

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: P299245

Luminaire Tested: **GLNA-AF-06-LED-E1-SL2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-SL2-7027-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19892.9 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

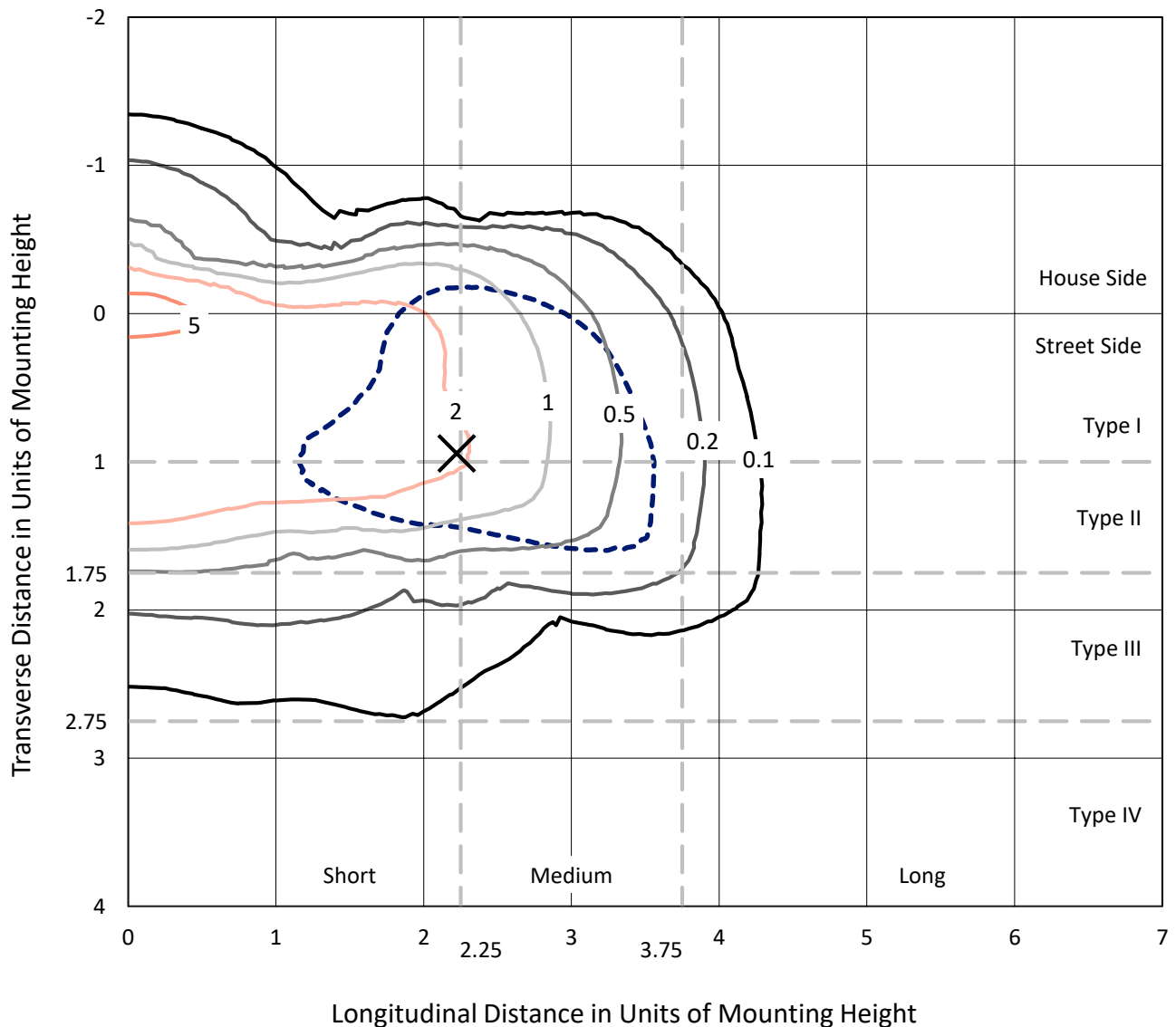
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

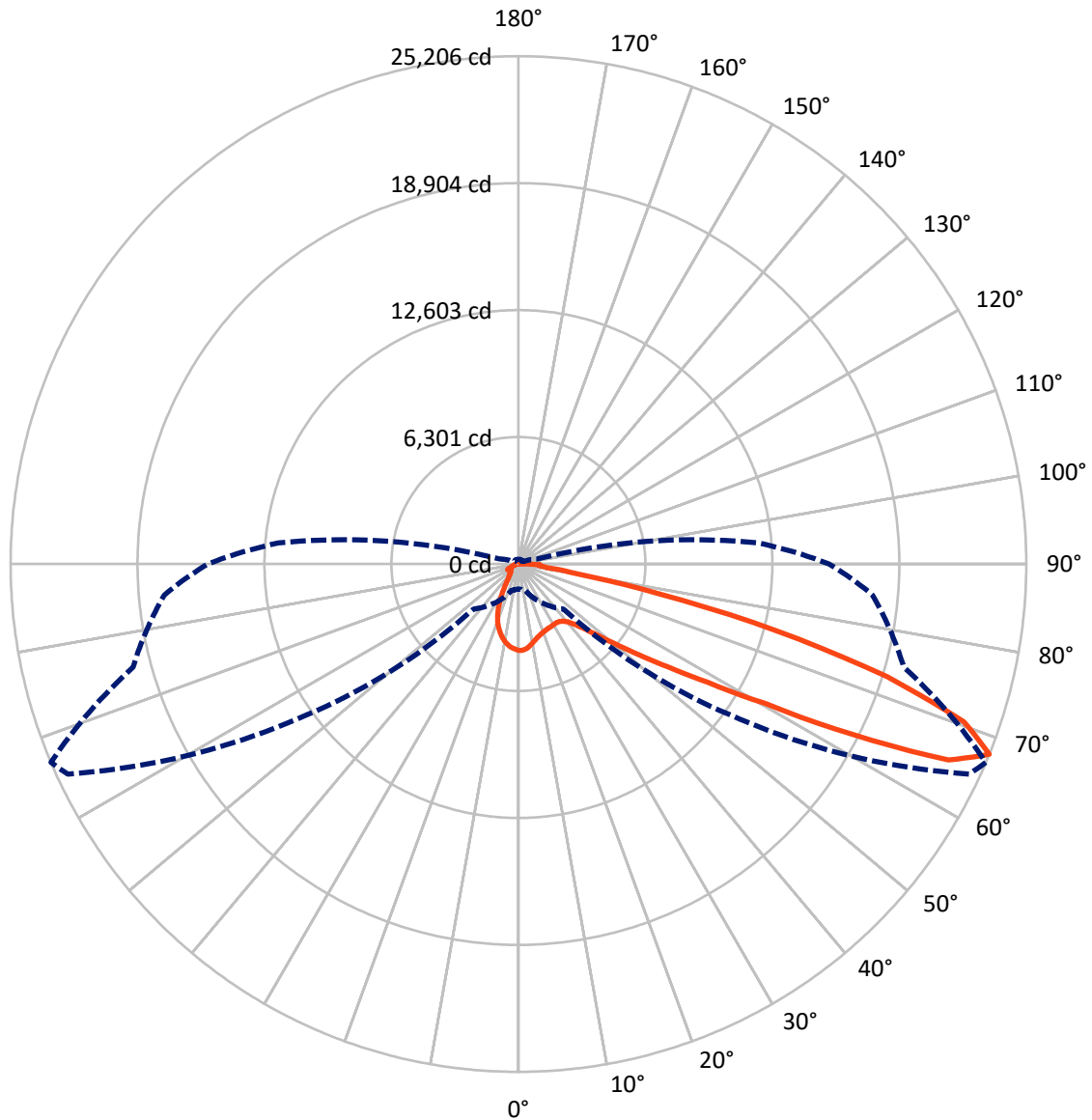
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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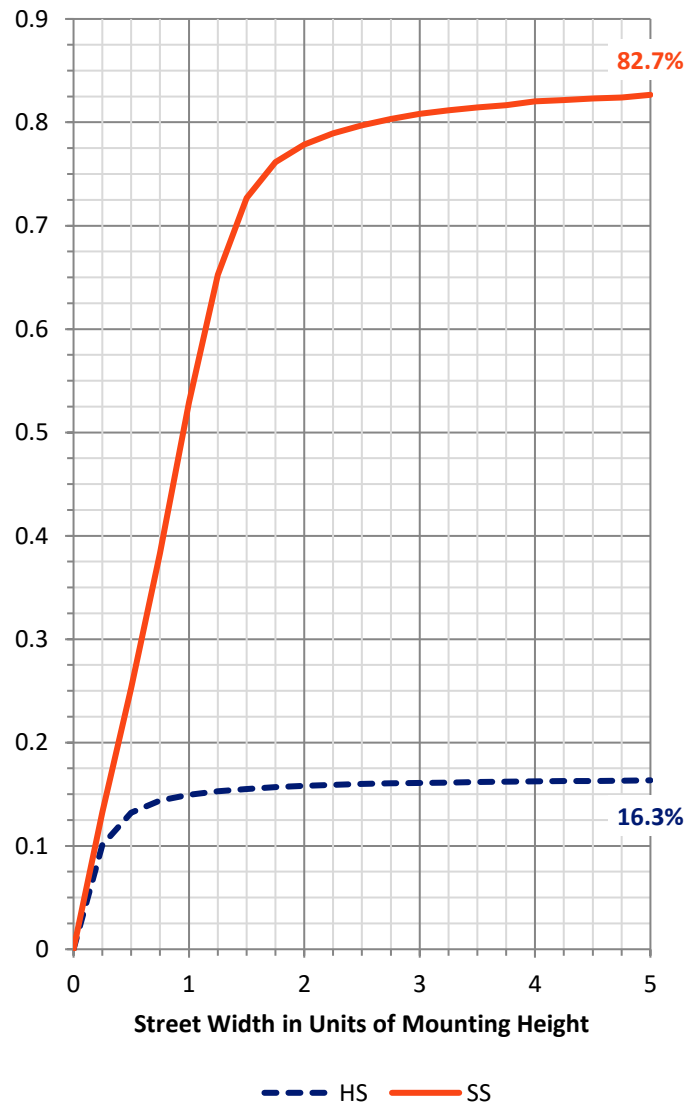
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3296.0	0.0	3296.0
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	16596.9	0.0	16596.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	19892.9	0.0	19892.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.1	1.8
10°-20°	847.0	4.3
20°-30°	1148.2	5.8
30°-40°	1632.3	8.2
40°-50°	2730.8	13.7
50°-60°	4320.1	21.7
60°-70°	5503.4	27.7
70°-80°	2882.7	14.5
80°-90°	462.3	2.3
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°	19892.9	100.0
0°-180°	19892.9	100.0

Coefficient of Utilization



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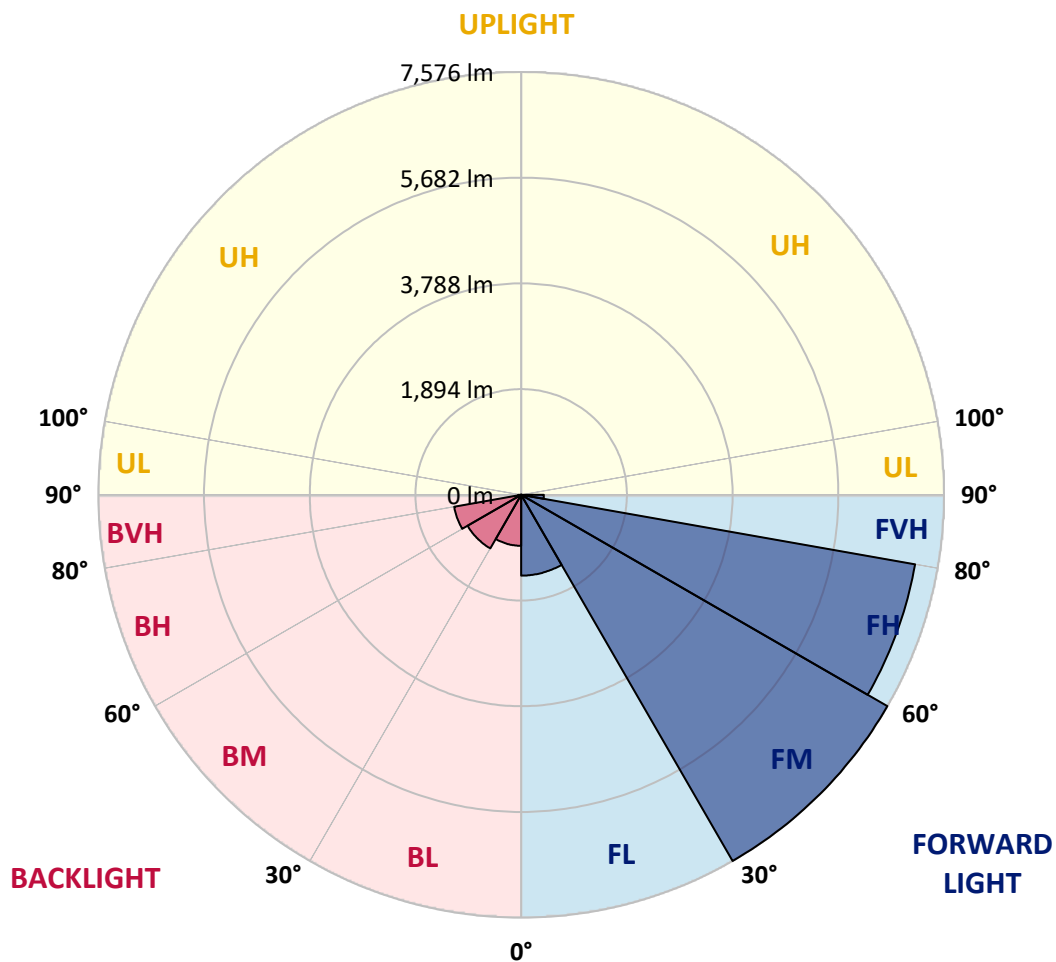
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1447.7	7.3			
FM (30°-60°)	7575.6	38.1			
FH (60°-80°)	7167.0	36.0			G3/7500
FVH (80°-90°)	406.5	2.0			G3/500
BL (0°-30°)	913.6	4.6	B2/1000		
BM (30°-60°)	1107.6	5.6	B2/2500		
BH (60°-80°)	1219.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	55.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4290.9	4290.9	4290.9	4290.9	4290.9	4290.9	4290.9	4290.9	4290.9	4290.9	4290.9
2.5°	4114.3	4121.1	4142.7	4156.5	4218.3	4244.8	4263.4	4282.0	4285.0	4293.8	4285.0
5°	3682.6	3697.4	3737.6	3782.7	3902.4	3996.6	4095.6	4198.6	4217.3	4284.0	4302.6
7.5°	3348.1	3344.2	3377.6	3431.5	3554.1	3684.6	3858.2	4063.3	4103.5	4253.6	4326.2
10°	3103.9	3100.9	3136.2	3192.1	3308.9	3432.5	3628.7	3909.3	3966.1	4205.5	4348.7
12.5°	2923.4	2924.3	2959.7	3021.5	3140.2	3264.7	3463.9	3760.1	3832.7	4149.6	4372.3
15°	2803.7	2811.5	2840.0	2905.7	3021.5	3146.0	3341.3	3648.3	3729.7	4105.5	4398.8
17.5°	2763.5	2776.2	2786.0	2834.1	2933.2	3057.8	3249.0	3565.9	3652.2	4075.0	4422.3
20°	2800.7	2815.4	2796.8	2813.5	2876.3	2986.1	3176.5	3501.2	3589.4	4040.7	4425.3
22.5°	2960.6	2974.4	2919.4	2871.4	2867.4	2934.1	3116.6	3450.1	3541.4	4015.2	4426.2
25°	3242.2	3251.0	3158.8	3047.0	2938.1	2915.5	3074.4	3414.8	3512.0	3992.6	4407.6
27.5°	3587.5	3594.4	3488.4	3323.6	3104.8	2959.7	3059.7	3394.2	3495.3	3973.0	4376.2
30°	4007.4	4039.7	3897.5	3689.5	3370.7	3090.1	3089.1	3383.4	3476.6	3939.7	4314.4
32.5°	4437.0	4450.8	4352.7	4141.7	3728.7	3319.7	3171.5	3391.3	3471.7	3899.4	4235.9
35°	4872.6	4890.2	4826.5	4656.8	4218.3	3656.2	3332.4	3437.4	3502.1	3885.7	4181.0
37.5°	5436.7	5460.2	5371.9	5175.7	4813.7	4112.3	3600.2	3553.2	3595.3	3924.9	4164.3
40°	6328.4	6317.6	6059.6	5767.3	5465.1	4696.0	3982.8	3749.4	3773.9	4051.5	4215.3
42.5°	7366.3	7339.8	6895.4	6436.3	6181.2	5402.3	4489.0	4089.8	4084.8	4300.7	4394.8
45°	8194.2	8172.6	7772.4	7206.4	7002.3	6206.7	5143.3	4596.9	4560.6	4696.0	4726.4
47.5°	8642.5	8643.5	8413.0	7950.9	7946.0	7228.9	5984.0	5330.7	5267.9	5331.7	5299.3
50°	8485.6	8506.2	8481.7	8334.5	8807.3	8569.0	7081.8	6353.9	6227.3	6290.1	6165.5
52.5°	7726.3	7752.8	7898.0	8123.6	9169.3	10188.6	8694.5	7625.2	7478.1	7455.5	7317.2
55°	6380.4	6412.7	6709.0	7322.1	8868.2	11276.5	11239.2	9245.8	9011.4	8798.5	8739.7
57.5°	4397.8	4451.7	4928.5	5838.9	7894.0	11605.1	14269.5	11556.1	11079.3	10335.7	10349.5
60°	2479.0	2541.7	3103.9	3930.8	5928.1	11248.1	16574.8	15055.3	14048.8	12135.8	12237.9
62.5°	1576.5	1644.1	2070.9	2731.1	3557.1	9325.3	17519.5	19920.0	18641.8	14354.9	14454.9
65°	1276.3	1305.7	1506.8	2254.3	2583.0	5618.1	16802.4	23927.4	23450.6	17171.3	16704.3
67.5°	1245.9	1255.7	1359.7	1892.3	2477.0	3157.8	13402.3	24676.8	25205.6	19801.3	17641.2
70°	1231.1	1265.5	1532.3	1806.0	2372.0	2663.4	8053.9	22622.6	23457.5	20489.0	16394.3
72.5°	597.4	595.5	771.1	1633.4	2672.2	2762.5	4137.8	18304.3	19142.1	17751.0	13472.0
75°	481.7	440.5	420.8	598.4	2569.2	2852.7	2636.9	12595.0	13201.2	11901.4	8281.5
77.5°	457.1	408.1	373.8	374.7	1086.0	3025.4	2233.7	6970.9	7147.5	5375.8	2269.0
80°	378.7	333.5	309.0	348.3	525.8	2881.2	2415.2	3154.9	2894.9	1320.4	755.4
82.5°	262.9	239.4	232.5	292.3	420.8	2053.2	2808.6	1695.2	1421.5	661.2	466.0
85°	167.7	143.2	158.9	212.9	327.7	947.6	2892.9	1321.4	1050.6	419.9	262.9
87.5°	77.5	62.8	78.5	117.7	213.9	326.7	2752.7	1484.2	1082.0	221.7	165.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4290.9	4290.9	4290.9	4290.9	4290.9	4290.9	4290.9	4290.9	4290.9	4290.9	4290.9
2.5°	4292.8	4274.2	4259.5	4232.0	4201.6	4172.2	4145.7	4112.3	4102.5	4093.7	4107.4
5°	4306.6	4287.9	4234.0	4149.6	4056.4	3969.1	3881.8	3807.2	3761.1	3735.6	3750.3
7.5°	4327.2	4300.7	4188.8	4033.8	3866.1	3713.1	3555.1	3428.6	3335.4	3291.2	3304.0
10°	4345.8	4294.8	4112.3	3879.8	3634.6	3407.0	3157.8	2951.8	2798.8	2718.3	2737.9
12.5°	4353.6	4272.2	4005.4	3687.5	3351.1	3017.5	2650.6	2342.6	2122.9	2042.4	2025.7
15°	4361.5	4246.7	3887.7	3468.8	3008.7	2536.8	2022.8	1654.0	1471.5	1431.3	1422.4
17.5°	4363.5	4202.6	3754.3	3231.4	2607.5	1964.9	1383.2	1148.7	1149.7	1214.5	1222.3
20°	4342.9	4136.8	3592.4	2936.1	2126.8	1358.7	949.6	909.4	1057.5	1219.4	1239.0
22.5°	4295.8	4049.5	3408.9	2591.8	1576.5	894.7	734.8	778.9	970.2	1168.4	1190.9
25°	4235.9	3943.6	3192.1	2192.5	1043.8	639.6	616.1	670.0	799.5	931.9	944.7
27.5°	4154.5	3818.0	2948.9	1735.4	677.9	526.8	542.5	578.8	631.8	690.6	696.5
30°	4049.5	3667.9	2688.9	1265.5	512.1	473.8	496.4	516.0	538.6	571.9	574.9
32.5°	3928.9	3523.7	2422.1	874.1	454.2	446.4	464.0	473.8	491.5	512.1	514.0
35°	3827.8	3386.4	2145.4	618.0	429.7	425.8	437.5	441.4	458.1	480.7	482.6
37.5°	3770.0	3274.6	1860.0	498.3	413.0	407.1	414.0	414.0	437.5	470.9	475.8
40°	3773.9	3212.7	1574.5	450.3	399.3	391.4	392.4	392.4	422.8	459.1	462.0
42.5°	3880.8	3228.4	1321.4	431.6	388.5	379.6	374.7	377.7	403.2	426.7	428.7
45°	4131.9	3339.3	1084.0	419.9	377.7	374.7	363.9	363.0	372.8	383.6	383.6
47.5°	4544.0	3558.1	923.1	412.0	368.9	367.9	355.1	342.4	341.4	345.3	345.3
50°	5214.0	3934.8	815.2	403.2	363.0	355.1	340.4	320.8	313.9	316.9	316.9
52.5°	6218.5	4606.7	774.0	391.4	350.2	337.5	320.8	301.2	295.3	296.3	296.3
55°	7536.0	5638.7	768.1	377.7	336.5	315.9	302.1	287.4	280.6	282.5	282.5
57.5°	9145.8	7066.1	873.1	356.1	317.8	294.3	286.4	276.6	271.7	274.7	273.7
60°	11102.9	8933.9	1294.9	333.5	299.2	274.7	274.7	266.8	262.9	265.8	264.9
62.5°	13357.2	11079.3	1820.7	316.9	279.6	259.0	262.9	259.0	255.1	257.0	256.0
65°	15356.4	12477.2	1705.0	304.1	260.0	244.3	251.1	249.2	246.2	248.2	247.2
67.5°	15414.3	11959.3	957.4	290.4	241.3	229.6	239.4	238.4	236.4	238.4	237.4
70°	13756.4	10098.3	539.5	264.9	221.7	211.9	225.6	224.6	222.7	226.6	225.6
72.5°	11021.4	7328.0	394.4	233.5	202.1	193.3	209.0	208.0	208.0	213.9	210.9
75°	6342.1	3770.9	314.9	200.1	181.5	174.6	188.4	189.3	191.3	199.1	193.3
77.5°	1808.0	1175.2	257.0	169.7	156.0	153.0	166.8	168.7	169.7	178.5	170.7
80°	672.0	541.5	211.9	142.2	127.5	128.5	141.3	144.2	145.2	154.0	144.2
82.5°	428.7	357.1	171.7	109.9	100.1	99.1	114.8	118.7	118.7	119.7	113.8
85°	250.2	213.9	129.5	79.5	70.6	67.7	85.3	92.2	89.3	87.3	83.4
87.5°	167.7	147.1	79.5	44.1	38.3	36.3	50.0	54.9	53.0	50.0	47.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)