

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: P192736

Luminaire Tested: **GLEON-AF-08-LED-E1-RW-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192736
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-08-LED-E1-RW-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31074.4 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 257
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



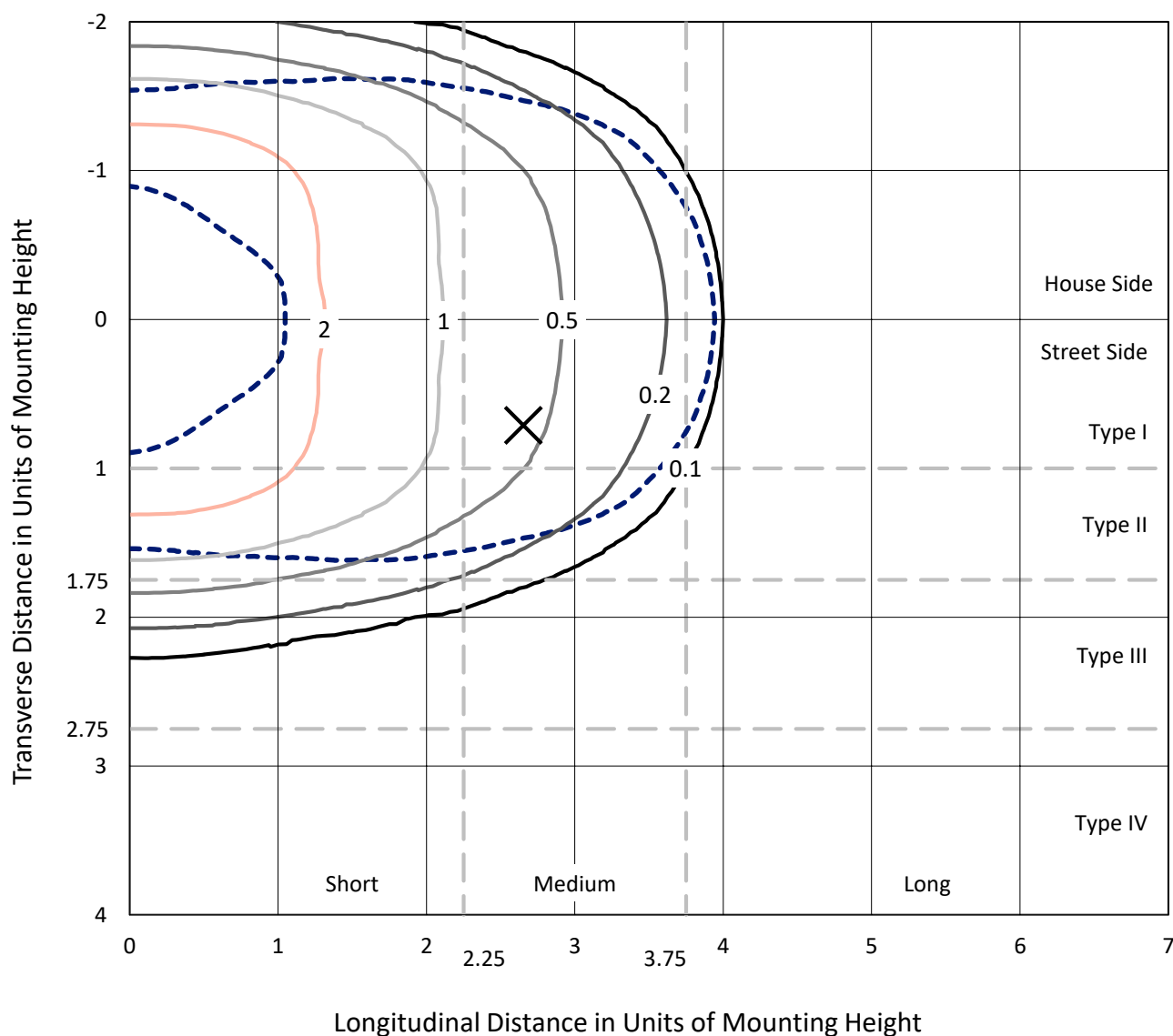
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

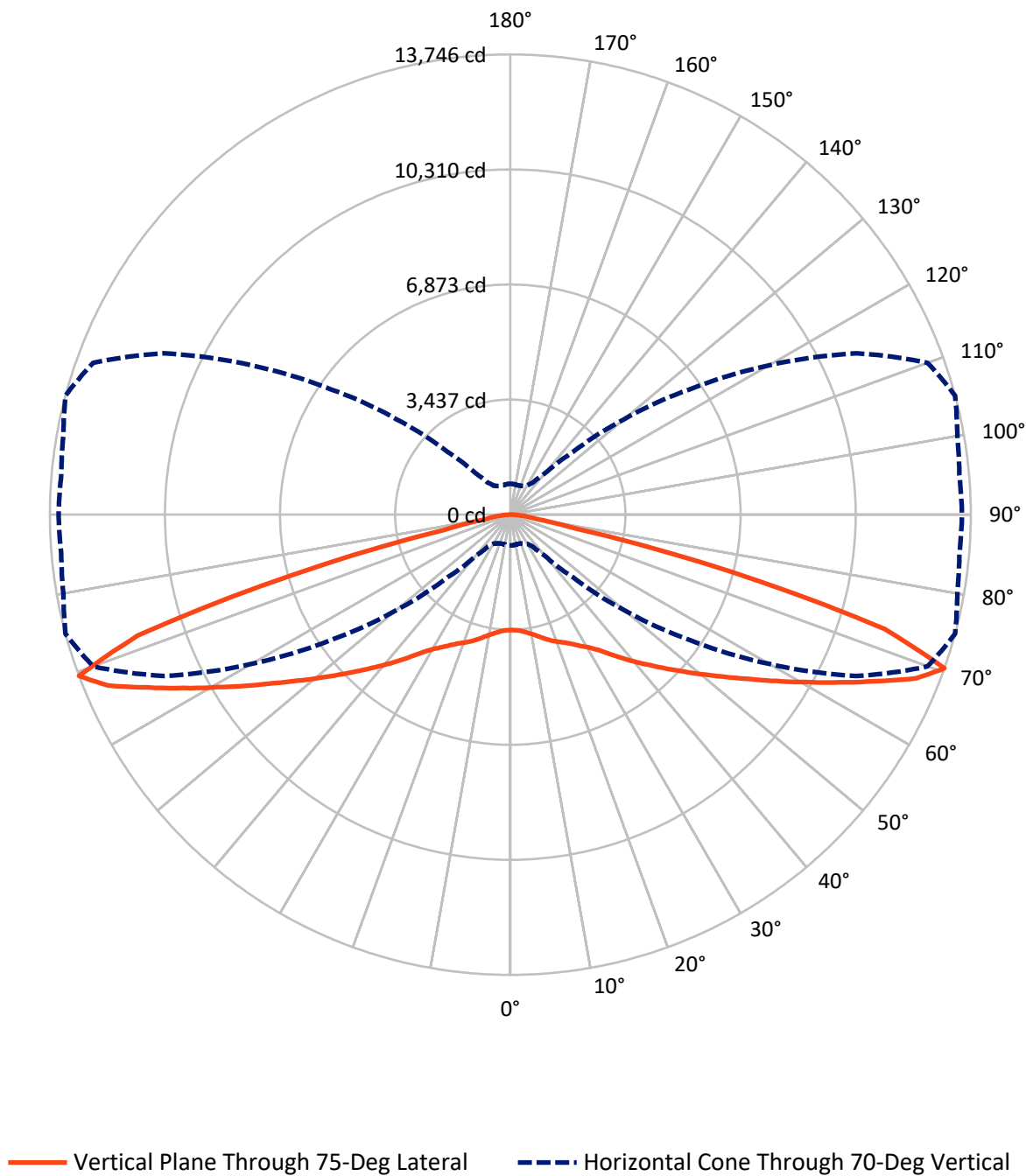


Based on 30 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15537.2	0.0	15537.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15537.2	0.0	15537.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	31074.4	0.0	31074.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.6	1.1
10°-20°	1027.2	3.3
20°-30°	1933.3	6.2
30°-40°	3423.5	11.0
40°-50°	5725.2	18.4
50°-60°	7978.0	25.7
60°-70°	7398.3	23.8
70°-80°	2948.5	9.5
80°-90°	309.9	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°	31074.4	100.0
0°-180°	31074.4	100.0

Coefficient of Utilization



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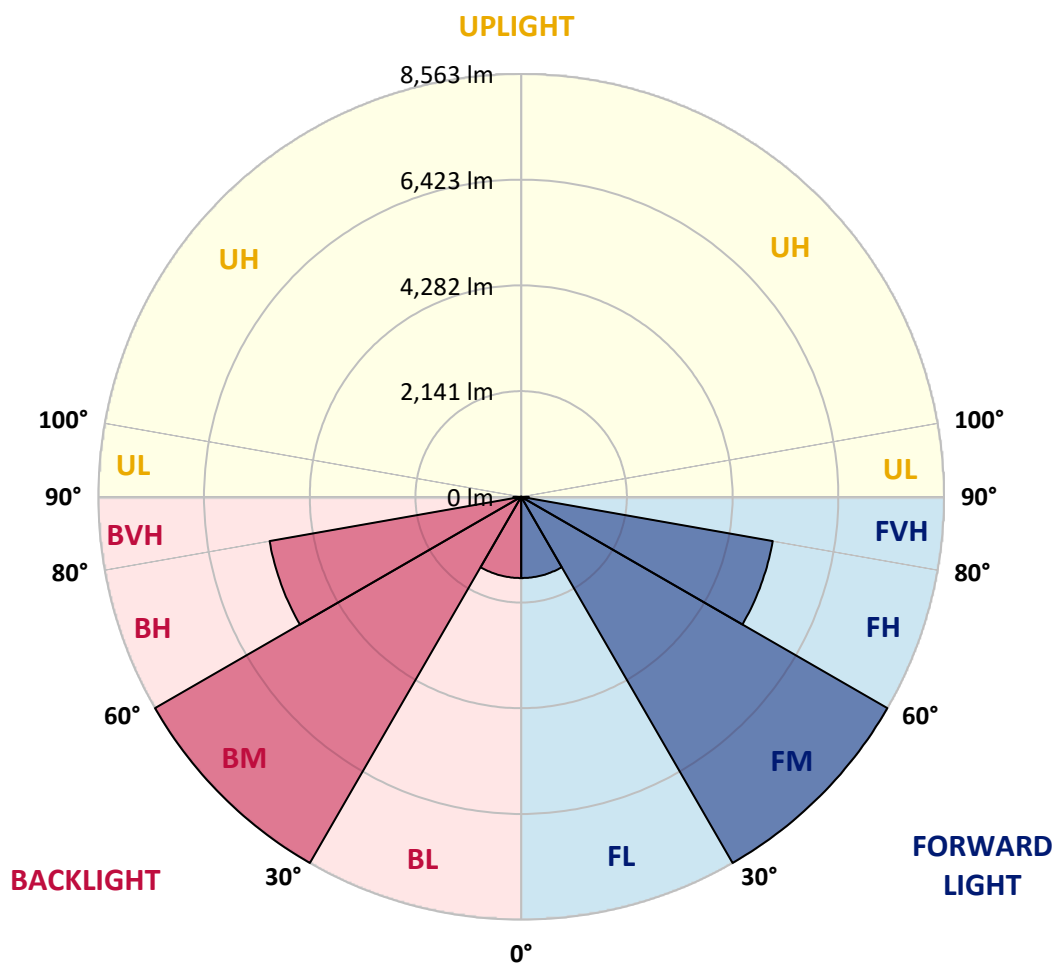
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1645.5	5.3			
FM	(30°-60°)	8563.3	27.6			
FH	(60°-80°)	5173.4	16.6			G3/7500
FVH	(80°-90°)	155.0	0.5			G2/225
BL	(0°-30°)	1645.5	5.3	B3/2500		
BM	(30°-60°)	8563.3	27.6	B5		
BH	(60°-80°)	5173.4	16.6	B5		G5
BVH	(80°-90°)	155.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3446.9	3446.9	3446.9	3446.9	3446.9	3446.9	3446.9	3446.9	3446.9	3446.9	3446.9
2.5°	3441.0	3438.1	3441.0	3439.5	3442.4	3442.4	3445.4	3451.3	3451.3	3455.7	3454.2
5°	3407.2	3405.7	3410.2	3414.6	3418.9	3427.8	3436.6	3449.9	3460.1	3467.5	3474.8
7.5°	3341.1	3341.1	3347.0	3357.3	3367.6	3386.7	3407.2	3433.7	3460.1	3482.1	3501.2
10°	3286.8	3289.7	3297.1	3314.7	3332.3	3361.7	3389.6	3427.8	3464.5	3501.2	3530.6
12.5°	3254.5	3258.8	3272.1	3298.5	3327.9	3367.6	3410.2	3458.6	3499.8	3543.9	3573.3
15°	3264.7	3267.7	3286.8	3319.1	3357.3	3407.2	3464.5	3521.8	3570.3	3617.2	3656.9
17.5°	3322.0	3326.4	3348.5	3385.2	3424.8	3483.6	3545.3	3609.9	3670.1	3723.0	3771.4
20°	3424.8	3429.2	3457.2	3496.9	3543.9	3604.0	3665.7	3733.3	3800.8	3856.7	3910.9
22.5°	3570.3	3577.5	3604.0	3643.7	3696.6	3761.1	3834.6	3906.6	3971.1	4022.6	4071.0
25°	3761.1	3777.3	3802.3	3846.4	3902.2	3960.8	4040.2	4113.6	4175.4	4223.8	4259.0
27.5°	4031.3	4053.4	4072.5	4115.1	4169.5	4225.3	4304.6	4369.2	4427.9	4474.9	4501.4
30°	4389.7	4411.8	4430.9	4472.0	4521.9	4574.8	4649.6	4707.0	4743.7	4780.4	4778.9
32.5°	4824.5	4848.0	4855.3	4899.4	4950.7	5008.0	5075.6	5107.9	5137.3	5141.6	5115.2
35°	5310.5	5322.3	5351.7	5410.4	5469.2	5516.2	5580.9	5597.0	5597.0	5575.0	5516.2
37.5°	5843.7	5851.1	5892.2	5958.2	6018.4	6066.9	6111.0	6143.3	6127.2	6080.2	5981.7
40°	6428.2	6441.4	6500.2	6559.0	6626.5	6672.0	6719.0	6724.9	6708.7	6639.6	6506.1
42.5°	6986.2	6998.0	7056.7	7149.3	7237.5	7300.6	7344.6	7353.4	7302.1	7238.9	7072.9
45°	7466.6	7497.4	7573.8	7682.4	7810.2	7899.8	7960.0	7985.0	7939.5	7857.2	7664.7
47.5°	7846.9	7877.7	7986.5	8115.7	8274.3	8419.6	8519.5	8572.4	8560.7	8498.9	8289.0
50°	8125.9	8155.3	8272.8	8431.4	8616.5	8797.1	8967.5	9093.7	9137.8	9109.9	8917.5
52.5°	8158.3	8206.7	8344.7	8557.7	8798.5	9045.3	9287.6	9502.1	9647.5	9669.5	9527.0
55°	7707.3	7755.9	7946.8	8262.5	8620.9	9023.2	9410.9	9772.2	10058.6	10205.5	10130.6
57.5°	6644.0	6730.7	6932.0	7302.1	7829.3	8431.4	9049.7	9691.6	10274.5	10663.7	10738.6
60°	5091.7	5194.5	5397.2	5790.8	6378.2	7096.4	7921.9	8870.5	9900.1	10775.3	11298.2
62.5°	3266.2	3363.2	3576.2	3918.2	4397.0	5175.5	6061.0	7187.5	8571.0	9952.9	11198.3
65°	1678.7	1731.5	1843.1	2050.2	2423.3	3004.8	3799.4	4922.9	6504.5	8209.6	10010.3
67.5°	1063.3	1073.6	1098.5	1127.9	1223.3	1424.5	1794.7	2495.2	3796.4	5575.0	7682.4
70°	919.4	919.4	907.6	903.2	914.9	942.9	1000.2	1163.2	1602.3	2646.5	4430.9
72.5°	841.6	832.7	812.2	796.0	793.1	793.1	804.8	829.9	900.3	1078.0	1734.5
75°	775.4	750.5	722.5	703.5	696.1	688.8	687.4	691.7	706.4	734.3	828.3
77.5°	694.7	662.3	630.0	611.0	602.1	591.8	583.0	572.7	565.4	574.2	615.3
80°	597.7	561.0	536.0	524.3	515.4	500.9	481.8	464.2	448.0	445.0	470.0
82.5°	481.8	439.1	440.7	445.0	428.9	408.3	387.8	368.6	340.7	326.0	340.7
85°	389.2	367.1	356.8	384.8	361.3	330.4	298.2	264.4	220.2	185.0	201.2
87.5°	151.3	151.3	226.1	348.1	312.8	255.5	218.8	186.5	116.1	89.6	91.0
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°	3446.9	3446.9	3446.9	3446.9	3446.9	3446.9	3446.9	3446.9
2.5°	3452.7	3455.7	3454.2	3452.7	3452.7	3451.3	3452.7	3452.7
5°	3479.2	3486.6	3486.6	3489.5	3489.5	3491.0	3492.4	3491.0
7.5°	3518.8	3532.1	3540.9	3551.2	3552.6	3554.1	3557.1	3554.1
10°	3558.5	3584.9	3604.0	3623.1	3631.9	3634.8	3637.8	3637.8
12.5°	3608.4	3645.1	3678.9	3712.7	3728.9	3737.6	3737.6	3743.6
15°	3690.7	3727.4	3767.0	3812.6	3840.5	3855.1	3859.6	3859.6
17.5°	3806.7	3839.1	3872.8	3916.8	3952.1	3971.1	3975.6	3974.1
20°	3941.8	3972.6	3991.8	4019.6	4050.5	4072.5	4078.4	4078.4
22.5°	4096.0	4113.6	4116.6	4125.4	4150.3	4179.7	4193.0	4195.9
25°	4266.3	4270.7	4259.0	4259.0	4275.2	4303.0	4316.3	4317.8
27.5°	4486.6	4464.7	4435.3	4425.0	4435.3	4467.6	4483.8	4489.6
30°	4761.3	4708.4	4640.9	4604.1	4598.2	4640.9	4670.3	4674.6
32.5°	5075.6	4999.2	4909.7	4834.7	4815.6	4842.1	4877.4	4875.8
35°	5448.6	5357.5	5249.0	5153.4	5109.4	5135.8	5185.8	5191.6
37.5°	5878.9	5759.9	5635.1	5514.8	5445.7	5453.0	5505.9	5523.5
40°	6359.2	6205.0	6047.8	5886.3	5787.9	5768.8	5833.4	5843.7
42.5°	6873.2	6674.9	6476.7	6277.0	6150.6	6121.2	6196.2	6191.7
45°	7421.0	7168.4	6936.4	6716.0	6566.3	6522.2	6583.9	6583.9
47.5°	8009.9	7698.5	7422.4	7172.8	7009.7	6946.6	7005.3	7009.7
50°	8634.1	8303.6	7979.1	7701.4	7506.2	7425.4	7501.7	7513.5
52.5°	9255.4	8933.7	8606.2	8289.0	8052.5	7954.1	8042.2	8080.4
55°	9885.3	9569.6	9256.8	8946.9	8666.5	8550.4	8644.4	8692.7
57.5°	10550.6	10258.4	9960.3	9647.5	9377.1	9196.6	9296.5	9361.0
60°	11330.5	11080.8	10771.0	10425.8	10152.7	9969.1	10026.4	10083.6
62.5°	11947.3	12044.2	11781.3	11381.9	11031.0	10795.9	10851.7	10911.9
65°	11649.2	12643.5	12877.0	12473.0	11987.0	11621.3	11597.8	11628.6
67.5°	9737.0	11668.3	13076.7	13461.5	13054.7	12546.6	12452.5	12498.0
70°	6513.4	8919.1	11403.9	13254.4	13746.4	13549.6	13457.0	13485.0
72.5°	3128.2	5194.5	7736.7	10196.7	11694.7	12382.1	12602.3	12709.6
75°	1144.1	2061.9	3728.9	5618.9	6783.6	7852.8	8550.4	8835.2
77.5°	690.3	832.7	1191.0	1793.2	2031.1	2273.4	2179.4	2226.4
80°	511.2	577.2	653.6	734.3	760.8	760.8	731.4	707.9
82.5°	358.4	401.0	437.7	481.8	493.5	471.5	387.8	308.4
85°	230.5	249.6	265.8	293.7	286.4	273.1	183.5	163.1
87.5°	105.8	120.4	126.3	139.6	133.7	127.8	91.0	76.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)