

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: P299492

Luminaire Tested: **GLNA-AF-07-LED-E1-5NQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299492
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-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27578.9 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

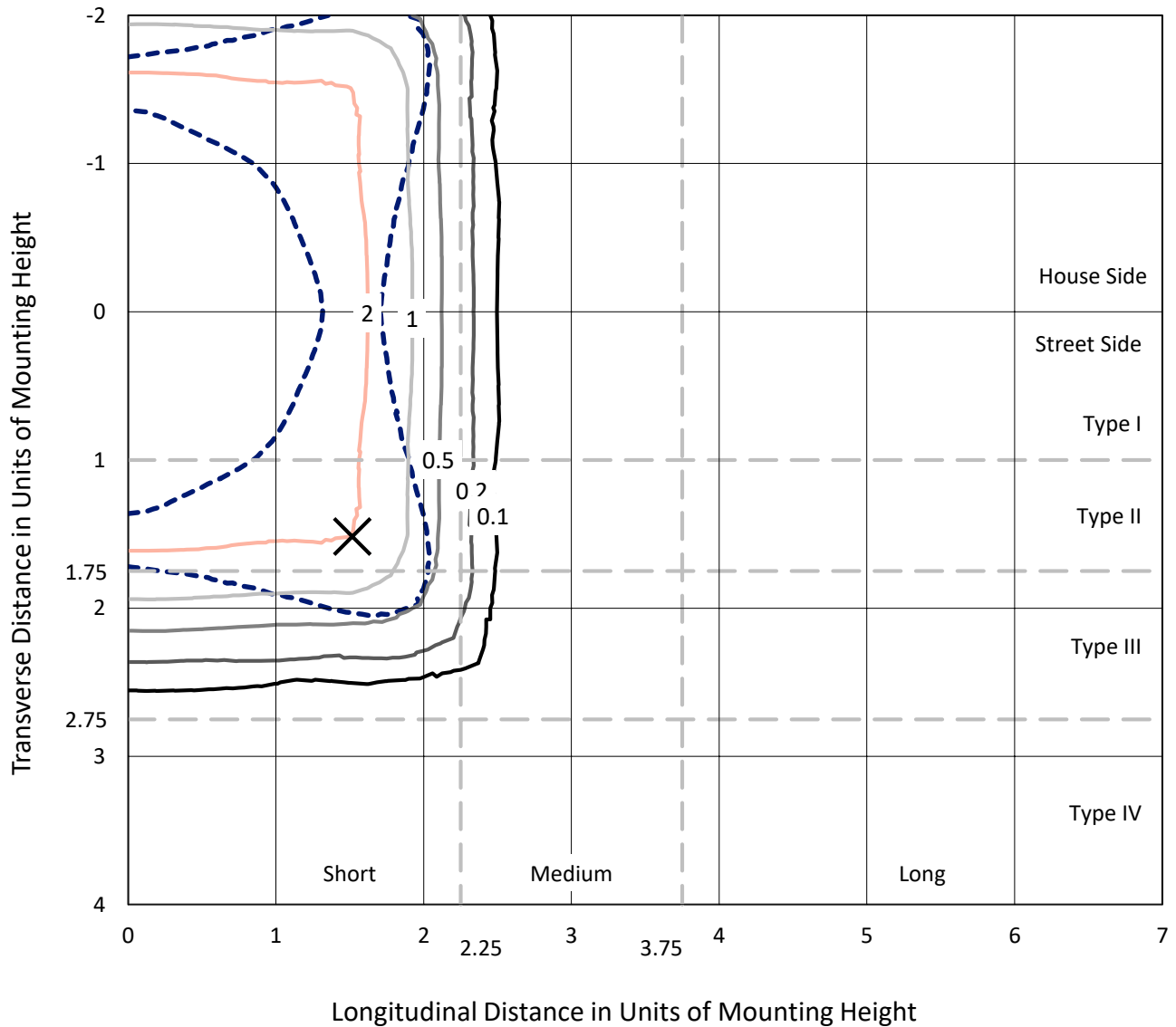
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

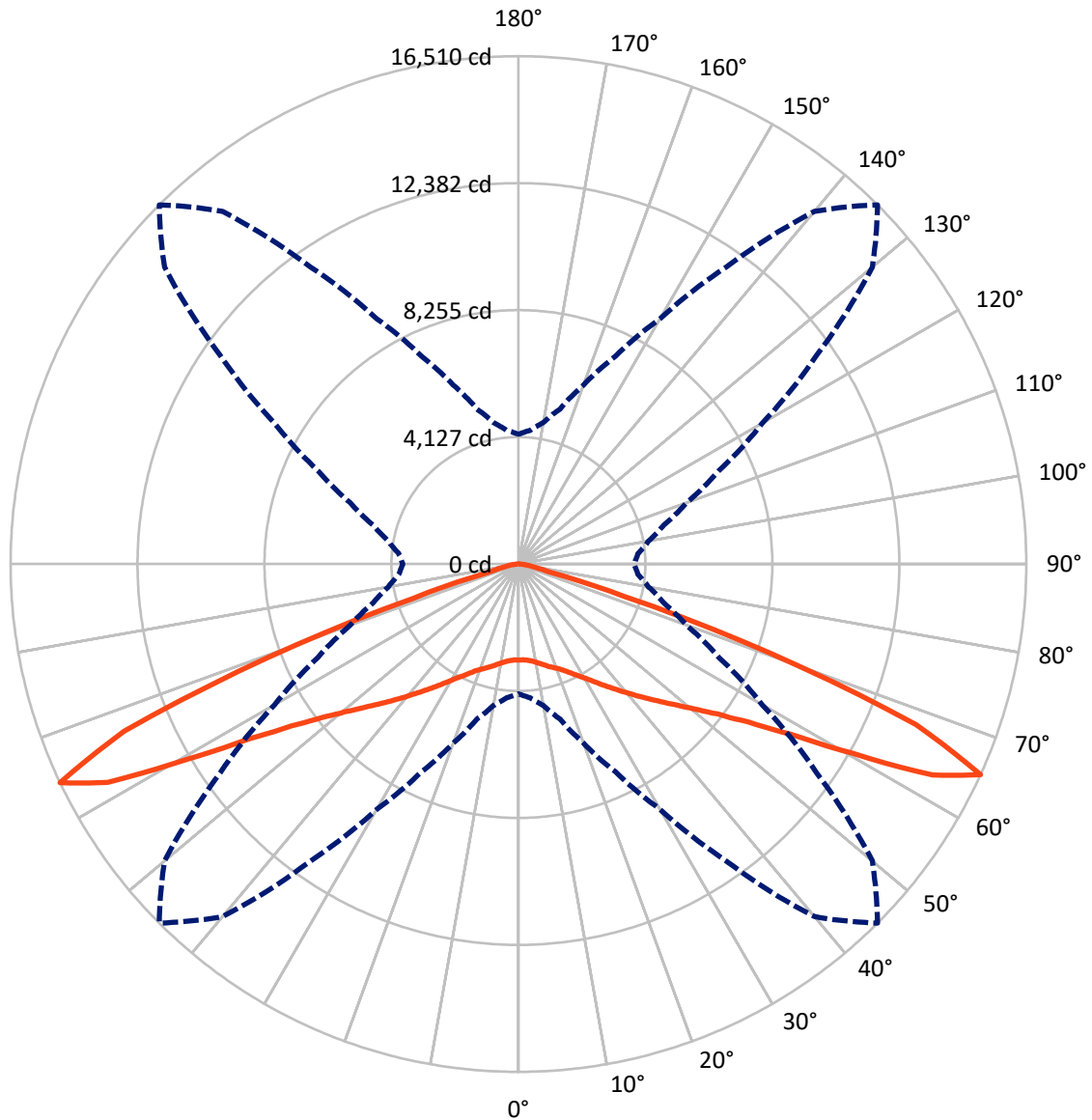


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - Full Cutoff

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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	13789.4	0.0	13789.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13789.4	0.0	13789.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	27578.9	0.0	27578.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.2	1.1
10°-20°	975.5	3.5
20°-30°	1824.0	6.6
30°-40°	3084.8	11.2
40°-50°	5044.0	18.3
50°-60°	8020.8	29.1
60°-70°	7250.3	26.3
70°-80°	917.6	3.3
80°-90°	157.8	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°	27578.9	100.0
0°-180°	27578.9	100.0



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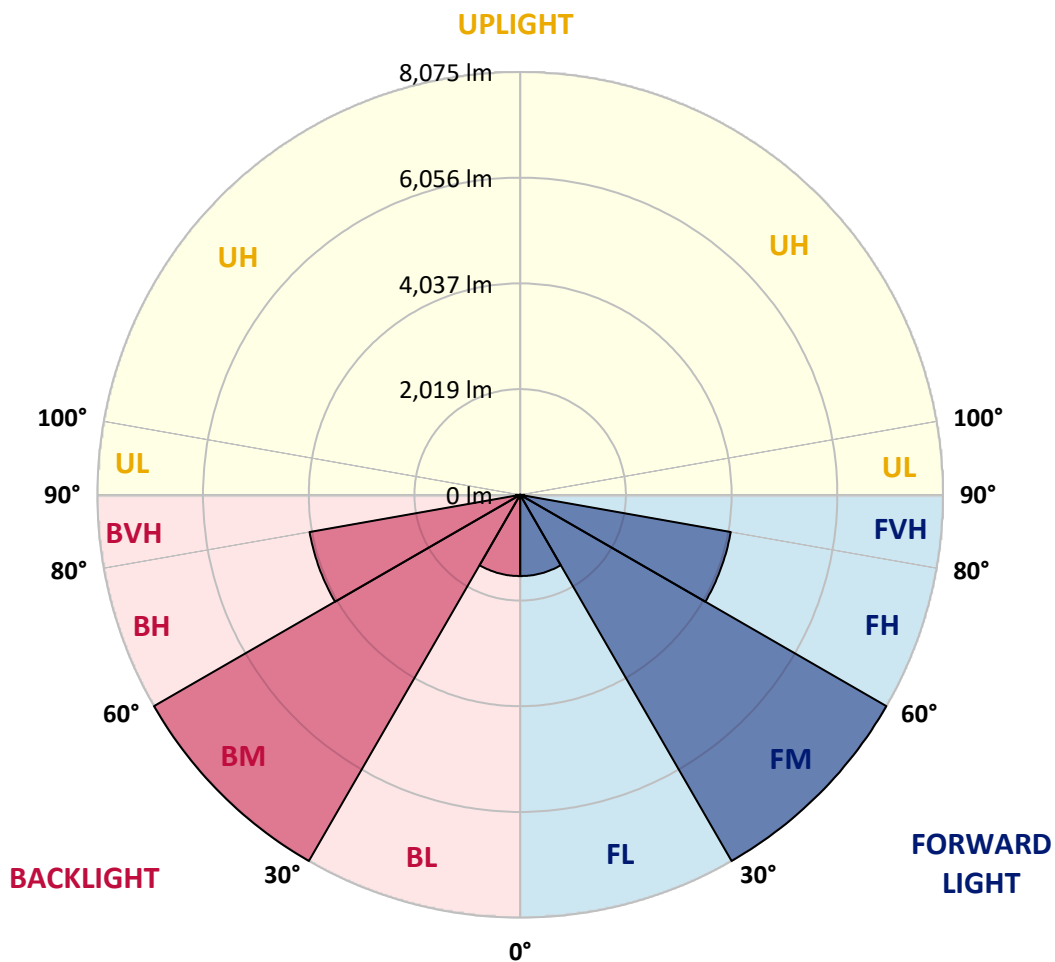
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1551.8	5.6			
FM	(30°-60°)	8074.8	29.3			
FH	(60°-80°)	4083.9	14.8			G2/5000
FVH	(80°-90°)	78.9	0.3			G1/100
BL	(0°-30°)	1551.8	5.6	B3/2500		
BM	(30°-60°)	8074.8	29.3	B4/8500		
BH	(60°-80°)	4083.9	14.8	B4/5000		G2/5000
BVH	(80°-90°)	78.9	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°	3120.6	3120.6	3120.6	3120.6	3120.6	3120.6	3120.6	3120.6	3120.6	3120.6	3120.6
2.5°	3123.2	3125.7	3128.3	3125.7	3128.3	3124.4	3121.9	3125.7	3121.9	3118.0	3120.6
5°	3150.3	3151.6	3151.6	3147.7	3151.6	3149.0	3145.1	3150.3	3146.4	3142.5	3145.1
7.5°	3195.5	3200.6	3196.8	3192.9	3195.5	3192.9	3190.3	3191.6	3190.3	3186.4	3187.7
10°	3256.2	3260.1	3257.5	3256.2	3258.8	3257.5	3254.9	3253.6	3254.9	3251.0	3251.0
12.5°	3329.8	3328.5	3327.2	3328.5	3332.4	3332.4	3331.1	3332.4	3335.0	3336.3	3333.7
15°	3402.1	3404.7	3404.7	3404.7	3412.5	3418.9	3422.8	3425.4	3430.6	3431.8	3426.7
17.5°	3492.6	3492.6	3491.3	3492.6	3500.3	3510.6	3514.5	3519.7	3524.8	3528.7	3522.3
20°	3593.3	3595.9	3595.9	3598.5	3608.8	3620.4	3620.4	3623.0	3620.4	3623.0	3619.1
22.5°	3716.0	3723.8	3723.8	3725.0	3735.4	3749.6	3745.7	3749.6	3743.1	3748.3	3743.1
25°	3876.2	3887.8	3885.2	3885.2	3893.0	3902.0	3903.3	3911.0	3909.8	3916.2	3912.3
27.5°	4057.0	4075.1	4080.2	4079.0	4084.1	4093.2	4095.7	4104.8	4099.6	4104.8	4102.2
30°	4274.0	4281.7	4292.1	4295.9	4302.4	4311.4	4311.4	4312.7	4306.3	4314.0	4317.9
32.5°	4498.7	4512.9	4523.3	4546.5	4558.1	4564.6	4563.3	4565.9	4559.4	4569.8	4577.5
35°	4795.8	4806.1	4822.9	4841.0	4856.5	4855.2	4851.3	4852.6	4852.6	4861.7	4869.4
37.5°	5153.6	5156.2	5178.1	5204.0	5211.7	5204.0	5180.7	5175.5	5163.9	5175.5	5188.5
40°	5532.0	5541.1	5585.0	5601.8	5605.7	5591.4	5557.9	5538.5	5512.7	5526.9	5544.9
42.5°	5928.6	5946.6	5986.7	6016.4	6029.3	6020.3	5973.8	5944.1	5910.5	5918.2	5936.3
45°	6367.7	6389.7	6446.5	6474.9	6499.5	6485.3	6440.0	6394.8	6341.9	6345.8	6374.2
47.5°	6858.5	6880.5	6954.1	7001.9	7014.8	7012.2	6961.9	6899.9	6827.5	6824.9	6849.5
50°	7408.8	7430.7	7522.4	7596.0	7633.5	7629.6	7570.2	7482.4	7394.6	7395.8	7426.8
52.5°	7946.1	7973.2	8068.8	8195.4	8269.0	8321.9	8285.8	8203.1	8095.9	8098.5	8126.9
55°	8449.8	8495.0	8604.8	8776.6	8913.5	9062.0	9104.7	9102.1	9037.5	9055.6	9084.0
57.5°	8693.9	8761.1	8930.3	9201.5	9480.5	9782.8	10038.5	10229.7	10311.0	10433.8	10405.3
60°	8231.5	8338.7	8588.0	8987.1	9538.7	10169.0	10844.5	11504.5	12067.7	12492.6	12248.5
62.5°	6739.7	6879.2	7181.4	7692.9	8527.3	9536.1	10829.0	12389.3	14089.1	15114.6	14382.3
65°	4217.2	4361.8	4669.2	5216.9	6193.3	7447.5	9201.5	11787.4	14963.5	16509.6	15019.0
67.5°	1644.2	1723.0	1889.6	2239.7	2973.3	4089.3	5849.8	8784.3	12583.0	13937.9	12349.2
70°	824.1	831.8	862.8	927.4	1085.0	1409.2	2144.1	4072.5	7216.3	8715.9	6956.7
72.5°	595.4	596.7	612.2	640.6	691.0	763.4	902.8	1246.4	2346.9	3586.8	2199.6
75°	455.9	461.1	470.2	485.7	512.8	548.9	599.3	718.1	889.9	1032.0	868.0
77.5°	351.3	361.7	368.1	382.3	399.1	423.7	437.9	483.1	561.9	591.6	582.5
80°	267.4	276.4	290.6	302.2	313.9	325.5	320.3	341.0	382.3	406.9	393.9
82.5°	170.5	180.8	222.2	232.5	237.7	245.4	236.4	237.7	255.7	271.2	255.7
85°	109.8	116.2	140.8	153.7	155.0	160.2	156.3	147.2	147.2	134.3	151.1
87.5°	50.4	51.7	63.3	74.9	77.5	69.7	68.5	65.9	53.0	50.4	54.2
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°	3120.6	3120.6	3120.6	3120.6	3120.6	3120.6	3120.6	3120.6
2.5°	3119.3	3121.9	3123.2	3127.0	3128.3	3128.3	3129.6	3132.2
5°	3143.8	3147.7	3149.0	3154.1	3155.4	3154.1	3156.7	3158.0
7.5°	3187.7	3194.2	3196.8	3201.9	3198.1	3203.2	3204.5	3204.5
10°	3252.3	3258.8	3260.1	3265.2	3262.6	3265.2	3265.2	3262.6
12.5°	3337.6	3338.9	3335.0	3338.9	3333.7	3336.3	3332.4	3329.8
15°	3431.8	3428.0	3418.9	3418.9	3411.2	3412.5	3411.2	3409.9
17.5°	3523.6	3515.8	3509.3	3506.8	3500.3	3499.0	3495.1	3495.1
20°	3624.3	3620.4	3616.6	3611.4	3604.9	3598.5	3597.2	3599.8
22.5°	3745.7	3744.4	3744.4	3741.8	3732.8	3726.3	3722.5	3722.5
25°	3908.5	3896.8	3896.8	3895.5	3891.7	3887.8	3880.0	3883.9
27.5°	4091.9	4085.4	4090.6	4089.3	4085.4	4085.4	4080.2	4080.2
30°	4317.9	4315.3	4323.1	4316.6	4303.7	4302.4	4297.2	4290.8
32.5°	4578.8	4576.2	4587.9	4580.1	4559.4	4547.8	4537.5	4532.3
35°	4869.4	4870.7	4884.9	4879.8	4856.5	4848.8	4830.7	4828.1
37.5°	5187.2	5207.8	5232.4	5237.5	5218.2	5213.0	5193.6	5183.3
40°	5560.4	5587.6	5625.0	5634.1	5613.4	5609.5	5582.4	5568.2
42.5°	5958.3	6004.8	6051.3	6059.0	6038.3	6017.7	5991.9	5981.5
45°	6402.6	6458.1	6518.8	6534.3	6503.3	6478.8	6445.2	6445.2
47.5°	6901.2	6970.9	7039.4	7082.0	7053.6	7027.7	6987.7	6961.9
50°	7490.1	7585.7	7674.8	7718.8	7673.5	7624.5	7554.7	7531.5
52.5°	8228.9	8332.3	8409.8	8386.5	8316.8	8248.3	8172.1	8141.1
55°	9171.8	9206.7	9206.7	9118.9	8979.4	8864.4	8744.3	8704.3
57.5°	10351.1	10216.8	10010.1	9747.9	9418.5	9131.8	8938.0	8846.3
60°	11737.0	11091.2	10361.4	9644.6	9055.6	8569.9	8281.9	8150.2
62.5°	12660.5	10971.1	9508.9	8358.1	7510.8	6925.7	6527.9	6372.9
65°	11832.6	9149.9	7191.8	5814.9	4891.4	4295.9	3902.0	3757.3
67.5°	8666.8	5733.5	3829.7	2744.7	2011.1	1604.2	1442.7	1375.6
70°	3890.4	2018.8	1237.4	966.1	833.1	764.6	734.9	724.6
72.5°	1172.8	848.6	715.6	645.8	592.9	559.3	534.7	532.1
75°	707.8	589.0	523.1	481.8	448.2	421.1	408.2	404.3
77.5°	494.7	432.7	401.7	372.0	346.2	325.5	313.9	304.8
80°	347.4	317.7	303.5	286.7	269.9	250.6	233.8	226.0
82.5°	232.5	226.0	226.0	215.7	201.5	183.4	149.8	142.1
85°	149.8	148.5	151.1	147.2	136.9	117.5	96.9	91.7
87.5°	69.7	71.0	78.8	77.5	74.9	62.0	49.1	46.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)