

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: P299432

Luminaire Tested: **GLNA-AF-07-LED-E1-5NQ-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299432  
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-7030-800  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II  
w/Spill Control OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33821.6 lumens  
Efficiency: N/A  
Efficacy: 114.6 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): 295  
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

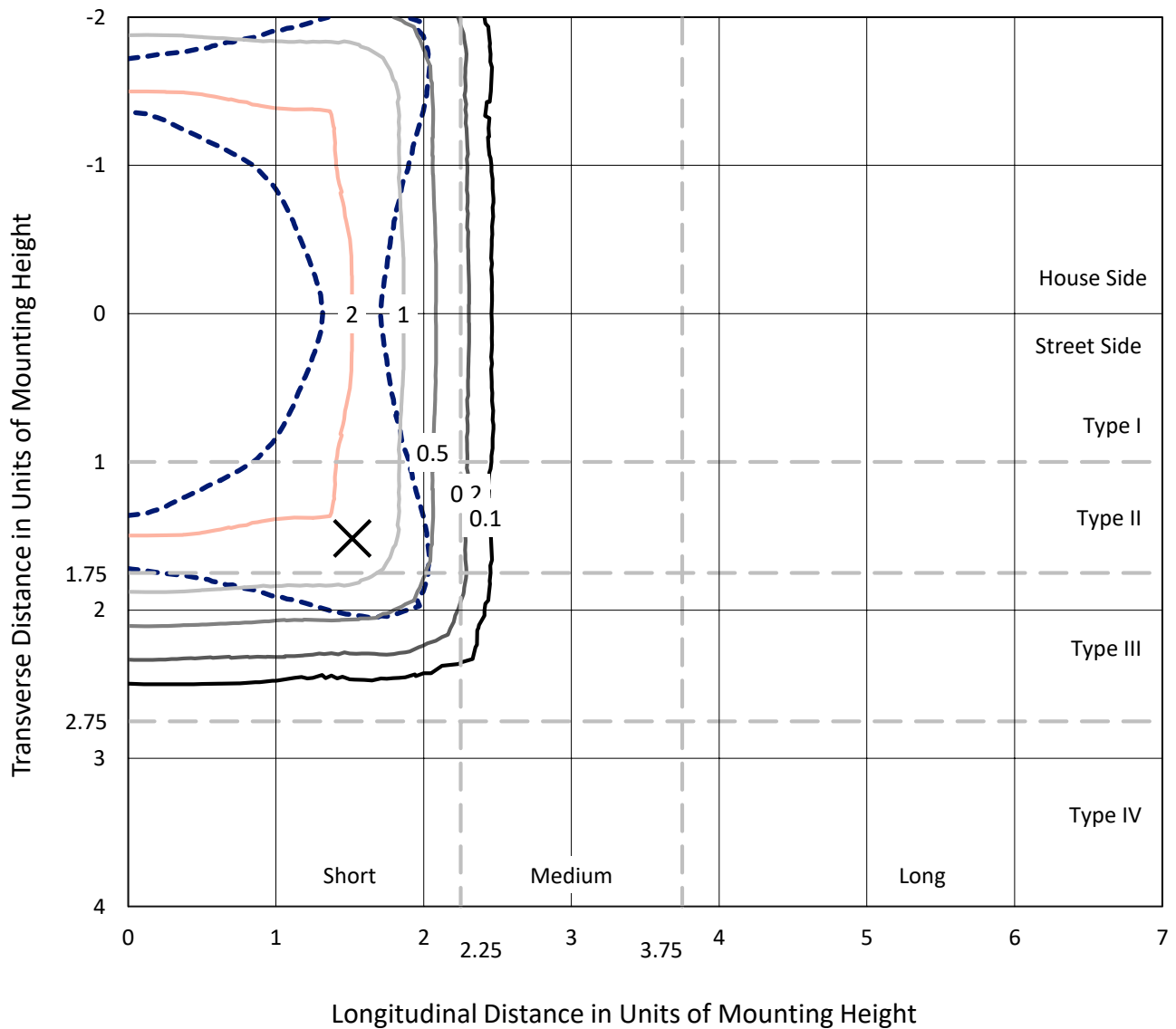


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

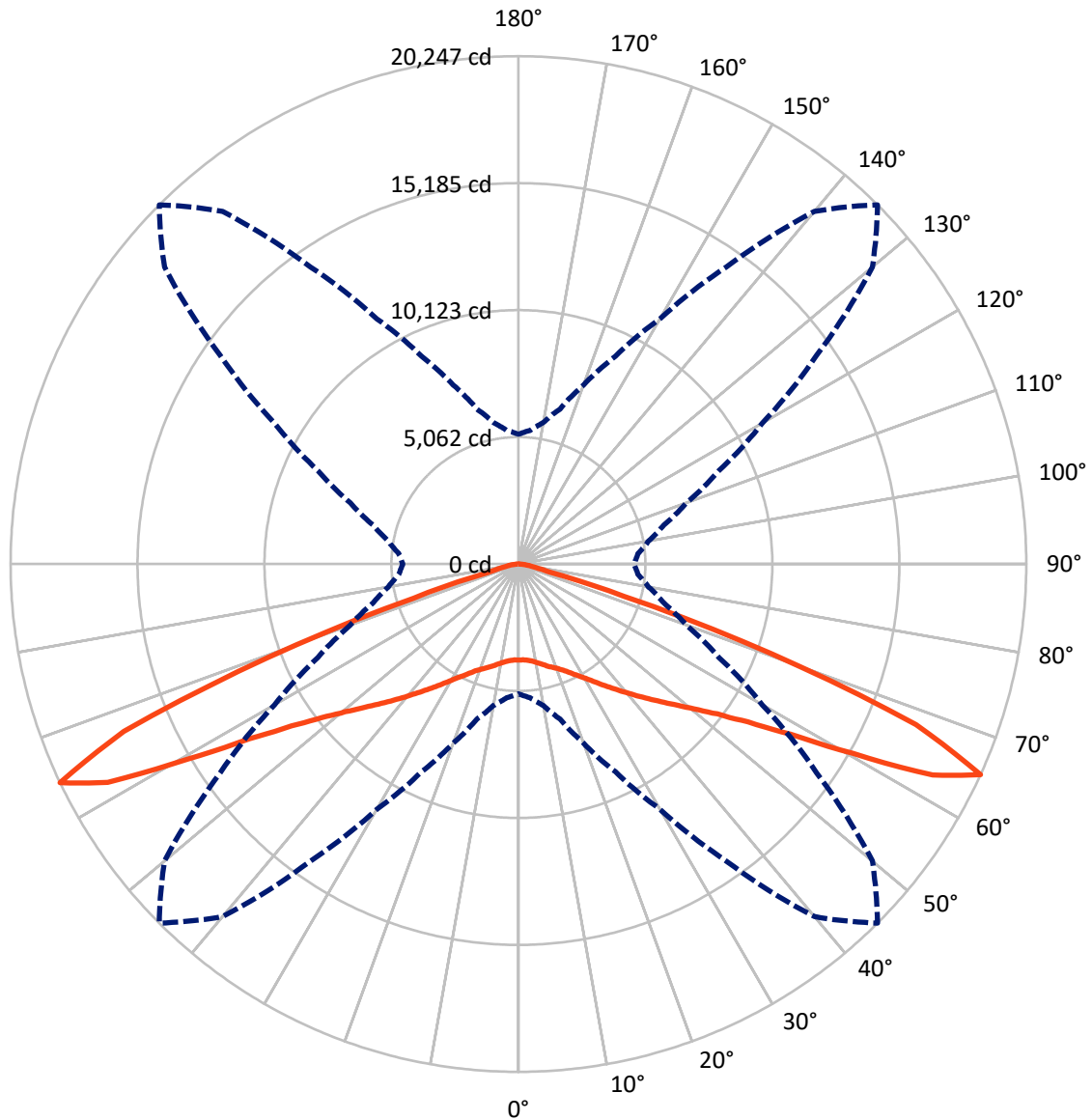


Based on 30 foot mounting height. Maximum calculated value = 4.3 fc  
 Type V - Short - Full Cutoff

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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
<b>House Side</b>	Lumens	16910.8	0.0	16910.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16910.8	0.0	16910.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33821.6	0.0	33821.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	373.0	1.1
10°-20°	1196.3	3.5
20°-30°	2236.8	6.6
30°-40°	3783.1	11.2
40°-50°	6185.8	18.3
50°-60°	9836.4	29.1
60°-70°	8891.4	26.3
70°-80°	1125.3	3.3
80°-90°	193.6	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°	33821.6	100.0
0°-180°	33821.6	100.0

**Coefficient of Utilization**



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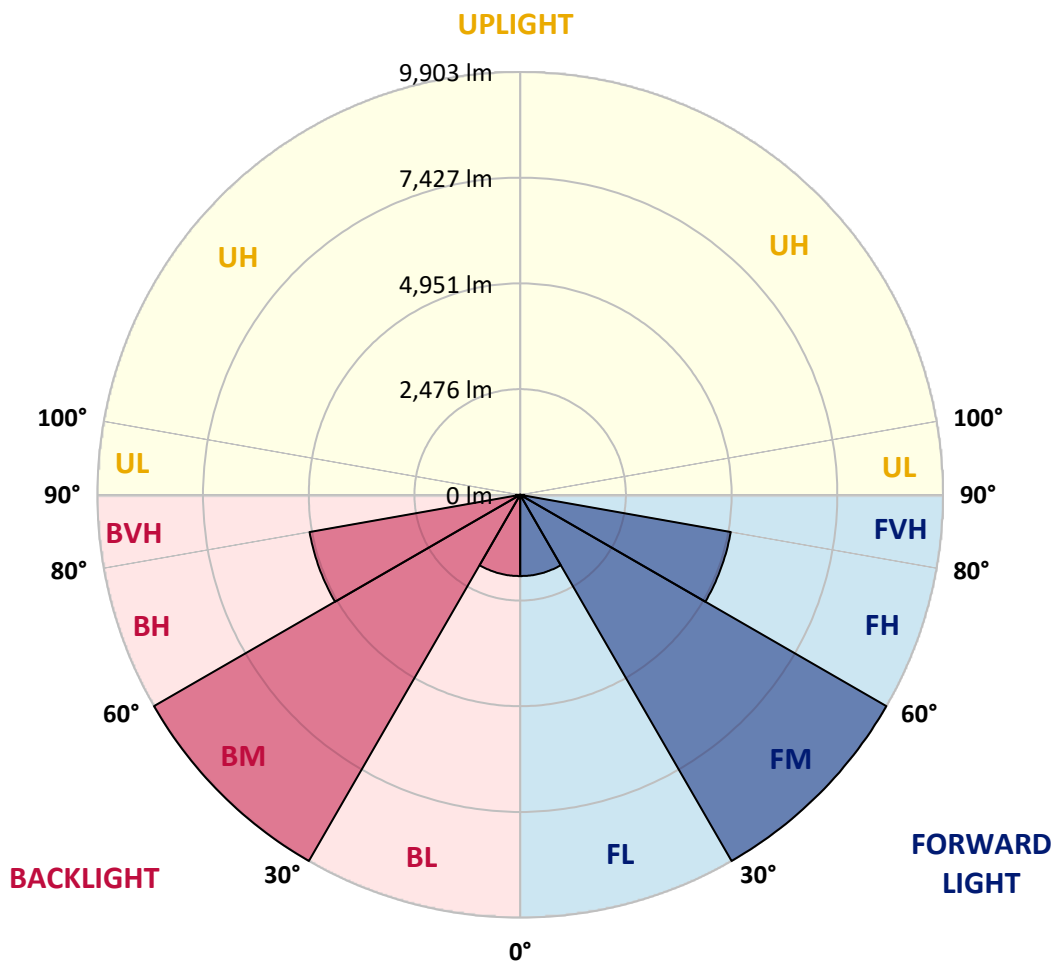
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1903.1	5.6			
FM	(30°-60°)	9902.6	29.3			
FH	(60°-80°)	5008.3	14.8			G3/7500
FVH	(80°-90°)	96.8	0.3			G1/100
BL	(0°-30°)	1903.1	5.6	B3/2500		
BM	(30°-60°)	9902.6	29.3	B5		
BH	(60°-80°)	5008.3	14.8	B5		G3/7500
BVH	(80°-90°)	96.8	0.3			G1/100
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°	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9
2.5°	3830.1	3833.3	3836.4	3833.3	3836.4	3831.7	3828.5	3833.3	3828.5	3823.8	3826.9
5°	3863.4	3865.0	3865.0	3860.2	3865.0	3861.8	3857.0	3863.4	3858.6	3853.9	3857.0
7.5°	3918.8	3925.1	3920.4	3915.6	3918.8	3915.6	3912.5	3914.1	3912.5	3907.7	3909.3
10°	3993.3	3998.0	3994.8	3993.3	3996.4	3994.8	3991.7	3990.1	3991.7	3986.9	3986.9
12.5°	4083.5	4082.0	4080.4	4082.0	4086.7	4086.7	4085.1	4086.7	4089.9	4091.5	4088.3
15°	4172.2	4175.4	4175.4	4175.4	4184.9	4192.8	4197.6	4200.8	4207.1	4208.7	4202.3
17.5°	4283.1	4283.1	4281.5	4283.1	4292.6	4305.3	4310.1	4316.4	4322.7	4327.5	4319.6
20°	4406.7	4409.8	4409.8	4413.0	4425.7	4439.9	4439.9	4443.1	4439.9	4443.1	4438.4
22.5°	4557.2	4566.7	4566.7	4568.2	4580.9	4598.3	4593.6	4598.3	4590.4	4596.8	4590.4
25°	4753.6	4767.8	4764.7	4764.7	4774.2	4785.3	4786.8	4796.3	4794.8	4802.7	4797.9
27.5°	4975.3	4997.5	5003.8	5002.3	5008.6	5019.7	5022.9	5033.9	5027.6	5033.9	5030.8
30°	5241.4	5250.9	5263.6	5268.4	5276.3	5287.4	5287.4	5289.0	5281.0	5290.5	5295.3
32.5°	5517.1	5534.5	5547.2	5575.7	5589.9	5597.8	5596.3	5599.4	5591.5	5604.2	5613.7
35°	5881.4	5894.1	5914.6	5936.8	5955.8	5954.2	5949.5	5951.1	5951.1	5962.2	5971.7
37.5°	6320.1	6323.3	6350.2	6381.9	6391.4	6381.9	6353.4	6347.1	6332.8	6347.1	6362.9
40°	6784.3	6795.3	6849.2	6869.8	6874.5	6857.1	6815.9	6792.2	6760.5	6777.9	6800.1
42.5°	7270.5	7292.7	7341.8	7378.3	7394.1	7383.0	7326.0	7289.6	7248.4	7257.9	7280.0
45°	7809.1	7836.0	7905.7	7940.6	7970.7	7953.2	7897.8	7842.4	7777.4	7782.2	7817.0
47.5°	8411.0	8437.9	8528.2	8586.8	8602.7	8599.5	8537.7	8461.7	8373.0	8369.8	8399.9
50°	9085.8	9112.7	9225.2	9315.5	9361.4	9356.7	9283.8	9176.1	9068.4	9070.0	9108.0
52.5°	9744.7	9778.0	9895.2	10050.5	10140.7	10205.7	10161.3	10060.0	9928.5	9931.7	9966.5
55°	10362.5	10417.9	10552.6	10763.3	10931.2	11113.3	11165.6	11162.4	11083.2	11105.4	11140.2
57.5°	10661.9	10744.2	10951.8	11284.4	11626.5	11997.2	12310.8	12545.3	12645.0	12795.5	12760.7
60°	10094.8	10226.3	10532.0	11021.4	11697.8	12470.8	13299.2	14108.7	14799.3	15320.4	15021.0
62.5°	8265.3	8436.4	8807.0	9434.3	10457.5	11694.6	13280.2	15193.7	17278.2	18535.9	17637.8
65°	5171.7	5349.2	5726.1	6397.8	7595.3	9133.3	11284.4	14455.6	18350.6	20246.6	18418.7
67.5°	2016.4	2113.1	2317.4	2746.6	3646.4	5014.9	7173.9	10772.8	15431.3	17092.9	15144.6
70°	1010.6	1020.1	1058.1	1137.3	1330.6	1728.1	2629.4	4994.3	8849.8	10688.8	8531.4
72.5°	730.2	731.8	750.8	785.7	847.4	936.1	1107.2	1528.6	2878.1	4398.8	2697.5
75°	559.2	565.5	576.6	595.6	628.8	673.2	735.0	880.7	1091.4	1265.6	1064.4
77.5°	430.8	443.5	451.4	468.9	489.5	519.6	537.0	592.4	689.0	725.5	714.4
80°	327.9	339.0	356.4	370.7	384.9	399.2	392.8	418.2	468.9	499.0	483.1
82.5°	209.1	221.8	272.4	285.1	291.5	301.0	289.9	291.5	313.6	332.6	313.6
85°	134.6	142.6	172.7	188.5	190.1	196.4	191.7	180.6	180.6	164.7	185.3
87.5°	61.8	63.4	77.6	91.9	95.0	85.5	84.0	80.8	64.9	61.8	66.5
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°	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9	3826.9
2.5°	3825.4	3828.5	3830.1	3834.9	3836.4	3836.4	3838.0	3841.2
5°	3855.4	3860.2	3861.8	3868.1	3869.7	3868.1	3871.3	3872.9
7.5°	3909.3	3917.2	3920.4	3926.7	3922.0	3928.3	3929.9	3929.9
10°	3988.5	3996.4	3998.0	4004.3	4001.2	4004.3	4004.3	4001.2
12.5°	4093.0	4094.6	4089.9	4094.6	4088.3	4091.5	4086.7	4083.5
15°	4208.7	4203.9	4192.8	4192.8	4183.3	4184.9	4183.3	4181.8
17.5°	4321.1	4311.6	4303.7	4300.6	4292.6	4291.0	4286.3	4286.3
20°	4444.7	4439.9	4435.2	4428.9	4420.9	4413.0	4411.4	4414.6
22.5°	4593.6	4592.0	4592.0	4588.8	4577.7	4569.8	4565.1	4565.1
25°	4793.2	4778.9	4778.9	4777.3	4772.6	4767.8	4758.3	4763.1
27.5°	5018.1	5010.2	5016.5	5014.9	5010.2	5010.2	5003.8	5003.8
30°	5295.3	5292.1	5301.6	5293.7	5277.9	5276.3	5270.0	5262.0
32.5°	5615.3	5612.1	5626.4	5616.9	5591.5	5577.3	5564.6	5558.2
35°	5971.7	5973.3	5990.7	5984.3	5955.8	5946.3	5924.1	5921.0
37.5°	6361.3	6386.7	6416.8	6423.1	6399.3	6393.0	6369.2	6356.6
40°	6819.1	6852.4	6898.3	6909.4	6884.0	6879.3	6846.0	6828.6
42.5°	7307.0	7364.0	7421.0	7430.5	7405.2	7379.8	7348.2	7335.5
45°	7851.9	7920.0	7994.4	8013.4	7975.4	7945.3	7904.1	7904.1
47.5°	8463.3	8548.8	8632.8	8685.1	8650.2	8618.5	8569.4	8537.7
50°	9185.6	9302.8	9412.1	9466.0	9410.5	9350.3	9264.8	9236.3
52.5°	10091.6	10218.4	10313.4	10284.9	10199.4	10115.4	10021.9	9983.9
55°	11248.0	11290.7	11290.7	11183.0	11011.9	10871.0	10723.7	10674.6
57.5°	12694.1	12529.4	12276.0	11954.4	11550.5	11198.9	10961.3	10848.8
60°	14393.8	13601.8	12706.8	11827.7	11105.4	10509.8	10156.6	9995.0
62.5°	15526.3	13454.5	11661.4	10250.0	9210.9	8493.4	8005.5	7815.4
65°	14511.0	11221.0	8819.7	7131.2	5998.6	5268.4	4785.3	4607.8
67.5°	10628.6	7031.4	4696.5	3366.0	2466.3	1967.3	1769.3	1687.0
70°	4771.0	2475.8	1517.5	1184.8	1021.7	937.7	901.3	888.6
72.5°	1438.3	1040.7	877.5	792.0	727.1	685.9	655.8	652.6
75°	868.0	722.3	641.5	590.8	549.6	516.4	500.5	495.8
77.5°	606.7	530.6	492.6	456.2	424.5	399.2	384.9	373.8
80°	426.1	389.7	372.2	351.6	331.1	307.3	286.7	277.2
82.5°	285.1	277.2	277.2	264.5	247.1	224.9	183.7	174.2
85°	183.7	182.2	185.3	180.6	167.9	144.1	118.8	112.5
87.5°	85.5	87.1	96.6	95.0	91.9	76.0	60.2	57.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)