

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: P269301

Luminaire Tested: **GLEON-AF-05-LED-E1-RW-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269301
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-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26421.5 lumens
Efficiency: N/A
Efficacy: 94.7 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

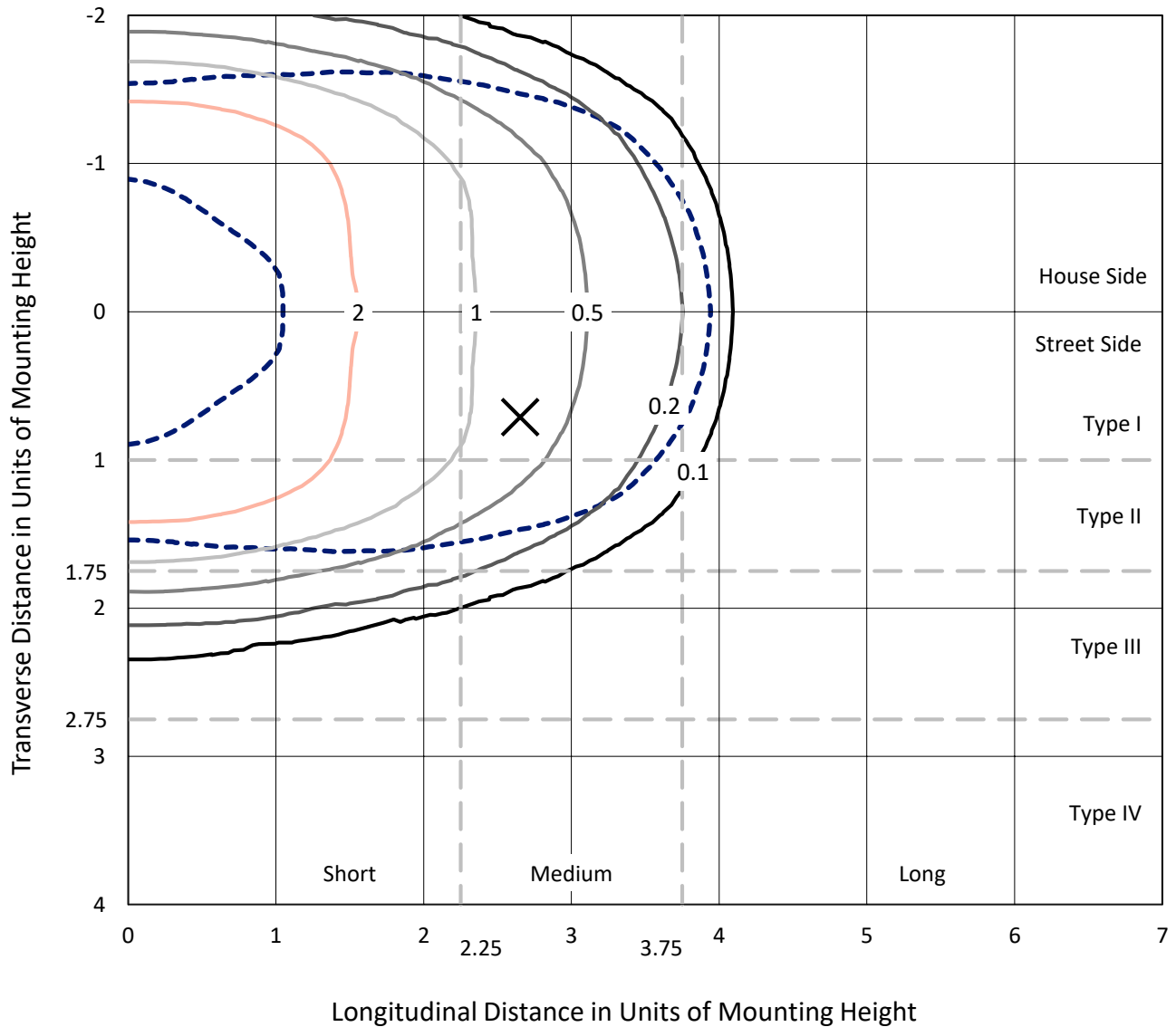
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

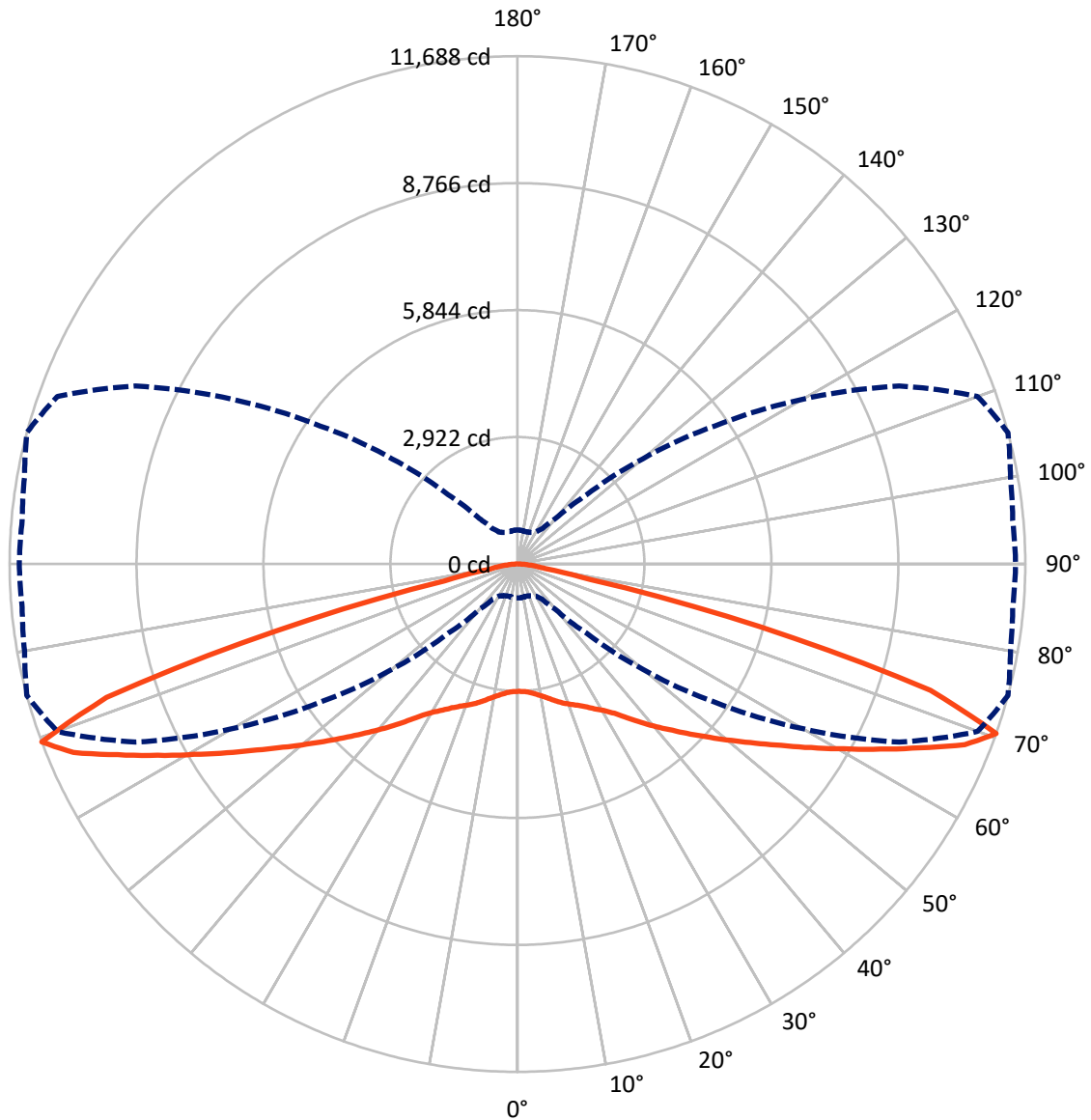
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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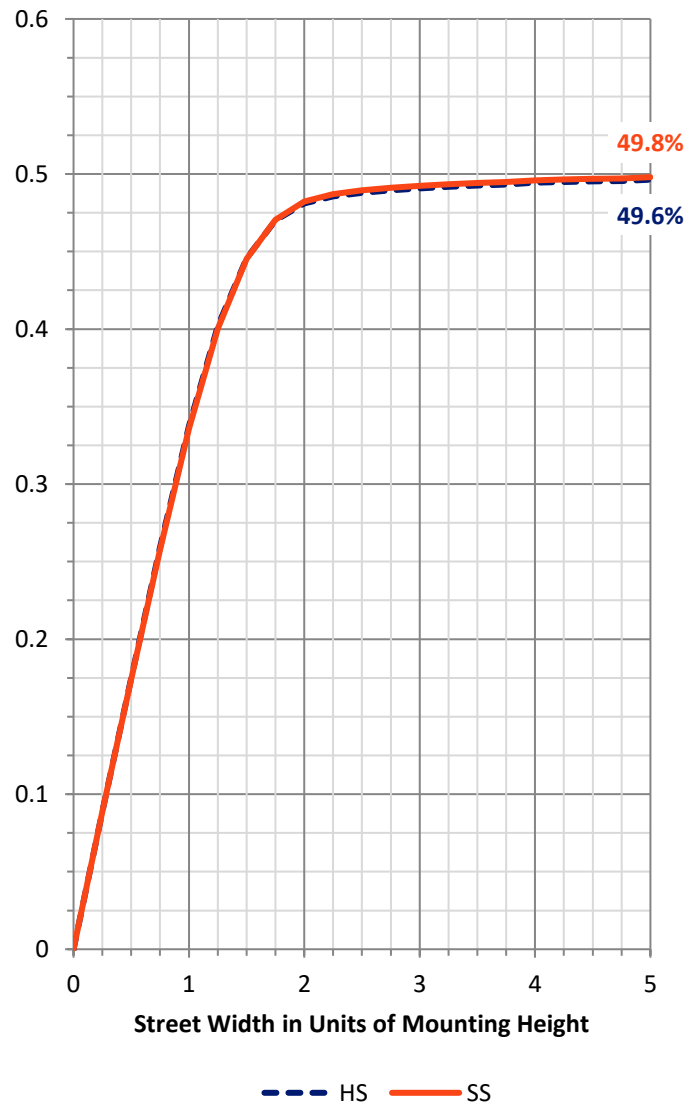
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13210.7	0.0	13210.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13210.7	0.0	13210.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	26421.5	0.0	26421.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.1	1.1
10°-20°	873.4	3.3
20°-30°	1643.8	6.2
30°-40°	2910.9	11.0
40°-50°	4867.9	18.4
50°-60°	6783.4	25.7
60°-70°	6290.5	23.8
70°-80°	2507.0	9.5
80°-90°	263.5	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°	26421.5	100.0
0°-180°	26421.5	100.0



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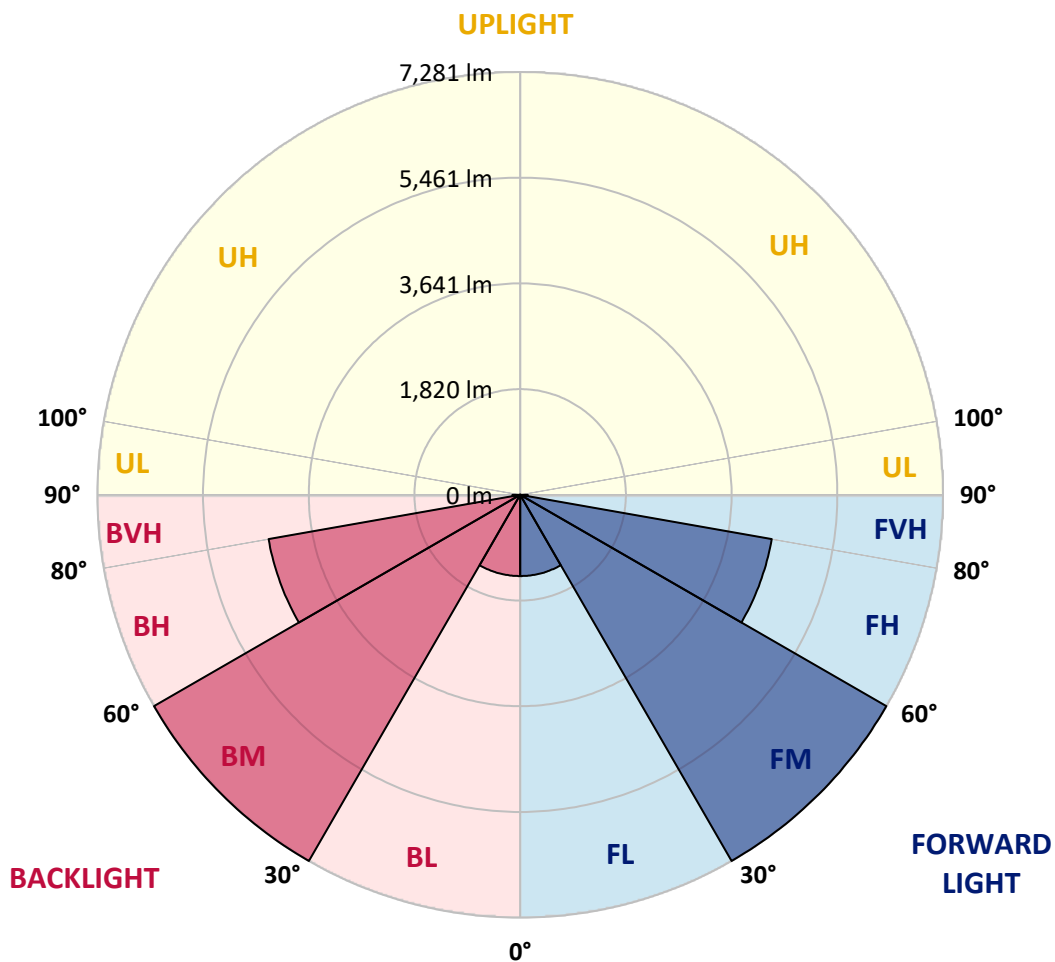
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1399.1	5.3			
FM	(30°-60°)	7281.1	27.6			
FH	(60°-80°)	4398.8	16.6			G2/5000
FVH	(80°-90°)	131.8	0.5			G2/225
BL	(0°-30°)	1399.1	5.3	B3/2500		
BM	(30°-60°)	7281.1	27.6	B4/8500		
BH	(60°-80°)	4398.8	16.6	B4/5000		G4/5000
BVH	(80°-90°)	131.8	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°	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8
2.5°	2925.8	2923.3	2925.8	2924.5	2926.9	2926.9	2929.6	2934.6	2934.6	2938.3	2937.0
5°	2897.0	2895.7	2899.5	2903.3	2907.1	2914.6	2921.9	2933.2	2941.9	2948.2	2954.4
7.5°	2840.9	2840.9	2845.8	2854.5	2863.3	2879.5	2897.0	2919.5	2941.9	2960.8	2977.0
10°	2794.6	2797.1	2803.4	2818.3	2833.3	2858.3	2882.0	2914.6	2945.7	2977.0	3002.0
12.5°	2767.1	2770.9	2782.2	2804.7	2829.7	2863.3	2899.5	2940.7	2975.7	3013.2	3038.2
15°	2775.9	2778.4	2794.6	2822.1	2854.5	2897.0	2945.7	2994.4	3035.6	3075.5	3109.4
17.5°	2824.6	2828.4	2847.1	2878.3	2912.0	2962.0	3014.4	3069.4	3120.5	3165.4	3206.7
20°	2912.0	2915.8	2939.6	2973.2	3013.2	3064.4	3116.8	3174.3	3231.7	3279.2	3325.3
22.5°	3035.6	3041.9	3064.4	3098.1	3143.0	3198.0	3260.4	3321.7	3376.5	3420.2	3461.4
25°	3198.0	3211.7	3232.9	3270.4	3317.9	3367.8	3435.3	3497.7	3550.1	3591.3	3621.2
27.5°	3427.8	3446.4	3462.6	3498.9	3545.2	3592.6	3660.1	3715.0	3764.8	3805.0	3827.4
30°	3732.5	3751.1	3767.4	3802.3	3844.8	3889.8	3953.5	4002.2	4033.4	4064.7	4063.4
32.5°	4102.1	4122.1	4128.3	4165.7	4209.5	4258.1	4315.5	4343.0	4368.1	4371.8	4349.4
35°	4515.4	4525.4	4550.4	4600.3	4650.3	4690.2	4745.1	4759.0	4759.0	4740.1	4690.2
37.5°	4968.6	4975.0	5009.8	5066.1	5117.3	5158.4	5195.9	5223.5	5209.7	5169.7	5086.1
40°	5465.6	5476.8	5526.8	5576.8	5634.3	5672.9	5713.0	5717.9	5704.1	5645.5	5531.9
42.5°	5940.2	5950.2	6000.0	6078.8	6153.7	6207.4	6244.8	6252.4	6208.6	6154.9	6013.9
45°	6348.5	6374.7	6439.7	6532.0	6640.7	6716.8	6768.1	6789.3	6750.7	6680.6	6517.2
47.5°	6671.9	6698.1	6790.6	6900.5	7035.3	7159.0	7243.8	7288.8	7278.8	7226.3	7047.8
50°	6909.3	6934.1	7034.1	7169.0	7326.2	7479.8	7624.8	7732.2	7769.6	7745.8	7582.2
52.5°	6936.6	6977.9	7095.3	7276.4	7481.2	7690.8	7896.9	8079.3	8202.9	8221.6	8100.5
55°	6553.3	6594.5	6756.8	7025.4	7330.0	7672.2	8001.8	8309.1	8552.6	8677.4	8613.7
57.5°	5649.3	5722.9	5894.0	6208.6	6657.0	7169.0	7694.6	8240.3	8736.0	9067.0	9130.7
60°	4329.3	4416.7	4589.1	4923.7	5423.2	6033.8	6735.6	7542.3	8417.7	9162.0	9606.5
62.5°	2777.2	2859.6	3040.7	3331.6	3738.7	4400.4	5153.4	6111.3	7287.6	8462.7	9521.6
65°	1427.2	1472.2	1567.2	1743.3	2060.4	2554.9	3230.5	4185.7	5530.7	6980.4	8511.4
67.5°	904.1	912.8	934.1	959.0	1040.1	1211.3	1526.0	2121.5	3228.0	4740.1	6532.0
70°	781.7	781.7	771.7	768.1	777.9	801.6	850.3	989.0	1362.4	2250.3	3767.4
72.5°	715.5	708.0	690.5	676.9	674.3	674.3	684.2	705.4	765.4	916.6	1474.7
75°	659.4	638.1	614.4	598.1	592.0	585.6	584.3	588.1	600.6	624.3	704.4
77.5°	590.6	563.1	535.7	519.5	511.9	503.2	495.8	487.1	480.8	488.3	523.3
80°	508.3	477.0	455.8	445.7	438.4	425.7	409.5	394.5	380.8	378.4	399.6
82.5°	409.5	373.3	374.7	378.4	364.6	347.1	329.7	313.4	289.8	277.1	289.8
85°	330.9	312.3	303.4	327.2	307.2	281.0	253.5	224.8	187.2	157.4	171.0
87.5°	128.5	128.5	192.2	295.9	266.0	217.3	186.0	158.6	98.6	76.1	77.4
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°	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8	2930.8
2.5°	2935.8	2938.3	2937.0	2935.8	2935.8	2934.6	2935.8	2935.8
5°	2958.2	2964.4	2964.4	2967.0	2967.0	2968.2	2969.4	2968.2
7.5°	2992.0	3003.2	3010.7	3019.5	3020.7	3021.9	3024.5	3021.9
10°	3025.6	3048.2	3064.4	3080.6	3088.2	3090.6	3093.1	3093.1
12.5°	3068.2	3099.3	3128.1	3156.7	3170.5	3178.1	3178.1	3183.1
15°	3138.0	3169.3	3202.9	3241.8	3265.3	3277.9	3281.7	3281.7
17.5°	3236.8	3264.3	3292.8	3330.3	3360.3	3376.5	3380.3	3379.1
20°	3351.5	3377.7	3394.1	3417.7	3444.0	3462.6	3467.6	3467.6
22.5°	3482.6	3497.7	3500.2	3507.7	3528.9	3553.9	3565.2	3567.6
25°	3627.5	3631.3	3621.2	3621.2	3635.0	3658.7	3669.9	3671.3
27.5°	3814.8	3796.1	3771.2	3762.5	3771.2	3798.7	3812.3	3817.3
30°	4048.4	4003.3	3946.0	3914.8	3909.8	3946.0	3971.0	3974.7
32.5°	4315.5	4250.7	4174.6	4110.9	4094.6	4117.0	4147.0	4145.8
35°	4632.7	4555.3	4463.0	4381.8	4344.4	4366.8	4409.2	4414.2
37.5°	4998.7	4897.5	4791.4	4689.0	4630.3	4636.5	4681.4	4696.5
40°	5407.0	5275.8	5142.3	5004.8	4921.3	4904.9	4959.9	4968.6
42.5°	5844.1	5675.4	5506.9	5337.1	5229.7	5204.7	5268.4	5264.6
45°	6309.9	6095.0	5897.7	5710.4	5583.1	5545.5	5598.1	5598.1
47.5°	6810.5	6545.8	6311.0	6098.8	5960.2	5906.4	5956.4	5960.2
50°	7341.3	7060.3	6784.3	6548.4	6382.3	6313.6	6378.4	6388.4
52.5°	7869.4	7596.0	7317.6	7047.8	6846.7	6763.1	6838.0	6870.4
55°	8405.3	8136.7	7870.7	7607.2	7368.7	7270.1	7350.0	7391.3
57.5°	8970.8	8722.4	8468.9	8202.9	7973.0	7819.6	7904.5	7959.4
60°	9634.0	9421.7	9158.1	8864.7	8632.4	8476.3	8525.0	8573.8
62.5°	10158.4	10240.8	10017.3	9677.6	9379.2	9179.4	9226.9	9278.1
65°	9904.9	10750.2	10948.8	10605.4	10192.1	9881.1	9861.1	9887.5
67.5°	8279.0	9921.2	11118.6	11445.8	11099.9	10667.8	10588.0	10626.7
70°	5538.1	7583.5	9696.3	11269.7	11688.0	11520.8	11442.2	11465.7
72.5°	2659.8	4416.7	6578.3	8669.9	9943.6	10528.0	10715.3	10806.5
75°	972.8	1753.2	3170.5	4777.6	5767.8	6676.9	7270.1	7512.3
77.5°	587.0	708.0	1012.7	1524.8	1727.0	1933.1	1853.2	1893.1
80°	434.6	490.7	555.7	624.3	646.8	646.8	621.8	601.9
82.5°	304.6	340.8	372.1	409.5	419.6	400.9	329.7	262.2
85°	196.0	212.3	226.1	249.8	243.5	232.2	156.0	138.6
87.5°	89.9	102.3	107.3	118.7	113.6	108.7	77.4	64.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)