

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: P299426

Luminaire Tested: **GLNA-AF-06-LED-E1-5NQ-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299426  
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-06-LED-E1-5NQ-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II  
w/Spill Control OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

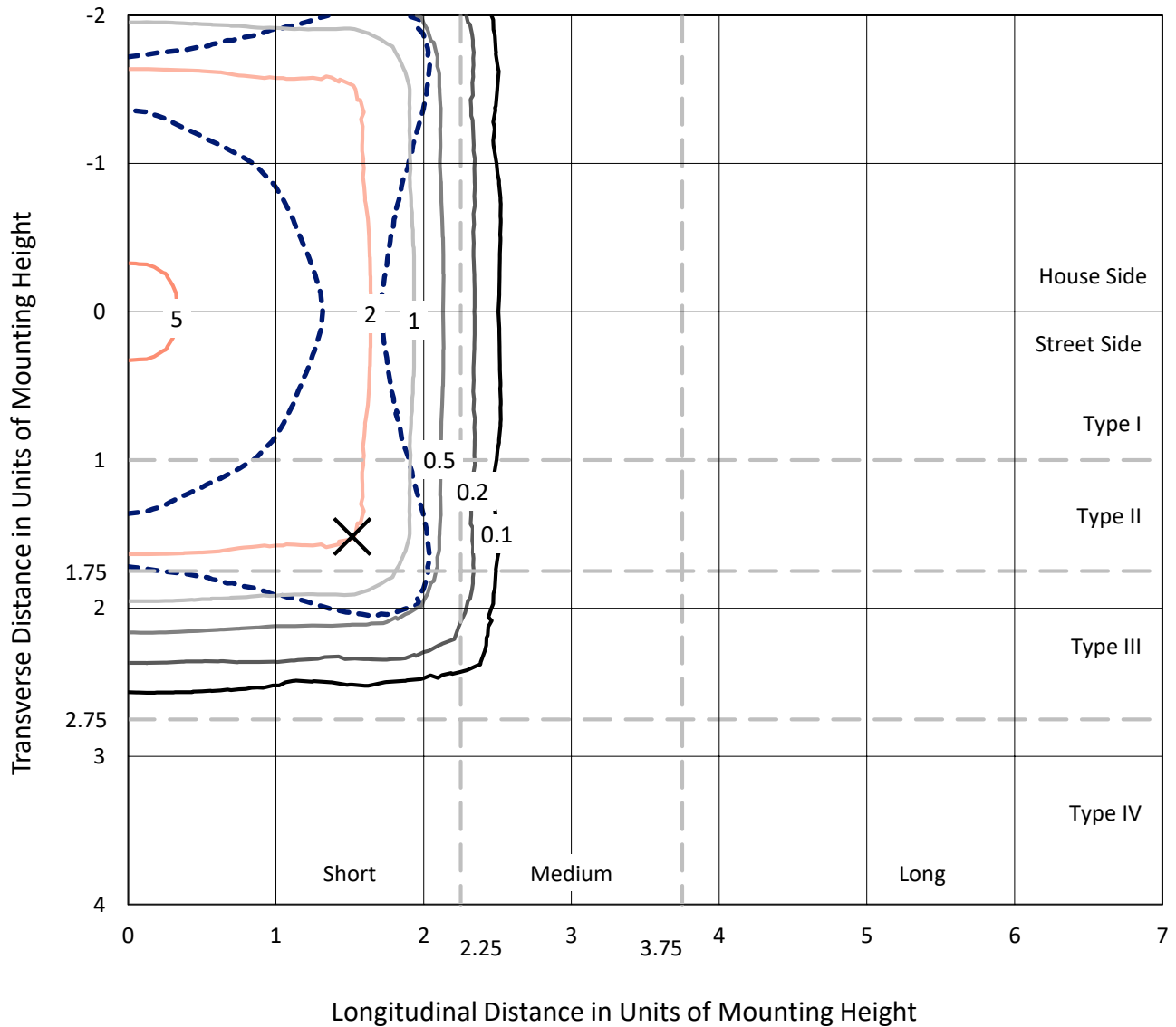
Lumens per Lamp: N/A  
Luminaire Lumens: 28599 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (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

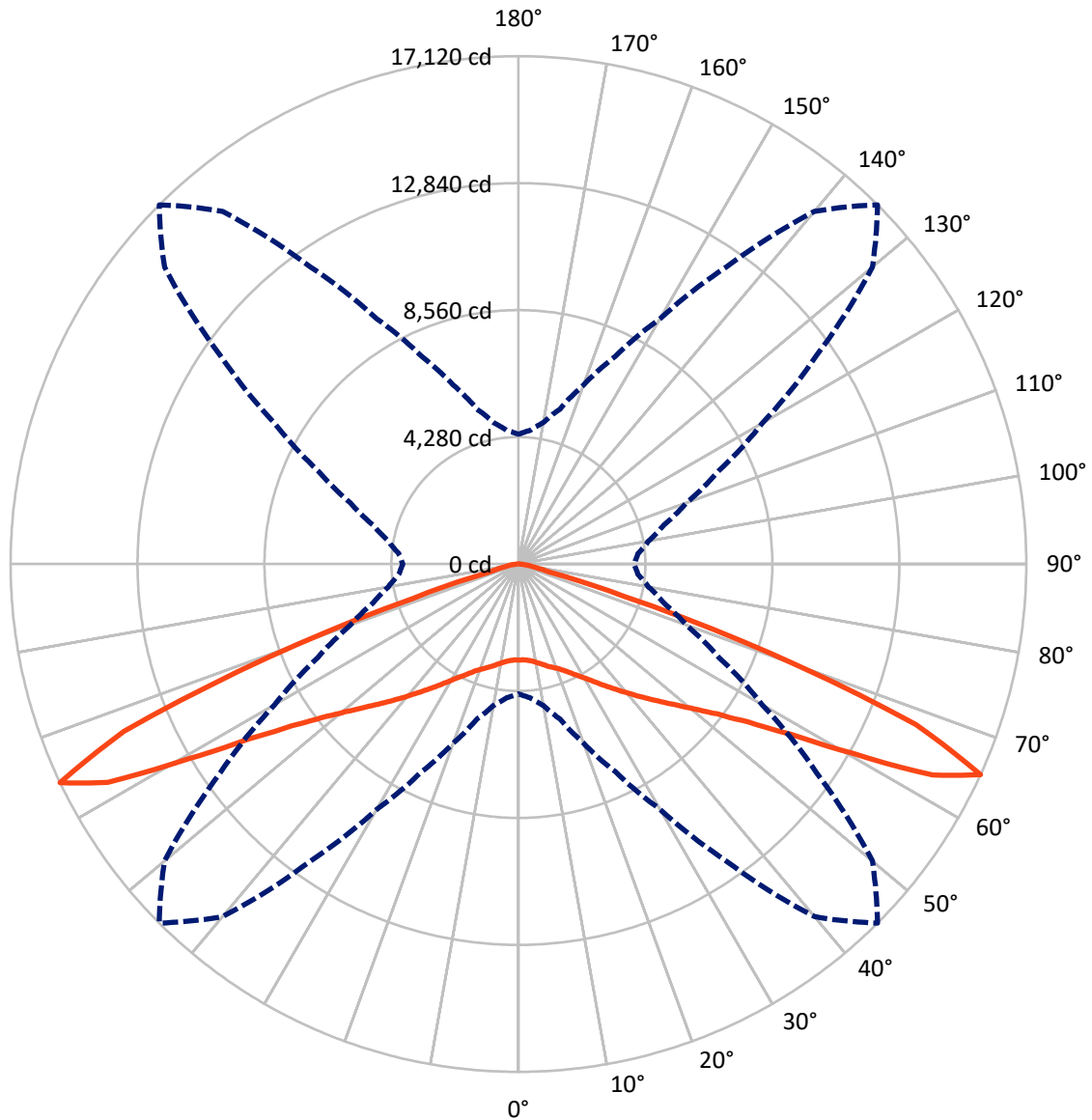
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	14299.5	0.0	14299.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14299.5	0.0	14299.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28599.0	0.0	28599.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.4	1.1
10°-20°	1011.6	3.5
20°-30°	1891.4	6.6
30°-40°	3198.9	11.2
40°-50°	5230.6	18.3
50°-60°	8317.5	29.1
60°-70°	7518.4	26.3
70°-80°	951.5	3.3
80°-90°	163.7	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°	28599.0	100.0
0°-180°	28599.0	100.0



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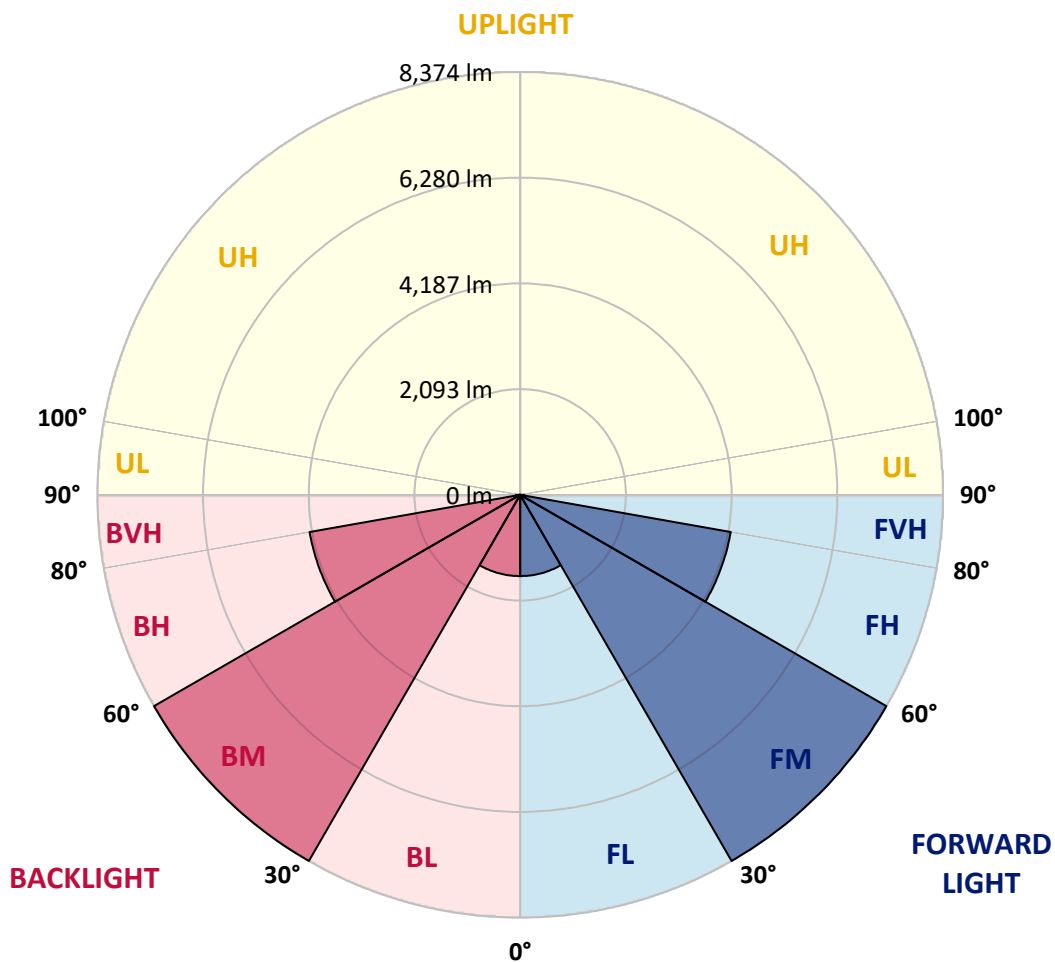
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1609.2	5.6			
FM	(30°-60°)	8373.5	29.3			
FH	(60°-80°)	4235.0	14.8			G2/5000
FVH	(80°-90°)	81.8	0.3			G1/100
BL	(0°-30°)	1609.2	5.6	B3/2500		
BM	(30°-60°)	8373.5	29.3	B4/8500		
BH	(60°-80°)	4235.0	14.8	B4/5000		G2/5000
BVH	(80°-90°)	81.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0
2.5°	3238.7	3241.4	3244.0	3241.4	3244.0	3240.0	3237.3	3241.4	3237.3	3233.3	3236.0
5°	3266.8	3268.1	3268.1	3264.1	3268.1	3265.5	3261.4	3266.8	3262.8	3258.8	3261.4
7.5°	3313.7	3319.0	3315.0	3311.0	3313.7	3311.0	3308.3	3309.7	3308.3	3304.3	3305.6
10°	3376.6	3380.7	3378.0	3376.6	3379.3	3378.0	3375.3	3374.0	3375.3	3371.3	3371.3
12.5°	3453.0	3451.6	3450.3	3451.6	3455.7	3455.7	3454.3	3455.7	3458.3	3459.7	3457.0
15°	3528.0	3530.7	3530.7	3530.7	3538.7	3545.4	3549.4	3552.1	3557.5	3558.8	3553.4
17.5°	3621.7	3621.7	3620.4	3621.7	3629.8	3640.5	3644.5	3649.9	3655.2	3659.2	3652.6
20°	3726.2	3728.9	3728.9	3731.6	3742.3	3754.3	3754.3	3757.0	3754.3	3757.0	3753.0
22.5°	3853.5	3861.5	3861.5	3862.8	3873.6	3888.3	3884.3	3888.3	3881.6	3886.9	3881.6
25°	4019.5	4031.6	4028.9	4028.9	4037.0	4046.3	4047.7	4055.7	4054.4	4061.1	4057.0
27.5°	4207.1	4225.8	4231.2	4229.8	4235.2	4244.6	4247.2	4256.6	4251.3	4256.6	4253.9
30°	4432.1	4440.1	4450.8	4454.9	4461.5	4470.9	4470.9	4472.3	4465.6	4473.6	4477.6
32.5°	4665.1	4679.9	4690.6	4714.7	4726.8	4733.4	4732.1	4734.8	4728.1	4738.8	4746.8
35°	4973.2	4983.9	5001.3	5020.1	5036.2	5034.8	5030.8	5032.1	5032.1	5041.5	5049.5
37.5°	5344.2	5346.9	5369.7	5396.5	5404.5	5396.5	5372.3	5367.0	5354.9	5367.0	5380.4
40°	5736.7	5746.0	5791.6	5809.0	5813.0	5798.3	5763.4	5743.4	5716.6	5731.3	5750.1
42.5°	6147.9	6166.6	6208.1	6238.9	6252.3	6243.0	6194.7	6163.9	6129.1	6137.1	6155.9
45°	6603.3	6626.0	6685.0	6714.4	6739.9	6725.1	6678.3	6631.4	6576.5	6580.5	6610.0
47.5°	7112.2	7135.0	7211.3	7260.9	7274.3	7271.6	7219.4	7155.1	7080.1	7077.4	7102.9
50°	7682.8	7705.6	7800.7	7877.0	7915.9	7911.8	7850.2	7759.2	7668.1	7669.4	7701.6
52.5°	8240.0	8268.1	8367.2	8498.5	8574.9	8629.8	8592.3	8506.5	8395.4	8398.1	8427.5
55°	8762.4	8809.2	8923.1	9101.2	9243.2	9397.2	9441.4	9438.8	9371.8	9390.5	9420.0
57.5°	9015.5	9085.2	9260.6	9541.9	9831.2	10144.6	10409.8	10608.1	10692.4	10819.7	10790.2
60°	8536.0	8647.2	8905.7	9319.6	9891.5	10545.1	11245.6	11930.1	12514.0	12954.7	12701.6
62.5°	6989.0	7133.7	7447.1	7977.5	8842.7	9888.8	11229.5	12847.5	14610.2	15673.7	14914.2
65°	4373.1	4523.2	4841.9	5409.8	6422.4	7723.0	9541.9	12223.4	15517.0	17120.2	15574.6
67.5°	1705.1	1786.8	1959.5	2322.5	3083.3	4240.5	6066.2	9109.3	13048.5	14453.5	12806.0
70°	854.5	862.6	894.7	961.7	1125.1	1461.3	2223.4	4223.1	7483.2	9038.3	7214.0
72.5°	617.5	618.8	634.9	664.3	716.6	791.6	936.2	1292.5	2433.7	3719.5	2281.0
75°	472.8	478.2	487.5	503.6	531.7	569.2	621.5	744.7	922.8	1070.2	900.1
77.5°	364.3	375.0	381.7	396.5	413.9	439.3	454.1	500.9	582.6	613.4	604.1
80°	277.3	286.6	301.4	313.4	325.5	337.5	332.2	353.6	396.5	421.9	408.5
82.5°	176.8	187.5	230.4	241.1	246.5	254.5	245.1	246.5	265.2	281.3	265.2
85°	113.8	120.5	146.0	159.4	160.7	166.1	162.1	152.7	152.7	139.3	156.7
87.5°	52.2	53.6	65.6	77.7	80.4	72.3	71.0	68.3	54.9	52.2	56.3
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°	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0	3236.0
2.5°	3234.7	3237.3	3238.7	3242.7	3244.0	3244.0	3245.4	3248.1
5°	3260.1	3264.1	3265.5	3270.8	3272.2	3270.8	3273.5	3274.8
7.5°	3305.6	3312.3	3315.0	3320.4	3316.4	3321.7	3323.1	3323.1
10°	3372.6	3379.3	3380.7	3386.0	3383.3	3386.0	3386.0	3383.3
12.5°	3461.0	3462.4	3458.3	3462.4	3457.0	3459.7	3455.7	3453.0
15°	3558.8	3554.8	3545.4	3545.4	3537.4	3538.7	3537.4	3536.0
17.5°	3653.9	3645.9	3639.2	3636.5	3629.8	3628.4	3624.4	3624.4
20°	3758.4	3754.3	3750.3	3745.0	3738.3	3731.6	3730.2	3732.9
22.5°	3884.3	3882.9	3882.9	3880.2	3870.9	3864.2	3860.2	3860.2
25°	4053.0	4041.0	4041.0	4039.6	4035.6	4031.6	4023.6	4027.6
27.5°	4243.2	4236.5	4241.9	4240.5	4236.5	4236.5	4231.2	4231.2
30°	4477.6	4474.9	4483.0	4476.3	4462.9	4461.5	4456.2	4449.5
32.5°	4748.2	4745.5	4757.6	4749.5	4728.1	4716.0	4705.3	4700.0
35°	5049.5	5050.9	5065.6	5060.3	5036.2	5028.1	5009.4	5006.7
37.5°	5379.0	5400.5	5425.9	5431.3	5411.2	5405.8	5385.7	5375.0
40°	5766.1	5794.3	5833.1	5842.5	5821.0	5817.0	5788.9	5774.2
42.5°	6178.7	6226.9	6275.1	6283.1	6261.7	6240.3	6213.5	6202.8
45°	6639.4	6697.0	6760.0	6776.0	6743.9	6718.4	6683.6	6683.6
47.5°	7156.4	7228.8	7299.7	7343.9	7314.5	7287.7	7246.2	7219.4
50°	7767.2	7866.3	7958.7	8004.3	7957.4	7906.5	7834.2	7810.1
52.5°	8533.3	8640.5	8720.8	8696.7	8624.4	8553.4	8474.4	8442.3
55°	9511.1	9547.3	9547.3	9456.2	9311.5	9192.3	9067.8	9026.2
57.5°	10734.0	10594.7	10380.4	10108.5	9766.9	9469.6	9268.7	9173.6
60°	12171.1	11501.4	10744.7	10001.3	9390.5	8886.9	8588.2	8451.6
62.5°	13128.8	11376.9	9860.7	8667.3	7788.6	7181.9	6769.3	6608.6
65°	12270.3	9488.3	7457.8	6030.0	5072.3	4454.9	4046.3	3896.3
67.5°	8987.4	5945.6	3971.3	2846.2	2085.4	1663.5	1496.1	1426.5
70°	4034.3	2093.5	1283.1	1001.9	863.9	792.9	762.1	751.4
72.5°	1216.2	880.0	742.0	669.7	614.8	580.0	554.5	551.8
75°	734.0	610.8	542.5	499.6	464.8	436.6	423.3	419.2
77.5°	513.0	448.7	416.6	385.7	359.0	337.5	325.5	316.1
80°	360.3	329.5	314.8	297.3	279.9	259.8	242.4	234.4
82.5°	241.1	234.4	234.4	223.7	208.9	190.2	155.4	147.3
85°	155.4	154.0	156.7	152.7	142.0	121.9	100.5	95.1
87.5°	72.3	73.7	81.7	80.4	77.7	64.3	50.9	48.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)