

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: P300560

Luminaire Tested: **GLNA-AF-05-LED-E1-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300560
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-05-LED-E1-RW-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Rectangular Wide Type I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29315.4 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

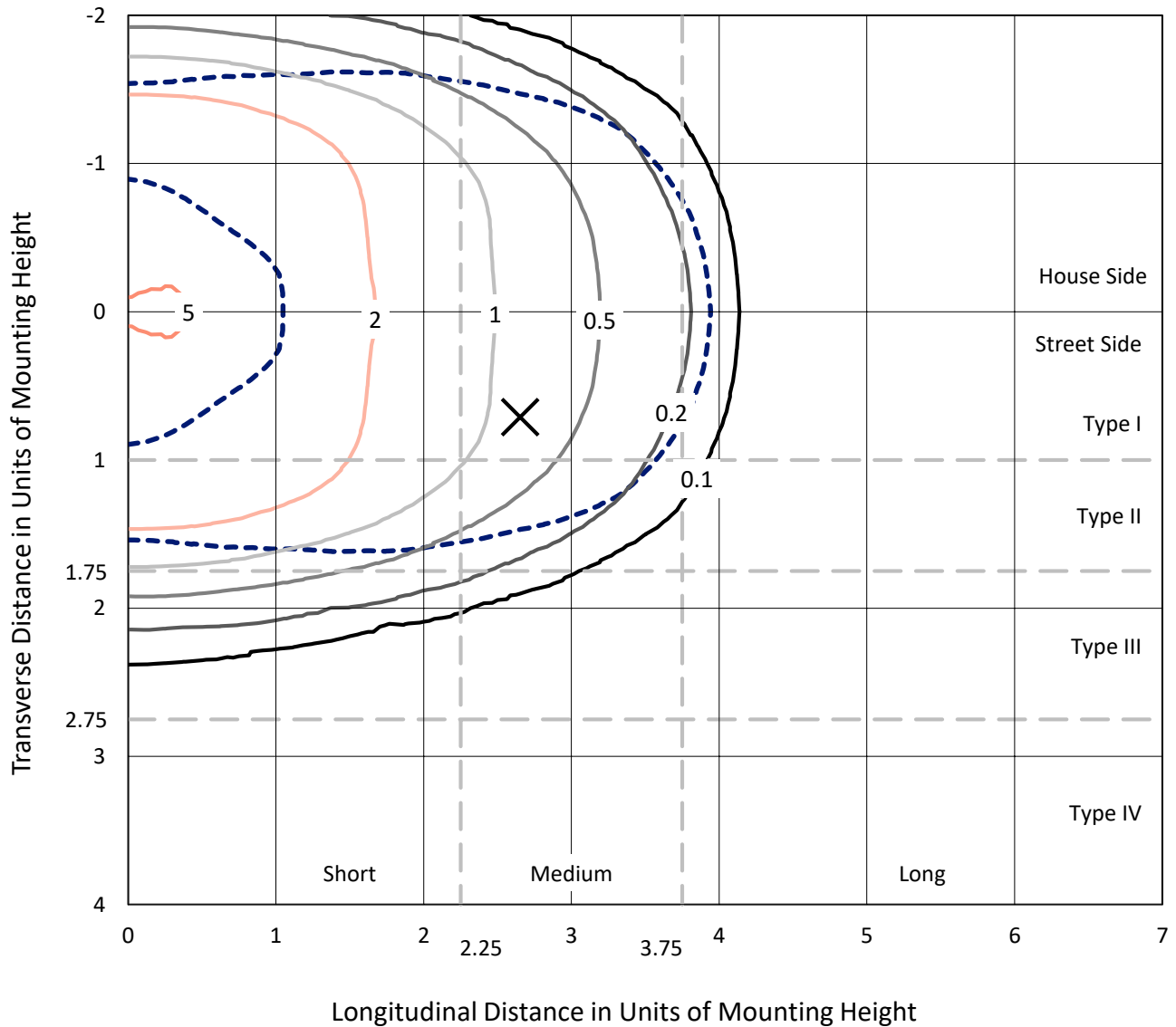
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

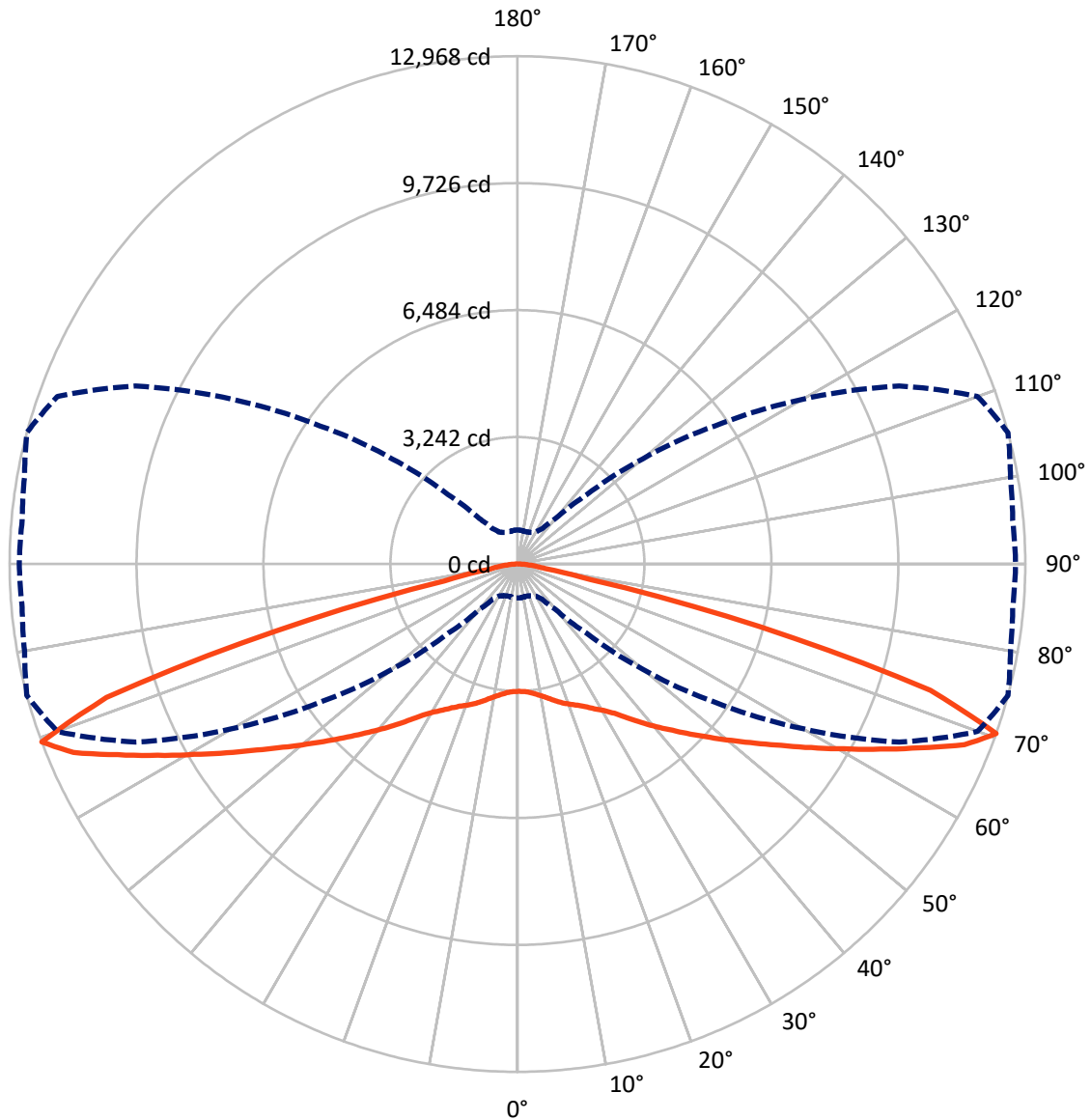
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	14657.7	0.0	14657.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14657.7	0.0	14657.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	29315.4	0.0	29315.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.9	1.1
10°-20°	969.0	3.3
20°-30°	1823.9	6.2
30°-40°	3229.7	11.0
40°-50°	5401.1	18.4
50°-60°	7526.4	25.7
60°-70°	6979.5	23.8
70°-80°	2781.6	9.5
80°-90°	292.4	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°	29315.4	100.0
0°-180°	29315.4	100.0



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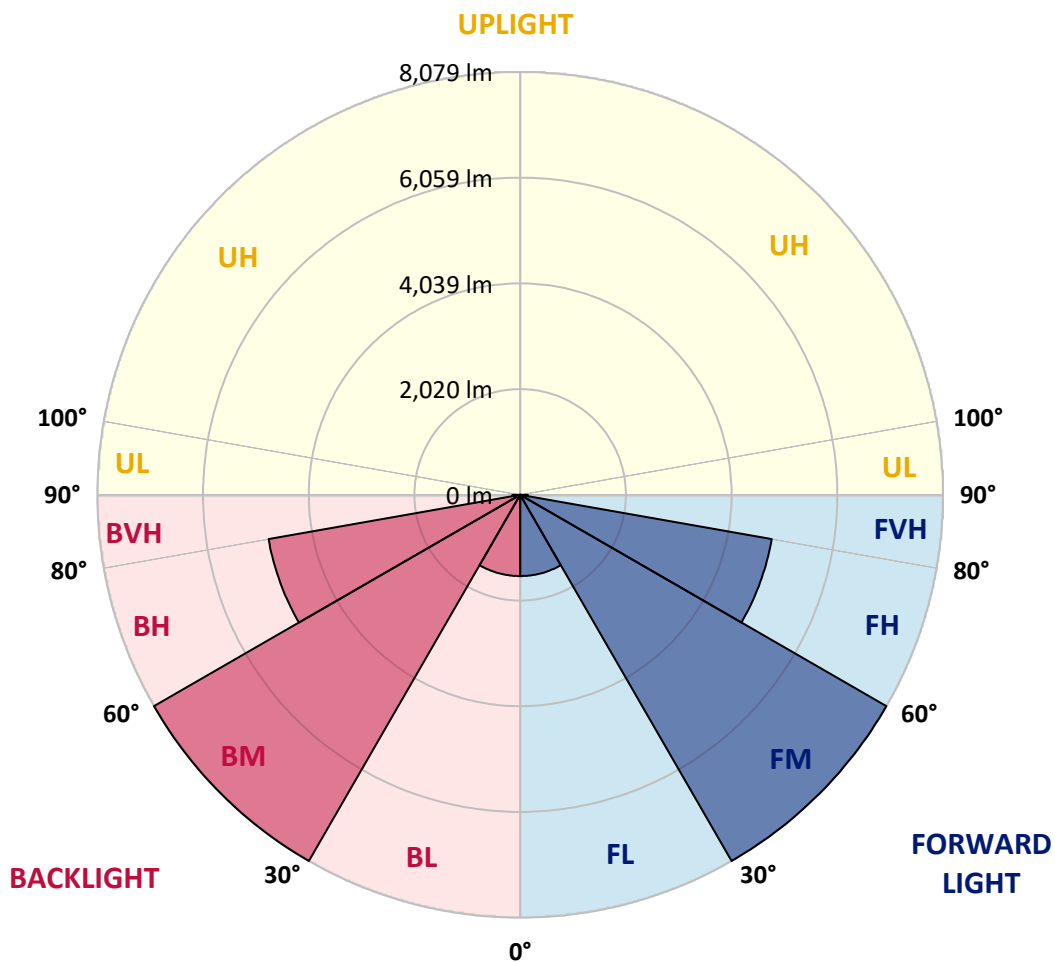
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1552.4	5.3			
FM	(30°-60°)	8078.6	27.6			
FH	(60°-80°)	4880.5	16.6			G2/5000
FVH	(80°-90°)	146.2	0.5			G2/225
BL	(0°-30°)	1552.4	5.3	B3/2500		
BM	(30°-60°)	8078.6	27.6	B4/8500		
BH	(60°-80°)	4880.5	16.6	B4/5000		G4/5000
BVH	(80°-90°)	146.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3251.8	3251.8	3251.8	3251.8	3251.8	3251.8	3251.8	3251.8	3251.8	3251.8	3251.8
2.5°	3246.2	3243.4	3246.2	3244.8	3247.6	3247.6	3250.4	3255.9	3255.9	3260.1	3258.7
5°	3214.4	3213.0	3217.1	3221.3	3225.4	3233.8	3242.1	3254.5	3264.2	3271.2	3278.1
7.5°	3152.0	3152.0	3157.5	3167.2	3176.9	3195.0	3214.4	3239.3	3264.2	3285.0	3303.0
10°	3100.7	3103.5	3110.4	3127.1	3143.7	3171.4	3197.7	3233.8	3268.4	3303.0	3330.7
12.5°	3070.3	3074.4	3086.9	3111.8	3139.5	3176.9	3217.1	3262.8	3301.6	3343.2	3370.9
15°	3080.0	3082.7	3100.7	3131.2	3167.2	3214.4	3268.4	3322.4	3368.1	3412.5	3449.9
17.5°	3134.0	3138.2	3158.9	3193.6	3231.0	3286.4	3344.6	3405.6	3462.4	3512.2	3558.0
20°	3231.0	3235.1	3261.5	3298.9	3343.2	3400.0	3458.2	3521.9	3585.7	3638.3	3689.6
22.5°	3368.1	3375.1	3400.0	3437.4	3487.3	3548.3	3617.5	3685.4	3746.4	3794.9	3840.6
25°	3548.3	3563.5	3587.1	3628.6	3681.3	3736.7	3811.5	3880.8	3939.0	3984.7	4017.9
27.5°	3803.2	3824.0	3842.0	3882.2	3933.4	3986.1	4060.9	4121.9	4177.3	4221.6	4246.5
30°	4141.3	4162.0	4180.0	4218.8	4265.9	4315.8	4386.5	4440.5	4475.2	4509.8	4508.4
32.5°	4551.4	4573.5	4580.5	4622.0	4670.5	4724.5	4788.3	4818.8	4846.5	4850.6	4825.7
35°	5010.0	5021.0	5048.8	5104.2	5159.6	5203.9	5264.9	5280.1	5280.1	5259.3	5203.9
37.5°	5512.9	5519.8	5558.6	5621.0	5677.8	5723.5	5765.1	5795.5	5780.3	5736.0	5643.1
40°	6064.3	6076.8	6132.2	6187.6	6251.4	6294.3	6338.7	6344.2	6329.0	6263.8	6137.8
42.5°	6590.8	6601.9	6657.3	6744.6	6827.7	6887.3	6928.9	6937.2	6888.7	6829.1	6672.6
45°	7043.9	7073.0	7145.0	7247.5	7368.1	7452.6	7509.4	7532.9	7490.0	7412.4	7230.9
47.5°	7402.7	7431.8	7534.3	7656.3	7805.9	7943.1	8037.3	8087.1	8076.1	8017.9	7819.7
50°	7666.0	7693.7	7804.5	7954.1	8128.7	8299.1	8459.8	8579.0	8620.6	8594.2	8412.7
52.5°	7696.4	7742.2	7872.4	8073.3	8300.5	8533.3	8761.9	8964.2	9101.3	9122.1	8987.7
55°	7271.1	7316.8	7496.9	7794.8	8132.9	8512.5	8878.3	9219.1	9489.3	9627.8	9557.2
57.5°	6268.0	6349.7	6539.5	6888.7	7386.1	7954.1	8537.4	9142.9	9692.9	10060.1	10130.8
60°	4803.5	4900.5	5091.7	5463.0	6017.2	6694.7	7473.4	8368.4	9339.6	10165.4	10658.6
62.5°	3081.3	3172.8	3373.7	3696.5	4148.2	4882.5	5717.9	6780.6	8085.8	9389.5	10564.4
65°	1583.6	1633.5	1738.8	1934.2	2286.1	2834.7	3584.3	4644.2	6136.4	7744.9	9443.6
67.5°	1003.1	1012.8	1036.4	1064.1	1154.1	1343.9	1693.1	2354.0	3581.5	5259.3	7247.5
70°	867.3	867.3	856.2	852.1	863.2	889.5	943.5	1097.3	1511.6	2496.7	4180.0
72.5°	793.9	785.6	766.2	750.9	748.2	748.2	759.3	782.8	849.3	1017.0	1636.3
75°	731.5	708.0	681.7	663.7	656.7	649.8	648.4	652.6	666.4	692.7	781.4
77.5°	655.3	624.9	594.4	576.4	568.1	558.4	550.0	540.3	533.4	541.7	580.5
80°	563.9	529.3	505.7	494.6	486.3	472.5	454.4	437.8	422.6	419.8	443.4
82.5°	454.4	414.3	415.6	419.8	404.6	385.2	365.8	347.8	321.4	307.6	321.4
85°	367.2	346.4	336.7	363.0	340.8	311.7	281.3	249.4	207.8	174.6	189.8
87.5°	142.7	142.7	213.4	328.4	295.1	241.1	206.4	176.0	109.5	84.5	85.9
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°	3251.8	3251.8	3251.8	3251.8	3251.8	3251.8	3251.8	3251.8
2.5°	3257.3	3260.1	3258.7	3257.3	3257.3	3255.9	3257.3	3257.3
5°	3282.2	3289.2	3289.2	3291.9	3291.9	3293.3	3294.7	3293.3
7.5°	3319.7	3332.1	3340.4	3350.1	3351.5	3352.9	3355.7	3352.9
10°	3357.1	3382.0	3400.0	3418.0	3426.3	3429.1	3431.9	3431.9
12.5°	3404.2	3438.8	3470.7	3502.5	3517.8	3526.1	3526.1	3531.6
15°	3481.8	3516.4	3553.8	3596.8	3623.1	3636.9	3641.1	3641.1
17.5°	3591.2	3621.7	3653.6	3695.1	3728.4	3746.4	3750.5	3749.2
20°	3718.7	3747.8	3765.8	3792.1	3821.2	3842.0	3847.5	3847.5
22.5°	3864.2	3880.8	3883.5	3891.9	3915.4	3943.1	3955.6	3958.4
25°	4024.9	4029.0	4017.9	4017.9	4033.2	4059.5	4072.0	4073.4
27.5°	4232.7	4211.9	4184.2	4174.5	4184.2	4214.7	4229.9	4235.5
30°	4491.8	4441.9	4378.2	4343.5	4338.0	4378.2	4405.9	4410.0
32.5°	4788.3	4716.2	4631.7	4561.1	4543.0	4568.0	4601.2	4599.9
35°	5140.2	5054.3	4951.8	4861.7	4820.1	4845.1	4892.2	4897.7
37.5°	5546.1	5433.9	5316.2	5202.5	5137.4	5144.4	5194.2	5210.9
40°	5999.2	5853.7	5705.5	5553.1	5460.2	5442.2	5503.2	5512.9
42.5°	6484.1	6297.1	6110.0	5921.6	5802.5	5774.8	5845.4	5841.3
45°	7000.9	6762.6	6543.7	6335.9	6194.6	6153.0	6211.2	6211.2
47.5°	7556.5	7262.8	7002.3	6766.8	6613.0	6553.4	6608.8	6613.0
50°	8145.3	7833.6	7527.4	7265.5	7081.3	7005.1	7077.1	7088.2
52.5°	8731.4	8428.0	8119.0	7819.7	7596.7	7503.9	7587.0	7623.0
55°	9325.8	9027.9	8732.8	8440.5	8175.8	8066.4	8155.0	8200.8
57.5°	9953.4	9677.7	9396.4	9101.3	8846.4	8676.0	8770.2	8831.2
60°	10689.1	10453.6	10161.2	9835.6	9577.9	9404.8	9458.8	9512.8
62.5°	11271.0	11362.5	11114.5	10737.6	10406.5	10184.8	10237.4	10294.2
65°	10989.8	11927.7	12148.0	11767.0	11308.4	10963.4	10941.3	10970.4
67.5°	9185.8	11007.8	12336.5	12699.5	12315.7	11836.3	11747.6	11790.6
70°	6144.7	8414.1	10758.4	12504.1	12968.3	12782.6	12695.3	12721.6
72.5°	2951.1	4900.5	7298.8	9619.5	11032.7	11681.1	11889.0	11990.1
75°	1079.3	1945.2	3517.8	5300.9	6399.6	7408.3	8066.4	8335.2
77.5°	651.2	785.6	1123.6	1691.7	1916.1	2144.7	2056.1	2100.4
80°	482.2	544.5	616.5	692.7	717.7	717.7	690.0	667.8
82.5°	338.1	378.2	412.9	454.4	465.5	444.7	365.8	291.0
85°	217.5	235.5	250.8	277.1	270.2	257.7	173.2	153.8
87.5°	99.8	113.6	119.2	131.6	126.1	120.5	85.9	72.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)