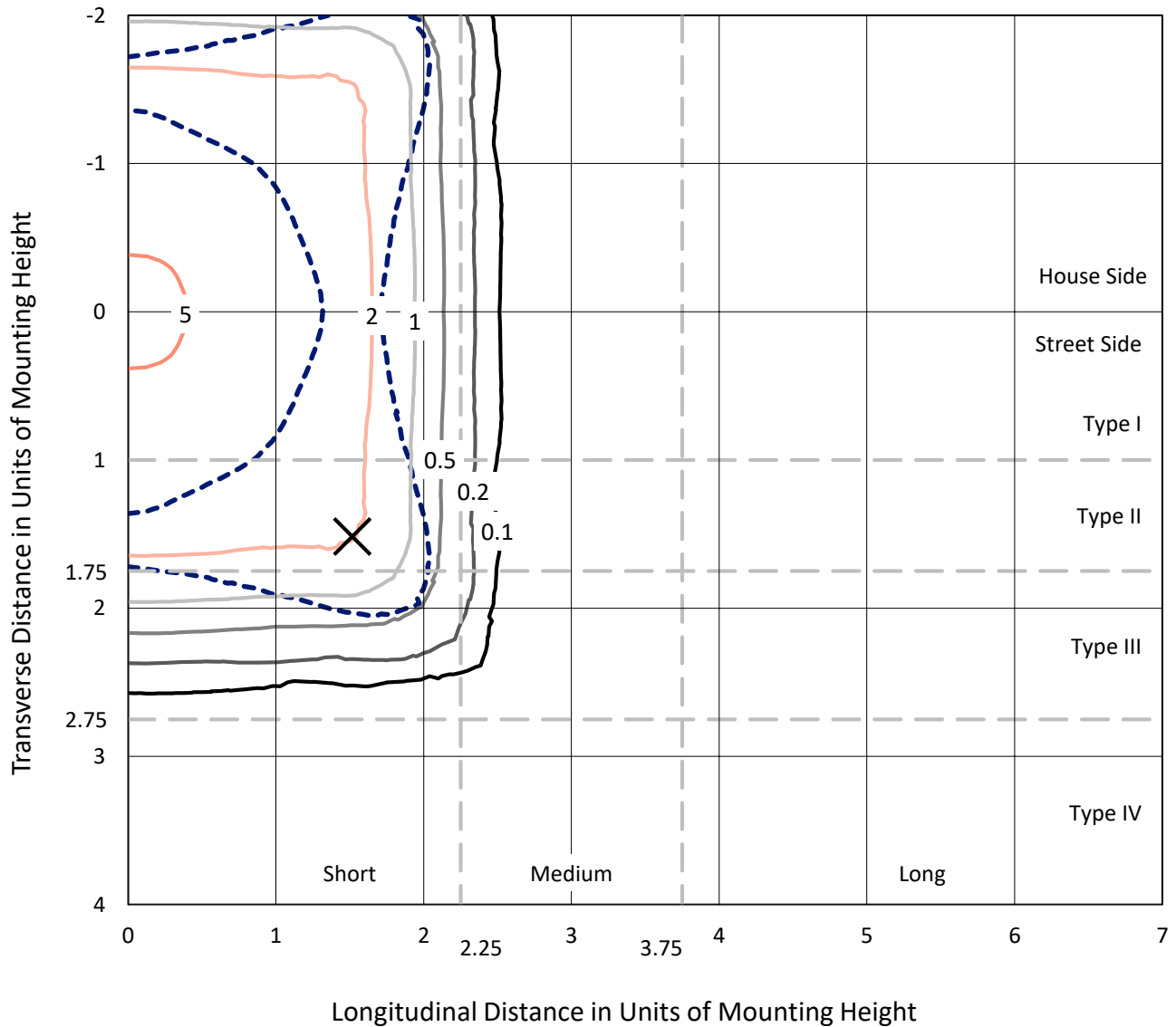
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

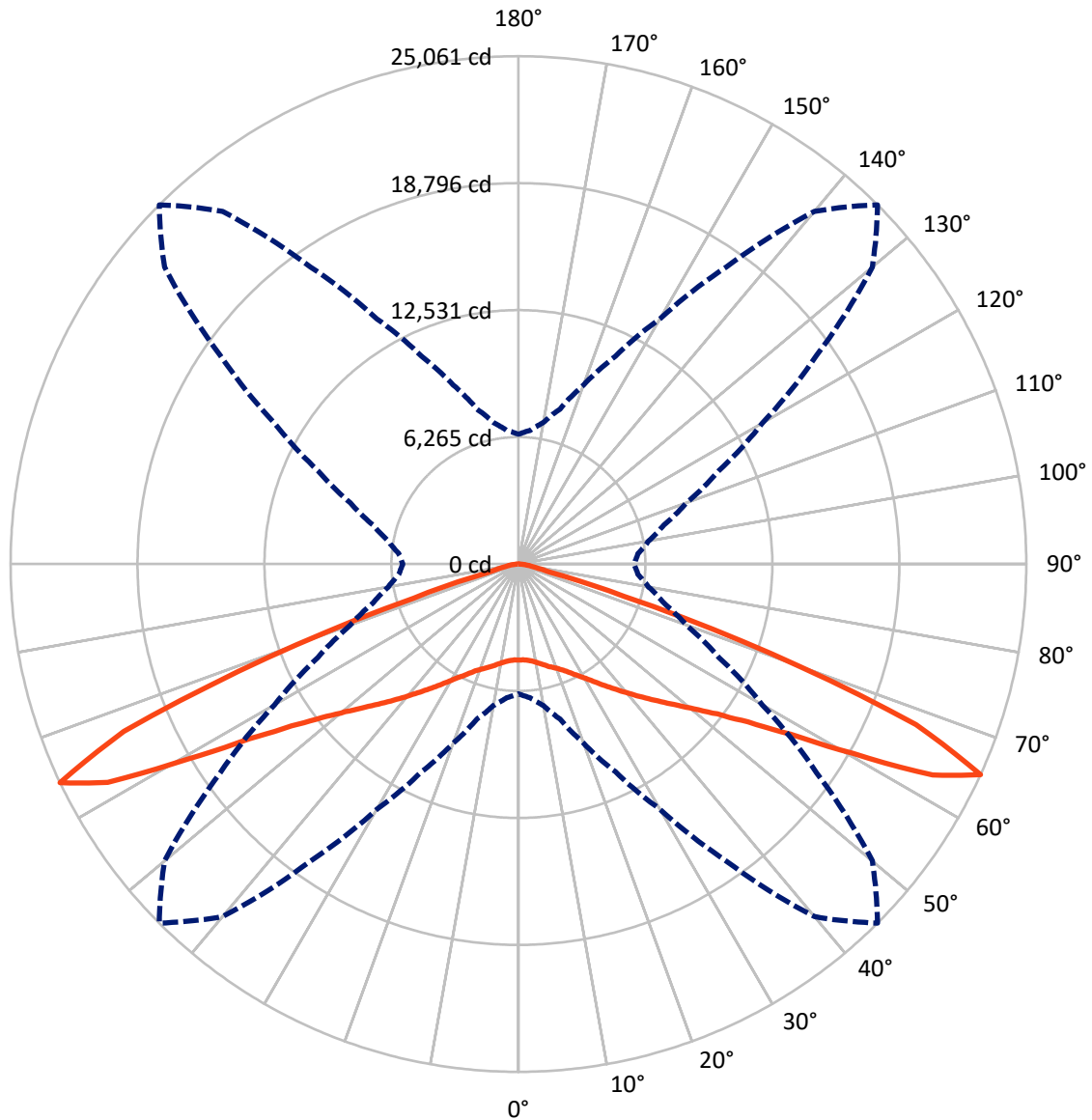
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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
House Side	Lumens	20932.3	0.0	20932.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20932.3	0.0	20932.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	41864.6	0.0	41864.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.7	1.1
10°-20°	1480.8	3.5
20°-30°	2768.8	6.6
30°-40°	4682.8	11.2
40°-50°	7656.8	18.3
50°-60°	12175.5	29.1
60°-70°	11005.9	26.3
70°-80°	1392.9	3.3
80°-90°	239.6	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°	41864.6	100.0
0°-180°	41864.6	100.0



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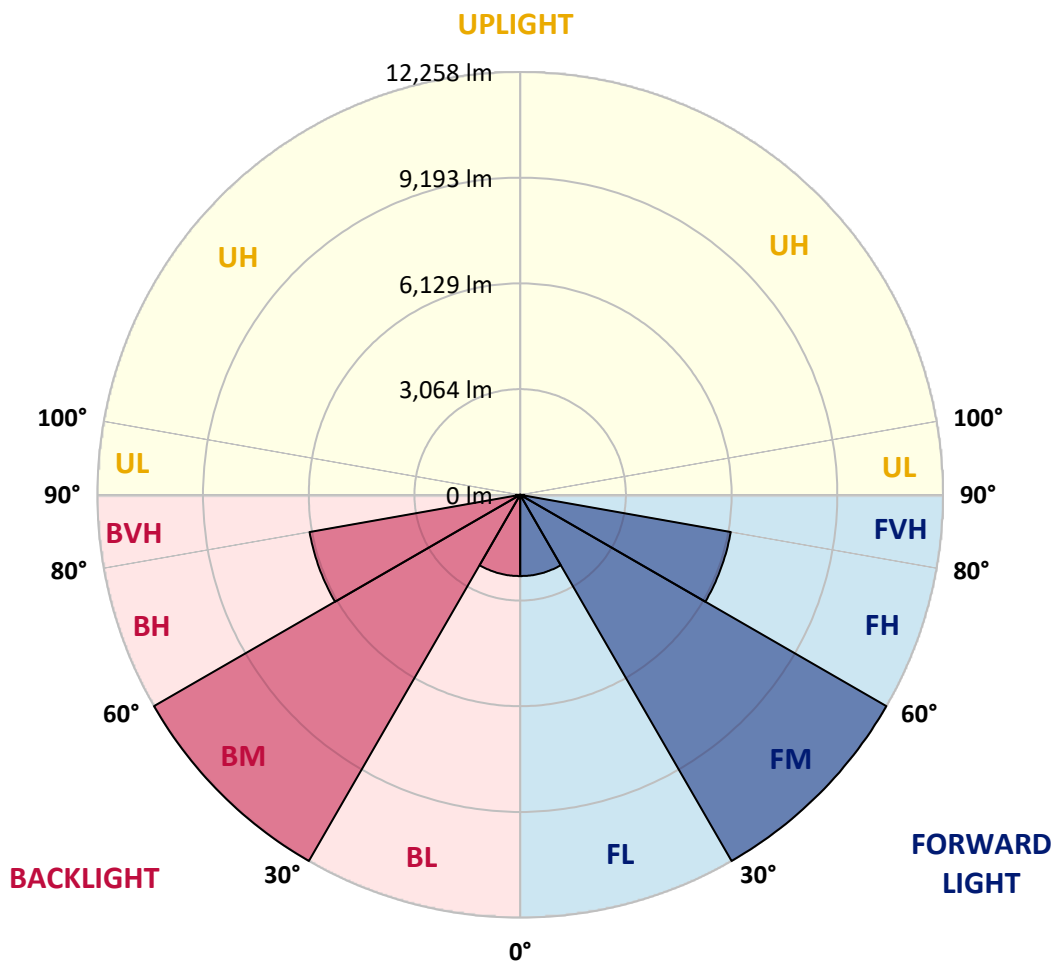
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2355.6	5.6			
FM	(30°-60°)	12257.5	29.3			
FH	(60°-80°)	6199.4	14.8			G3/7500
FVH	(80°-90°)	119.8	0.3			G2/225
BL	(0°-30°)	2355.6	5.6	B3/2500		
BM	(30°-60°)	12257.5	29.3	B5		
BH	(60°-80°)	6199.4	14.8	B5		G3/7500
BVH	(80°-90°)	119.8	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°	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0
2.5°	4740.9	4744.8	4748.8	4744.8	4748.8	4742.9	4739.0	4744.8	4739.0	4733.1	4737.0
5°	4782.1	4784.1	4784.1	4778.2	4784.1	4780.1	4774.3	4782.1	4776.2	4770.3	4774.3
7.5°	4850.7	4858.6	4852.7	4846.8	4850.7	4846.8	4842.9	4844.8	4842.9	4837.0	4839.0
10°	4942.9	4948.8	4944.8	4942.9	4946.8	4944.8	4940.9	4939.0	4940.9	4935.0	4935.0
12.5°	5054.6	5052.7	5050.7	5052.7	5058.6	5058.6	5056.6	5058.6	5062.5	5064.4	5060.5
15°	5164.4	5168.4	5168.4	5168.4	5180.1	5189.9	5195.8	5199.7	5207.6	5209.5	5201.7
17.5°	5301.7	5301.7	5299.7	5301.7	5313.4	5329.1	5335.0	5342.9	5350.7	5356.6	5346.8
20°	5454.6	5458.5	5458.5	5462.5	5478.1	5495.8	5495.8	5499.7	5495.8	5499.7	5493.8
22.5°	5640.9	5652.6	5652.6	5654.6	5670.3	5691.9	5686.0	5691.9	5682.1	5689.9	5682.1
25°	5884.0	5901.6	5897.7	5897.7	5909.5	5923.2	5925.2	5936.9	5935.0	5944.8	5938.9
27.5°	6158.5	6185.9	6193.8	6191.8	6199.7	6213.4	6217.3	6231.0	6223.2	6231.0	6227.1
30°	6487.9	6499.7	6515.3	6521.2	6531.0	6544.8	6544.8	6546.7	6536.9	6548.7	6554.6
32.5°	6829.1	6850.6	6866.3	6901.6	6919.2	6929.0	6927.1	6931.0	6921.2	6936.9	6948.7
35°	7280.0	7295.7	7321.2	7348.6	7372.2	7370.2	7364.3	7366.3	7366.3	7380.0	7391.8
37.5°	7823.1	7827.0	7860.4	7899.6	7911.3	7899.6	7864.3	7856.4	7838.8	7856.4	7876.1
40°	8397.6	8411.3	8478.0	8503.5	8509.4	8487.8	8436.8	8407.4	8368.2	8389.8	8417.2
42.5°	8999.5	9027.0	9087.8	9132.8	9152.5	9138.7	9068.1	9023.1	8972.1	8983.8	9011.3
45°	9666.2	9699.5	9785.8	9828.9	9866.1	9844.6	9776.0	9707.3	9626.9	9632.8	9676.0
47.5°	10411.2	10444.5	10556.3	10628.8	10648.5	10644.5	10568.1	10474.0	10364.2	10360.2	10397.5
50°	11246.5	11279.8	11419.0	11530.8	11587.6	11581.7	11491.5	11358.2	11224.9	11226.9	11273.9
52.5°	12062.1	12103.3	12248.4	12440.5	12552.3	12632.7	12577.8	12452.3	12289.5	12293.5	12336.6
55°	12826.8	12895.4	13062.1	13322.8	13530.7	13756.1	13820.8	13816.9	13718.9	13746.3	13789.5
57.5°	13197.3	13299.3	13556.1	13967.9	14391.4	14850.2	15238.4	15528.6	15652.1	15838.4	15795.2
60°	12495.4	12658.2	13036.6	13642.4	14479.6	15436.4	16461.9	17463.8	18318.6	18963.7	18593.1
62.5°	10230.8	10442.6	10901.4	11677.8	12944.4	14475.7	16438.3	18806.8	21387.1	22943.9	21832.2
65°	6401.6	6621.2	7087.9	7919.2	9401.5	11305.3	13967.9	17893.2	22714.5	25061.4	22798.8
67.5°	2495.9	2615.5	2868.5	3399.8	4513.5	6207.5	8879.9	13334.6	19100.9	21157.7	18746.1
70°	1250.9	1262.7	1309.7	1407.8	1647.0	2139.1	3254.7	6182.0	10954.3	13230.7	10560.2
72.5°	903.9	905.8	929.4	972.5	1049.0	1158.8	1370.5	1892.1	3562.6	5444.8	3339.0
75°	692.1	700.0	713.7	737.2	778.4	833.3	909.8	1090.1	1350.9	1566.6	1317.6
77.5°	533.3	549.0	558.8	580.4	605.9	643.1	664.7	733.3	852.9	898.0	884.3
80°	405.9	419.6	441.2	458.8	476.4	494.1	486.2	517.6	580.4	617.6	598.0
82.5°	258.8	274.5	337.2	352.9	360.8	372.5	358.8	360.8	388.2	411.7	388.2
85°	166.7	176.5	213.7	233.3	235.3	243.1	237.2	223.5	223.5	203.9	229.4
87.5°	76.5	78.4	96.1	113.7	117.6	105.9	103.9	100.0	80.4	76.5	82.3
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°	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0	4737.0
2.5°	4735.0	4739.0	4740.9	4746.8	4748.8	4748.8	4750.7	4754.7
5°	4772.3	4778.2	4780.1	4788.0	4789.9	4788.0	4791.9	4793.9
7.5°	4839.0	4848.8	4852.7	4860.5	4854.6	4862.5	4864.4	4864.4
10°	4937.0	4946.8	4948.8	4956.6	4952.7	4956.6	4956.6	4952.7
12.5°	5066.4	5068.4	5062.5	5068.4	5060.5	5064.4	5058.6	5054.6
15°	5209.5	5203.6	5189.9	5189.9	5178.2	5180.1	5178.2	5176.2
17.5°	5348.7	5337.0	5327.2	5323.2	5313.4	5311.5	5305.6	5305.6
20°	5501.7	5495.8	5489.9	5482.1	5472.3	5462.5	5460.5	5464.4
22.5°	5686.0	5684.0	5684.0	5680.1	5666.4	5656.6	5650.7	5650.7
25°	5933.0	5915.4	5915.4	5913.4	5907.5	5901.6	5889.9	5895.8
27.5°	6211.4	6201.6	6209.5	6207.5	6201.6	6201.6	6193.8	6193.8
30°	6554.6	6550.6	6562.4	6552.6	6533.0	6531.0	6523.2	6513.4
32.5°	6950.6	6946.7	6964.3	6952.6	6921.2	6903.6	6887.9	6880.0
35°	7391.8	7393.7	7415.3	7407.5	7372.2	7360.4	7332.9	7329.0
37.5°	7874.1	7905.5	7942.7	7950.6	7921.1	7913.3	7883.9	7868.2
40°	8440.7	8481.9	8538.8	8552.5	8521.1	8515.2	8474.1	8452.5
42.5°	9044.6	9115.2	9185.8	9197.6	9166.2	9134.8	9095.6	9079.9
45°	9719.1	9803.4	9895.6	9919.1	9872.0	9834.8	9783.8	9783.8
47.5°	10475.9	10581.8	10685.7	10750.4	10707.3	10668.1	10607.3	10568.1
50°	11370.0	11515.1	11650.4	11717.0	11648.4	11573.9	11468.0	11432.7
52.5°	12491.5	12648.4	12766.0	12730.7	12624.8	12520.9	12405.2	12358.2
55°	13922.8	13975.7	13975.7	13842.4	13630.7	13456.2	13273.8	13213.0
57.5°	15712.9	15509.0	15195.3	14797.3	14297.3	13862.0	13567.9	13428.7
60°	17816.7	16836.4	15728.6	14640.4	13746.3	13009.1	12571.9	12371.9
62.5°	19218.6	16654.0	14434.5	12687.6	11401.4	10513.2	9909.3	9674.0
65°	17961.8	13889.5	10917.1	8827.0	7425.1	6521.2	5923.2	5703.6
67.5°	13156.2	8703.5	5813.4	4166.4	3052.8	2435.2	2190.1	2088.1
70°	5905.6	3064.5	1878.3	1466.6	1264.6	1160.7	1115.6	1099.9
72.5°	1780.3	1288.2	1086.2	980.3	900.0	849.0	811.7	807.8
75°	1074.5	894.1	794.1	731.3	680.4	639.2	619.6	613.7
77.5°	750.9	656.8	609.8	564.7	525.5	494.1	476.4	462.7
80°	527.4	482.3	460.8	435.3	409.8	380.4	354.9	343.1
82.5°	352.9	343.1	343.1	327.4	305.9	278.4	227.4	215.7
85°	227.4	225.5	229.4	223.5	207.8	178.4	147.1	139.2
87.5°	105.9	107.8	119.6	117.6	113.7	94.1	74.5	70.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)