

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: P299894

Luminaire Tested: **GLNA-AF-04-LED-E1-SL3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-04-LED-E1-SL3-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18700.2 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

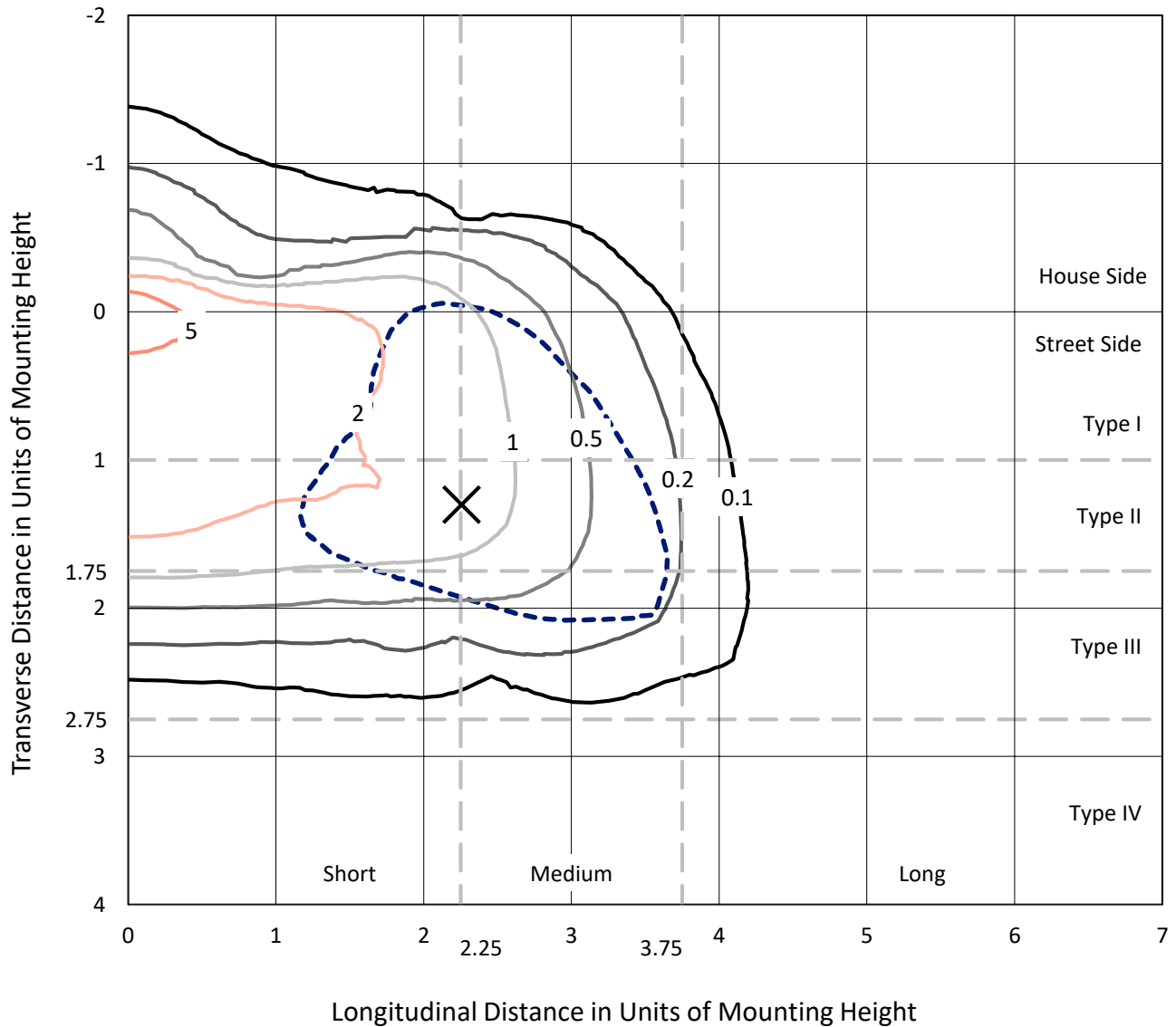
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

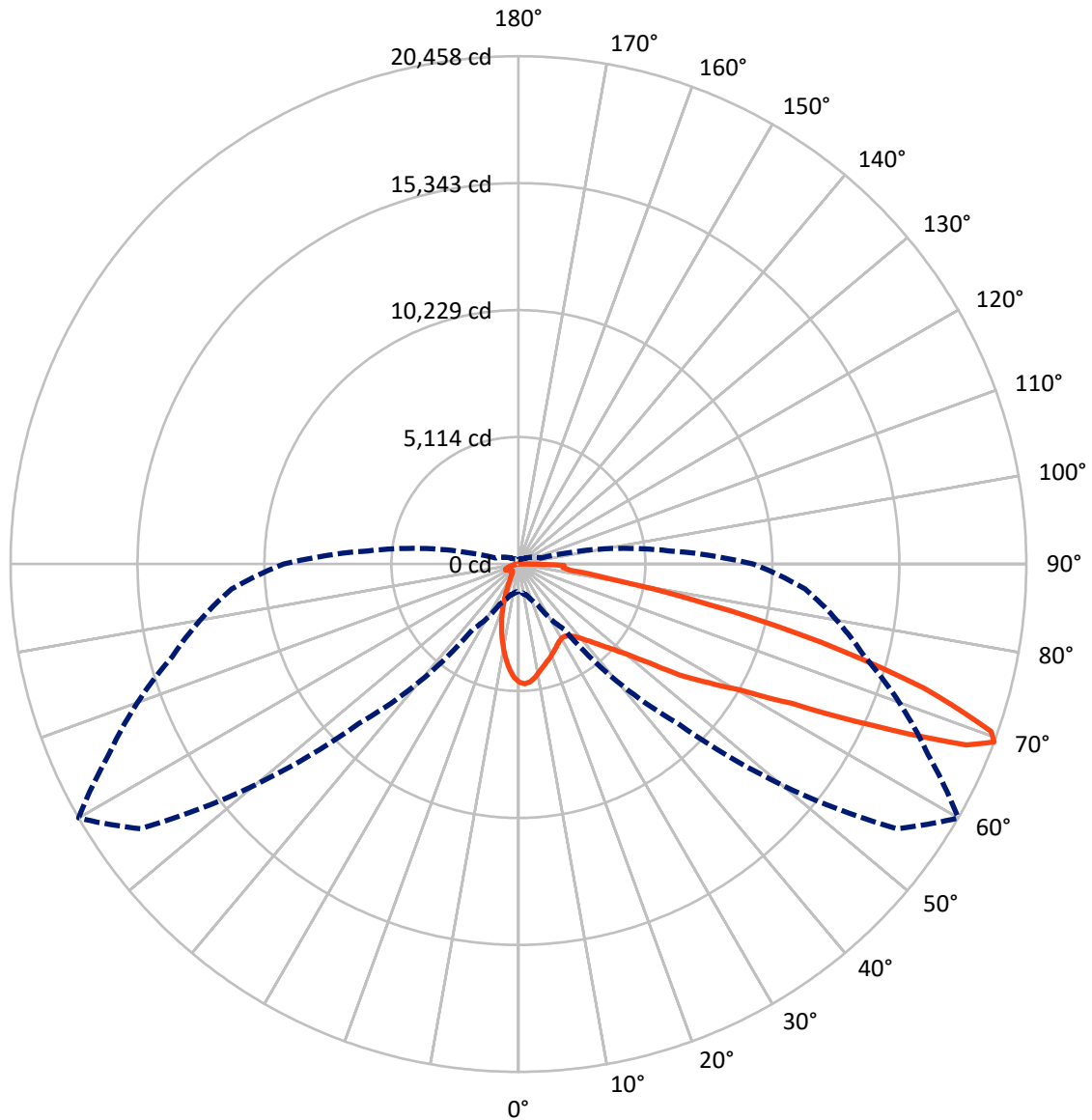
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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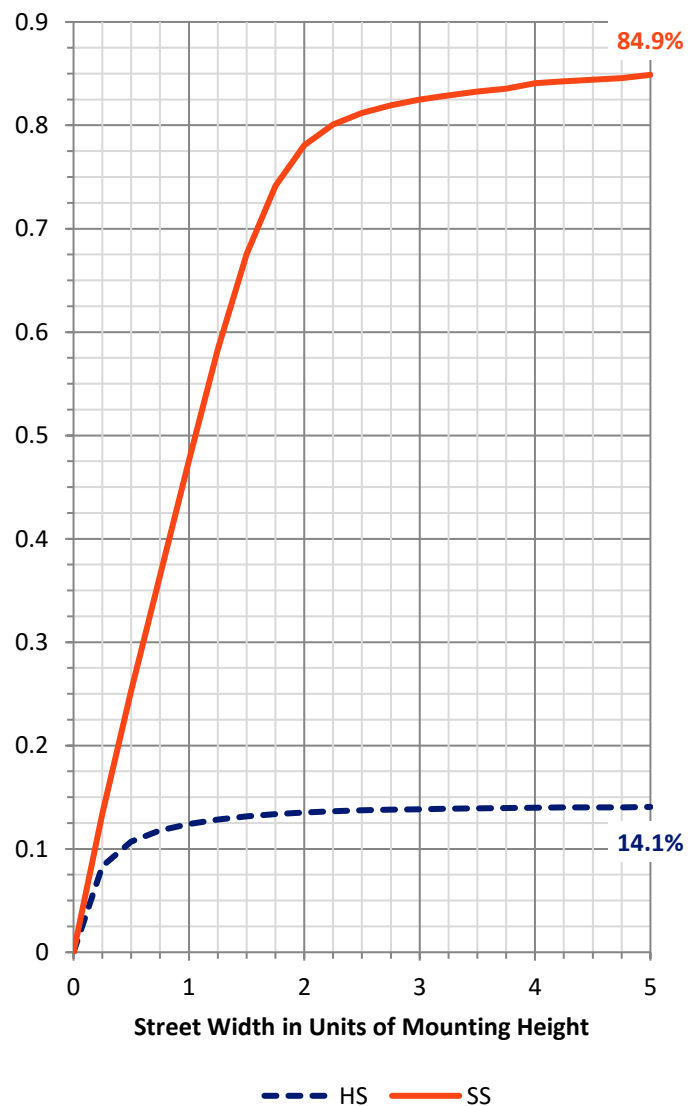
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2660.4	0.0	2660.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	16039.7	0.0	16039.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	18700.2	0.0	18700.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.9	2.2
10°-20°	858.4	4.6
20°-30°	1093.8	5.8
30°-40°	1503.7	8.0
40°-50°	2439.8	13.0
50°-60°	3912.9	20.9
60°-70°	5207.7	27.8
70°-80°	2811.8	15.0
80°-90°	469.2	2.5
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°	18700.2	100.0
0°-180°	18700.2	100.0

Coefficient of Utilization



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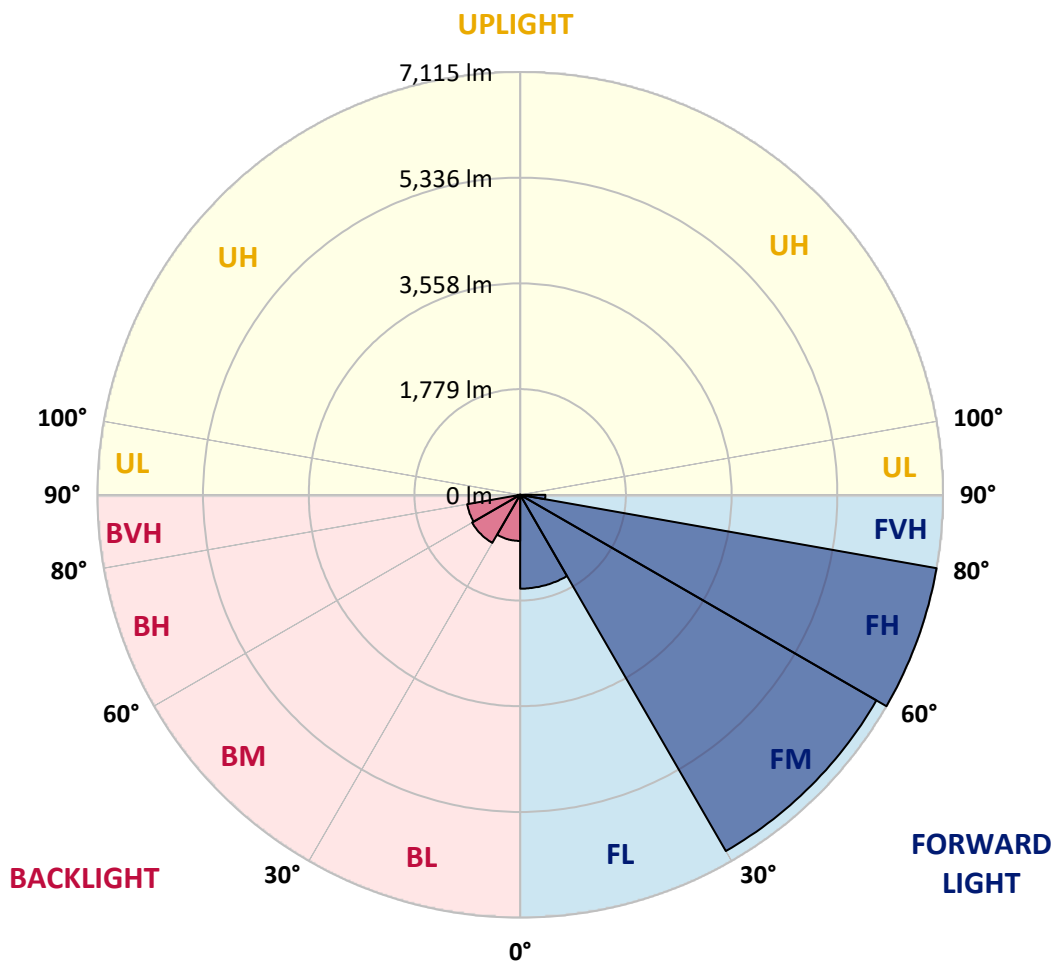
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1579.0	8.4			
FM (30°-60°)	6921.7	37.0			
FH (60°-80°)	7115.1	38.0			G3/7500
FVH (80°-90°)	424.0	2.3			G3/500
BL (0°-30°)	776.1	4.2	B2/1000		
BM (30°-60°)	934.7	5.0	B1/1000		
BH (60°-80°)	904.5	4.8	B2/1000		G2/1000
BVH (80°-90°)	45.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1
2.5°	4862.7	4873.5	4869.0	4866.3	4874.4	4861.7	4835.6	4827.4	4814.8	4785.0	4734.4
5°	4680.2	4712.7	4710.9	4735.3	4775.9	4786.8	4775.0	4776.8	4753.3	4716.3	4632.3
7.5°	4364.9	4378.5	4385.7	4439.0	4513.1	4572.7	4623.3	4639.5	4628.7	4597.1	4488.7
10°	4039.7	4050.6	4067.7	4130.0	4224.0	4306.2	4401.9	4457.1	4480.5	4475.1	4354.1
12.5°	3760.6	3771.4	3794.0	3864.5	3976.5	4077.7	4216.8	4285.4	4341.4	4374.8	4244.8
15°	3510.4	3533.8	3555.5	3636.8	3762.4	3895.2	4052.4	4139.1	4225.8	4300.8	4148.1
17.5°	3315.2	3338.7	3351.4	3425.4	3559.1	3721.7	3906.0	4008.1	4116.5	4239.3	4052.4
20°	3202.3	3213.2	3207.7	3249.3	3369.4	3542.0	3760.6	3878.9	4009.9	4181.5	3956.6
22.5°	3170.7	3171.6	3151.7	3147.2	3224.9	3370.3	3605.2	3748.8	3909.6	4143.6	3874.4
25°	3247.5	3244.8	3190.6	3146.3	3154.4	3239.4	3455.3	3622.4	3825.6	4135.5	3811.2
27.5°	3418.2	3426.3	3346.0	3262.8	3180.6	3177.9	3341.4	3517.6	3757.0	4172.5	3784.1
30°	3657.6	3671.2	3585.3	3479.6	3325.2	3197.8	3297.2	3455.3	3714.5	4249.3	3779.6
32.5°	3919.6	3934.0	3869.0	3757.9	3555.5	3320.7	3327.9	3460.7	3712.7	4356.8	3810.3
35°	4198.7	4215.0	4181.5	4087.6	3862.7	3547.4	3445.3	3548.3	3771.4	4521.2	3892.5
37.5°	4510.3	4535.6	4544.7	4455.2	4215.0	3846.4	3637.7	3714.5	3904.2	4749.7	4043.3
40°	4959.3	4994.5	4991.8	4863.6	4618.7	4250.2	3934.9	3954.8	4111.1	5055.1	4284.5
42.5°	5819.3	5826.5	5601.6	5322.4	5063.2	4674.8	4285.4	4269.2	4396.5	5441.7	4639.5
45°	6913.2	6883.4	6383.0	5843.7	5527.5	5162.6	4741.6	4662.1	4758.8	5913.2	5084.0
47.5°	7821.1	7752.4	7120.1	6375.7	6018.9	5692.8	5277.3	5138.2	5191.5	6448.0	5658.5
50°	8136.3	8084.8	7560.9	6818.4	6484.1	6339.6	5936.7	5739.8	5754.2	7085.8	6331.5
52.5°	8068.6	8061.4	7711.8	7110.1	6919.5	7018.9	6870.8	6604.3	6463.4	7794.0	7057.8
55°	7908.7	7924.1	7797.6	7449.8	7417.3	7674.7	8091.2	7894.2	7456.1	8508.5	7808.4
57.5°	7353.1	7392.9	7671.1	7877.1	8218.5	8601.6	9074.0	9018.0	8524.8	9280.9	8700.9
60°	5924.1	6016.2	6762.4	7794.0	9043.3	10241.1	10452.5	10322.4	9626.8	10239.3	9879.8
62.5°	4150.8	4246.6	5133.7	6747.9	8907.8	12092.9	12916.8	12355.8	11209.5	11651.2	11405.5
65°	2222.2	2268.3	2945.8	4682.0	7520.3	12475.1	16518.4	15664.7	13715.3	13391.9	12710.8
67.5°	1225.8	1251.1	1510.4	2364.0	4816.6	10985.5	18812.8	19457.8	16847.2	14550.9	12473.2
69°	1108.4	1131.9	1301.7	1790.4	3223.1	9083.0	18588.8	20457.8	18220.3	14436.2	11595.2
70°	1084.0	1105.7	1258.3	1650.4	2608.8	7486.8	17838.1	20202.2	18547.3	14025.2	10829.2
72.5°	975.6	999.1	1147.2	1482.4	2229.4	3732.6	14130.0	17081.2	16839.1	12160.7	8214.0
75°	909.7	931.3	1182.5	1451.7	2134.6	2362.2	9315.2	12588.9	12378.4	8506.7	4429.0
77.5°	389.3	387.5	548.3	1228.5	2166.2	2287.2	5005.4	7864.4	7175.2	3635.9	1271.9
80°	260.2	255.6	260.2	361.3	1986.4	2299.9	2622.4	3991.8	3015.3	926.8	626.9
82.5°	224.0	220.4	228.5	220.4	698.3	2625.1	2229.4	2122.8	1433.6	526.6	310.7
85°	150.9	144.5	196.9	197.8	329.7	2332.4	2511.3	1793.1	1159.9	312.6	153.6
87.5°	72.3	70.5	114.7	140.0	193.3	947.6	2817.5	1837.4	1169.8	159.9	73.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1	4765.1
2.5°	4719.0	4682.0	4645.9	4602.5	4557.3	4506.7	4481.4	4456.1	4449.8	4442.6	4417.3
5°	4588.9	4536.5	4446.2	4346.8	4242.1	4140.0	4062.3	4013.5	3976.5	3957.5	3924.1
7.5°	4420.9	4344.1	4186.1	4014.4	3838.3	3677.5	3538.4	3450.7	3367.6	3328.8	3284.5
10°	4261.0	4146.3	3900.6	3647.7	3394.7	3151.7	2923.2	2761.5	2617.9	2537.5	2480.6
12.5°	4123.7	3966.5	3626.0	3283.6	2936.7	2590.8	2248.4	1979.2	1754.3	1635.9	1575.4
15°	3990.0	3800.3	3364.9	2930.4	2485.1	2014.4	1564.6	1259.2	1073.2	999.1	973.8
17.5°	3869.0	3626.0	3103.0	2574.5	2019.0	1449.9	1051.5	883.5	812.1	787.7	779.6
20°	3738.0	3449.8	2831.1	2202.3	1533.0	1013.5	821.1	747.1	718.2	710.9	707.3
22.5°	3611.5	3276.4	2570.9	1804.0	1101.2	782.3	705.5	674.8	670.3	676.6	676.6
25°	3504.0	3121.0	2290.0	1387.5	808.5	658.5	631.4	624.2	641.4	664.9	669.4
27.5°	3423.6	2993.7	1990.9	1024.4	644.1	572.7	571.8	583.6	626.0	671.2	680.2
30°	3368.5	2872.6	1671.2	738.9	540.2	504.1	518.5	543.8	606.1	670.3	687.4
32.5°	3340.5	2783.2	1337.8	571.8	462.5	442.6	467.0	497.7	559.2	618.8	641.4
35°	3362.2	2717.2	1023.5	477.0	408.3	393.0	418.2	448.1	484.2	509.5	526.6
37.5°	3443.5	2691.0	772.4	427.3	371.3	356.8	376.7	393.9	408.3	415.5	423.7
40°	3618.8	2719.0	618.8	402.0	350.5	332.4	340.6	346.9	355.9	363.1	366.8
42.5°	3877.1	2803.0	554.6	392.0	339.7	313.5	311.7	314.4	326.1	339.7	342.4
45°	4238.4	2951.2	550.1	398.4	334.2	298.1	290.0	293.6	311.7	332.4	336.0
47.5°	4700.1	3177.0	586.3	417.3	338.8	290.0	276.4	280.9	303.5	331.5	336.0
50°	5259.2	3492.3	646.8	445.3	358.6	291.8	271.9	274.6	298.1	328.8	333.3
52.5°	5919.6	3939.4	712.7	472.4	379.4	303.5	275.5	269.2	290.9	318.0	323.4
55°	6654.0	4513.1	780.5	496.8	390.2	318.0	282.7	262.0	277.3	299.9	304.4
57.5°	7555.5	5315.2	897.9	520.3	397.5	327.9	290.0	254.7	260.2	276.4	280.0
60°	8775.9	6449.8	1104.8	559.2	413.7	331.5	289.1	248.4	243.0	252.0	253.8
62.5°	10238.4	7682.0	1277.3	607.9	440.8	334.2	283.6	243.9	228.5	228.5	230.4
65°	11106.5	8011.7	1181.6	648.6	463.4	331.5	277.3	239.4	217.7	207.8	208.7
67.5°	10370.3	7046.0	1012.6	656.7	462.5	318.9	267.4	231.3	206.9	191.5	190.6
69°	9448.0	6079.4	936.8	635.0	440.8	302.6	254.7	222.2	198.7	182.5	181.6
70°	8704.5	5489.6	887.1	611.6	417.3	290.9	244.8	214.1	192.4	177.1	175.2
72.5°	6328.8	3597.1	757.9	525.7	344.2	243.9	211.4	187.9	171.6	162.6	160.8
75°	3162.6	1715.4	615.2	426.4	263.8	195.1	173.4	157.2	149.1	147.2	146.3
77.5°	1038.8	785.9	439.9	318.0	196.0	152.7	140.0	128.3	126.5	131.9	130.1
80°	570.9	457.1	279.1	210.5	133.7	112.0	110.2	103.9	106.6	115.6	113.8
82.5°	290.9	237.6	172.5	126.5	90.3	80.4	87.6	84.0	87.6	95.8	94.9
85°	143.6	130.1	109.3	76.8	59.6	51.5	62.3	65.0	66.8	73.2	73.2
87.5°	83.1	76.8	57.8	36.1	29.8	27.1	36.1	35.2	41.6	45.2	44.3
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)