

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: P192753

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192753
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: GLEON-AF-05-LED-E1-RW-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29412.6 lumens
Efficiency: N/A
Efficacy: 105.4 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

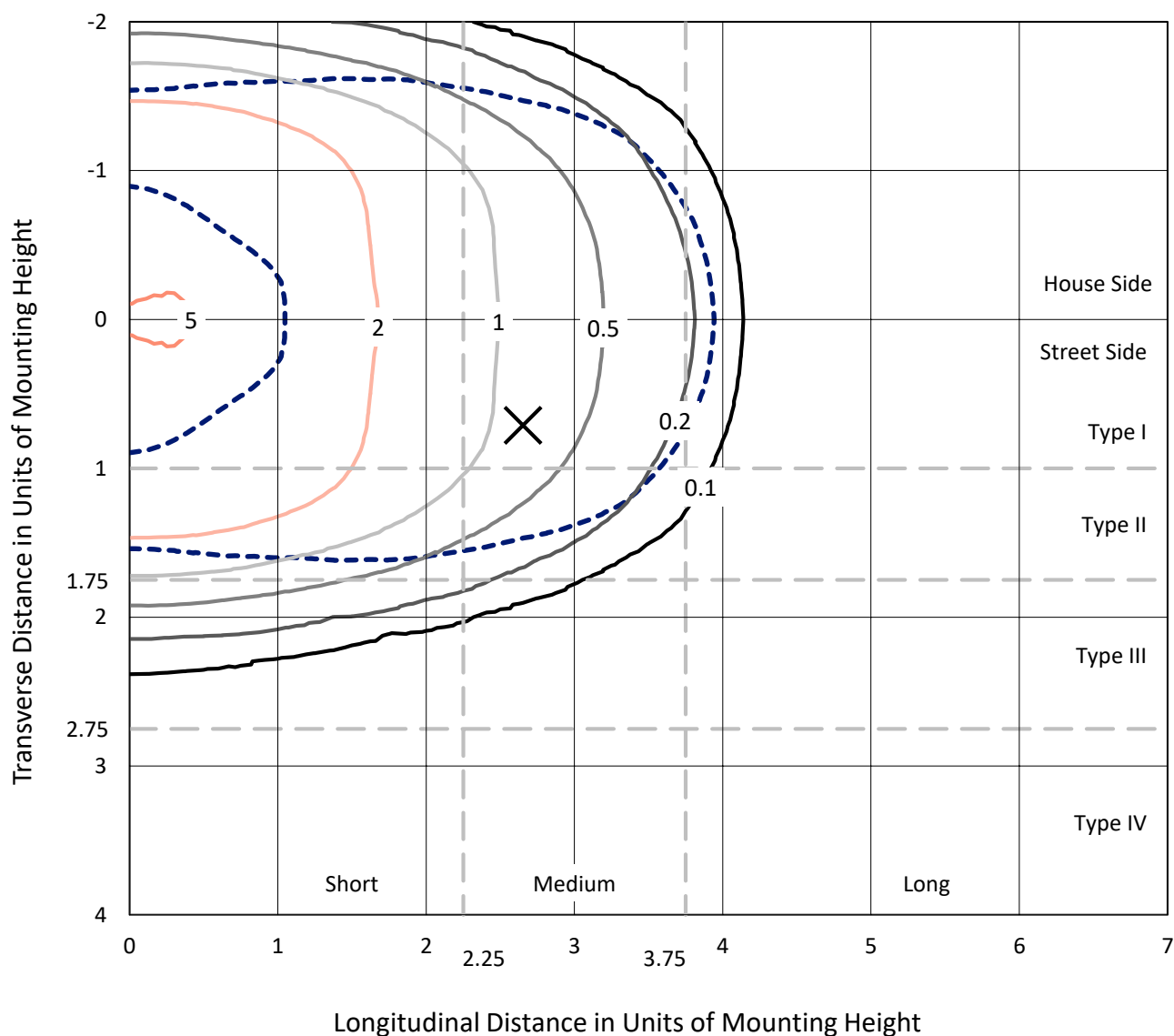


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

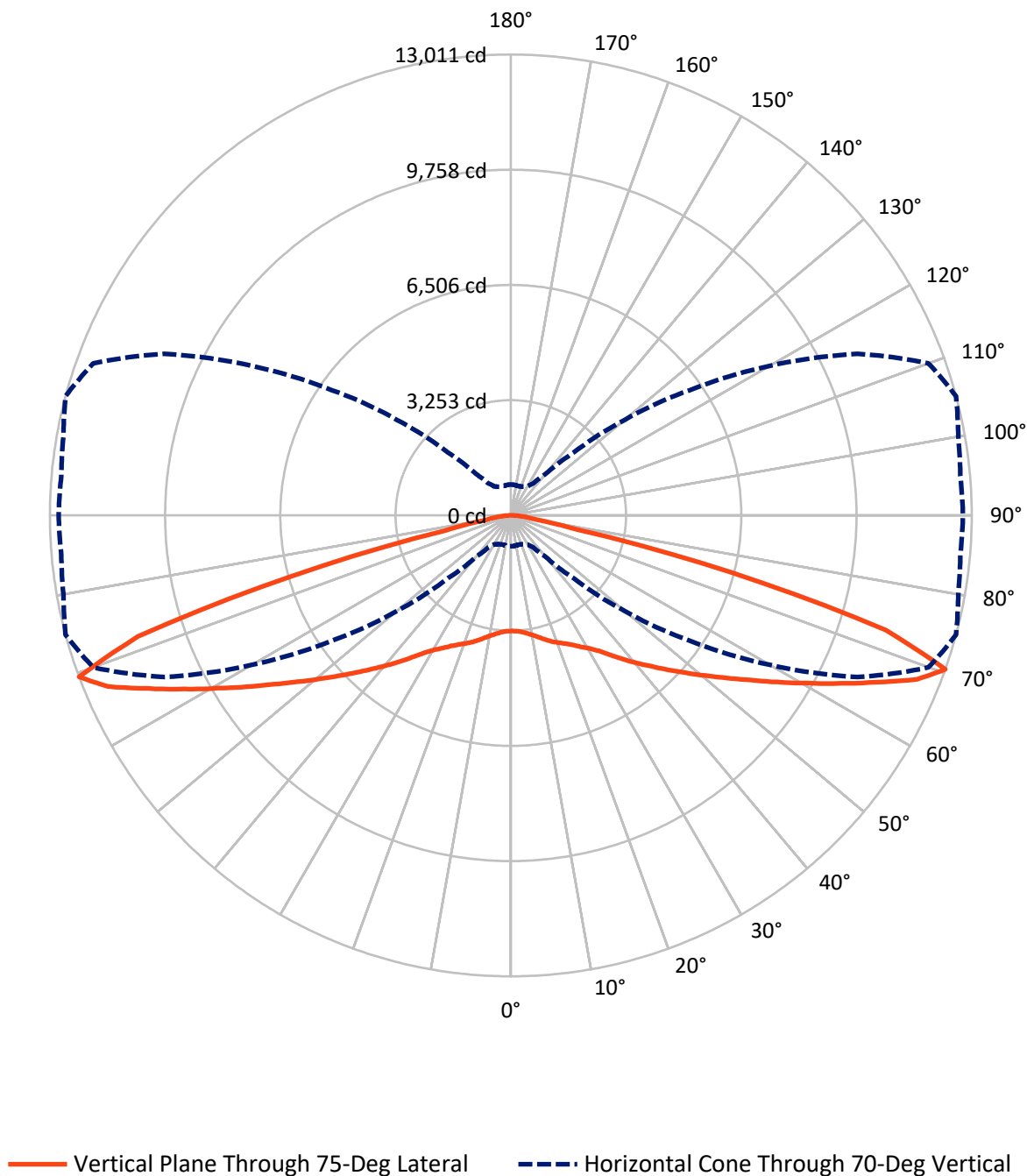


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14706.3	0.0	14706.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14706.3	0.0	14706.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	29412.6	0.0	29412.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.9	1.1
10°-20°	972.2	3.3
20°-30°	1829.9	6.2
30°-40°	3240.4	11.0
40°-50°	5419.0	18.4
50°-60°	7551.4	25.7
60°-70°	7002.7	23.8
70°-80°	2790.8	9.5
80°-90°	293.3	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°	29412.6	100.0
0°-180°	29412.6	100.0

Coefficient of Utilization



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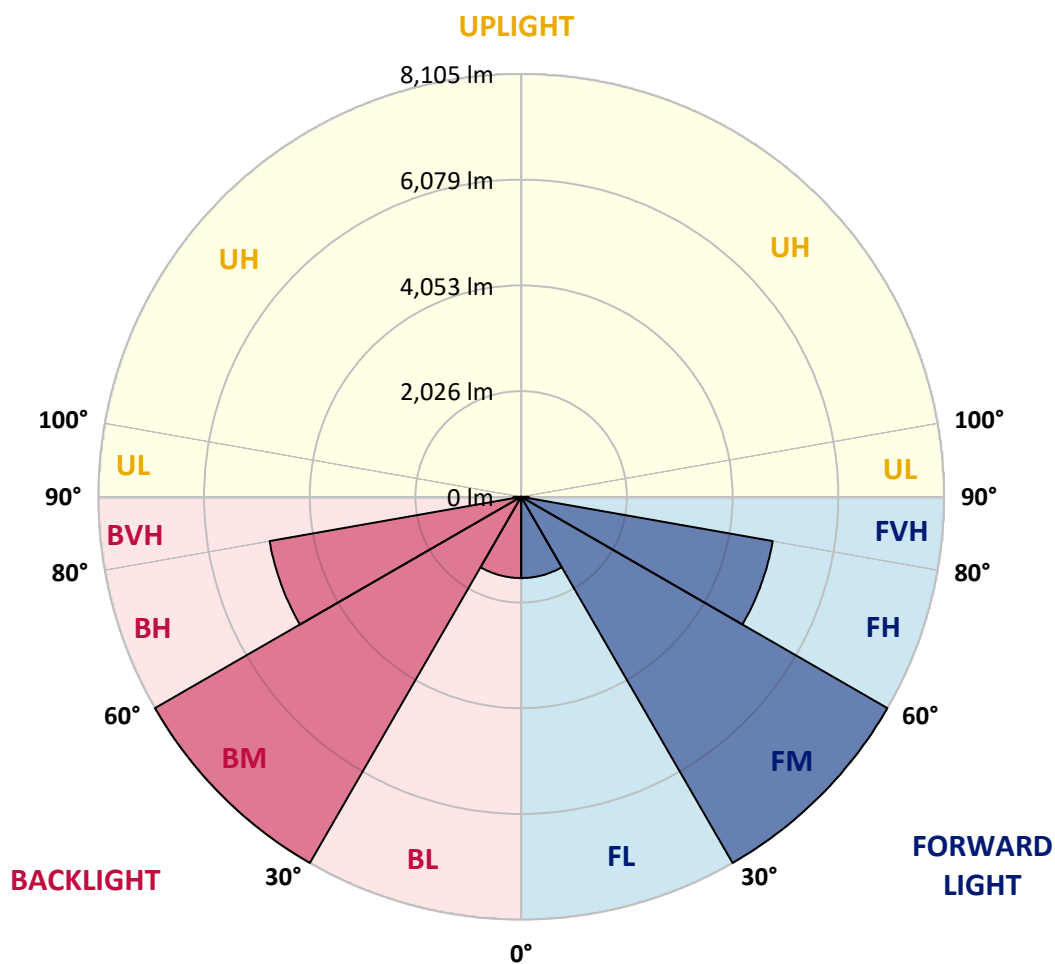
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1557.5	5.3			
FM	(30°-60°)	8105.4	27.6			
FH	(60°-80°)	4896.7	16.6			G2/5000
FVH	(80°-90°)	146.7	0.5			G2/225
BL	(0°-30°)	1557.5	5.3	B3/2500		
BM	(30°-60°)	8105.4	27.6	B4/8500		
BH	(60°-80°)	4896.7	16.6	B4/5000		G4/5000
BVH	(80°-90°)	146.7	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°	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6
2.5°	3257.0	3254.2	3257.0	3255.6	3258.3	3258.3	3261.2	3266.8	3266.8	3270.9	3269.5
5°	3225.0	3223.5	3227.7	3232.0	3236.2	3244.5	3252.7	3265.3	3275.0	3282.0	3288.9
7.5°	3162.5	3162.5	3168.0	3177.7	3187.5	3205.5	3225.0	3250.0	3275.0	3296.0	3314.0
10°	3111.0	3113.8	3120.8	3137.4	3154.1	3181.9	3208.3	3244.5	3279.2	3314.0	3341.8
12.5°	3080.4	3084.6	3097.2	3122.2	3150.0	3187.5	3227.7	3273.6	3312.6	3354.3	3382.1
15°	3090.2	3092.9	3111.0	3141.6	3177.7	3225.0	3279.2	3333.4	3379.3	3423.7	3461.4
17.5°	3144.4	3148.6	3169.4	3204.1	3241.7	3297.3	3355.7	3416.9	3473.8	3523.8	3569.7
20°	3241.7	3245.9	3272.4	3309.8	3354.3	3411.3	3469.6	3533.7	3597.6	3650.4	3701.8
22.5°	3379.3	3386.3	3411.3	3448.8	3498.8	3560.0	3629.5	3697.7	3758.8	3807.4	3853.3
25°	3560.0	3575.3	3598.9	3640.6	3693.5	3749.1	3824.2	3893.7	3952.0	3997.9	4031.2
27.5°	3815.8	3836.6	3854.6	3895.0	3946.5	3999.3	4074.4	4135.6	4191.0	4235.7	4260.7
30°	4155.0	4175.8	4193.9	4232.8	4280.1	4330.2	4401.1	4455.3	4490.0	4524.8	4523.4
32.5°	4566.5	4588.7	4595.7	4637.3	4686.0	4740.2	4804.1	4834.7	4862.6	4866.7	4841.8
35°	5026.6	5037.7	5065.5	5121.1	5176.7	5221.2	5282.3	5297.7	5297.7	5276.7	5221.2
37.5°	5531.1	5538.2	5577.0	5639.6	5696.6	5742.4	5784.1	5814.8	5799.5	5755.0	5661.9
40°	6084.4	6096.8	6152.5	6208.1	6272.1	6315.1	6359.7	6365.2	6349.9	6284.6	6158.1
42.5°	6612.7	6623.8	6679.3	6767.0	6850.3	6910.1	6951.8	6960.2	6911.5	6851.7	6694.7
45°	7067.2	7096.4	7168.7	7271.5	7392.5	7477.2	7534.3	7557.9	7514.9	7436.9	7255.0
47.5°	7427.2	7456.4	7559.3	7681.7	7831.8	7969.4	8063.9	8113.9	8102.8	8044.4	7845.7
50°	7691.5	7719.1	7830.4	7980.6	8155.6	8326.6	8488.0	8607.5	8649.2	8622.7	8440.6
52.5°	7721.9	7767.8	7898.5	8100.1	8328.1	8561.5	8790.9	8993.9	9131.5	9152.3	9017.5
55°	7295.2	7341.0	7521.7	7820.7	8159.8	8540.7	8907.7	9249.7	9520.8	9659.7	9588.8
57.5°	6288.8	6370.8	6561.2	6911.5	7410.6	7980.6	8565.7	9173.2	9725.0	10093.5	10164.4
60°	4819.4	4916.7	5108.6	5481.1	6037.1	6716.9	7498.1	8396.1	9370.6	10199.2	10694.0
62.5°	3091.6	3183.3	3384.9	3708.8	4161.9	4898.6	5736.8	6803.1	8112.6	9420.7	10599.5
65°	1588.8	1638.9	1744.6	1940.6	2293.7	2844.1	3596.2	4659.6	6156.8	7770.6	9474.9
67.5°	1006.4	1016.1	1039.8	1067.6	1157.9	1348.4	1698.7	2361.7	3593.4	5276.7	7271.5
70°	870.2	870.2	859.1	855.0	866.0	892.4	946.6	1101.0	1516.6	2505.0	4193.9
72.5°	796.5	788.2	768.7	753.5	750.6	750.6	761.7	785.3	852.1	1020.4	1641.7
75°	734.0	710.3	684.0	665.8	659.0	651.9	650.5	654.7	668.6	695.0	784.1
77.5°	657.5	626.9	596.3	578.3	569.9	560.2	551.9	542.2	535.2	543.6	582.5
80°	565.8	531.0	507.4	496.2	488.0	473.9	455.9	439.2	423.9	421.2	444.8
82.5°	455.9	415.6	417.1	421.2	405.9	386.4	367.0	348.9	322.6	308.5	322.6
85°	368.4	347.6	337.8	364.2	342.0	312.8	282.2	250.2	208.4	175.2	190.4
87.5°	143.1	143.1	214.0	329.4	296.1	241.9	207.1	176.6	109.8	84.7	86.2
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°	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6	3262.6
2.5°	3268.1	3270.9	3269.5	3268.1	3268.1	3266.8	3268.1	3268.1
5°	3293.1	3300.0	3300.0	3302.9	3302.9	3304.2	3305.6	3304.2
7.5°	3330.7	3343.2	3351.5	3361.3	3362.7	3364.0	3366.9	3364.0
10°	3368.1	3393.3	3411.3	3429.3	3437.8	3440.5	3443.3	3443.3
12.5°	3415.5	3450.2	3482.2	3514.1	3529.4	3537.9	3537.9	3543.4
15°	3493.3	3528.1	3565.5	3608.8	3635.0	3649.0	3653.2	3653.2
17.5°	3603.2	3633.8	3665.6	3707.3	3740.7	3758.8	3763.0	3761.6
20°	3730.9	3760.1	3778.3	3804.6	3833.9	3854.6	3860.2	3860.2
22.5°	3876.9	3893.7	3896.4	3904.8	3928.4	3956.2	3968.8	3971.5
25°	4038.2	4042.4	4031.2	4031.2	4046.5	4072.9	4085.4	4086.9
27.5°	4246.7	4225.8	4198.1	4188.4	4198.1	4228.7	4243.9	4249.5
30°	4506.7	4456.5	4392.7	4358.0	4352.4	4392.7	4420.5	4424.7
32.5°	4804.1	4731.9	4647.2	4576.3	4558.1	4583.1	4616.5	4615.1
35°	5157.2	5071.0	4968.2	4877.9	4836.2	4861.2	4908.4	4913.9
37.5°	5564.6	5451.9	5333.8	5219.8	5154.5	5161.4	5211.4	5228.2
40°	6019.1	5873.1	5724.4	5571.4	5478.4	5460.2	5521.4	5531.1
42.5°	6505.7	6317.9	6130.3	5941.3	5821.7	5793.9	5864.8	5860.6
45°	7024.2	6785.0	6565.4	6356.9	6215.1	6173.3	6231.8	6231.8
47.5°	7581.5	7286.8	7025.5	6789.2	6634.9	6575.1	6630.7	6634.9
50°	8172.4	7859.6	7552.3	7289.7	7104.8	7028.3	7100.5	7111.6
52.5°	8760.3	8455.9	8146.0	7845.7	7621.8	7528.7	7612.1	7648.2
55°	9356.8	9057.8	8761.7	8468.4	8202.9	8093.1	8182.1	8228.0
57.5°	9986.4	9709.8	9427.6	9131.5	8875.6	8704.8	8799.3	8860.5
60°	10724.6	10488.3	10194.9	9868.3	9609.7	9435.9	9490.1	9544.4
62.5°	11308.4	11400.1	11151.3	10773.2	10441.0	10218.6	10271.4	10328.4
65°	11026.2	11967.2	12188.3	11806.0	11345.9	10999.7	10977.5	11006.8
67.5°	9216.3	11044.3	12377.3	12741.6	12356.5	11875.5	11786.6	11829.7
70°	6165.1	8442.0	10794.0	12545.5	13011.2	12825.0	12737.5	12763.7
72.5°	2960.9	4916.7	7323.0	9651.4	11069.3	11719.8	11928.4	12029.9
75°	1082.9	1951.7	3529.4	5318.5	6420.8	7432.8	8093.1	8362.8
77.5°	653.4	788.2	1127.3	1697.4	1922.5	2151.9	2063.0	2107.4
80°	483.8	546.3	618.6	695.0	720.0	720.0	692.2	670.0
82.5°	339.1	379.4	414.2	455.9	467.1	446.3	367.0	291.9
85°	218.2	236.3	251.7	278.1	271.1	258.5	173.7	154.3
87.5°	100.1	113.9	119.5	132.1	126.5	121.0	86.2	72.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)