

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: P300853

Luminaire Tested: **GLNA-AF-03-LED-E1-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-03-LED-E1-SL4-7030
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16644.2 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

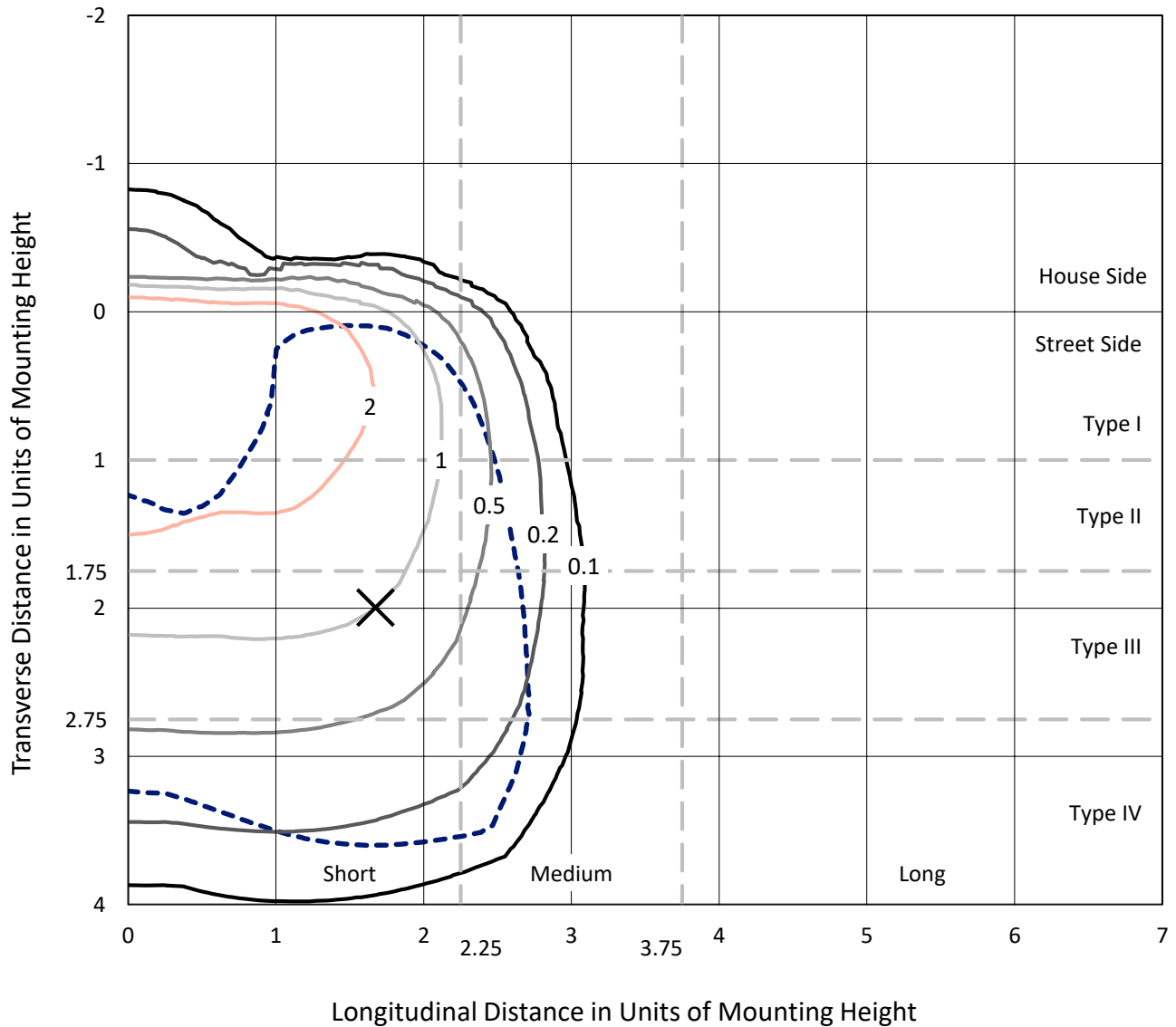
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

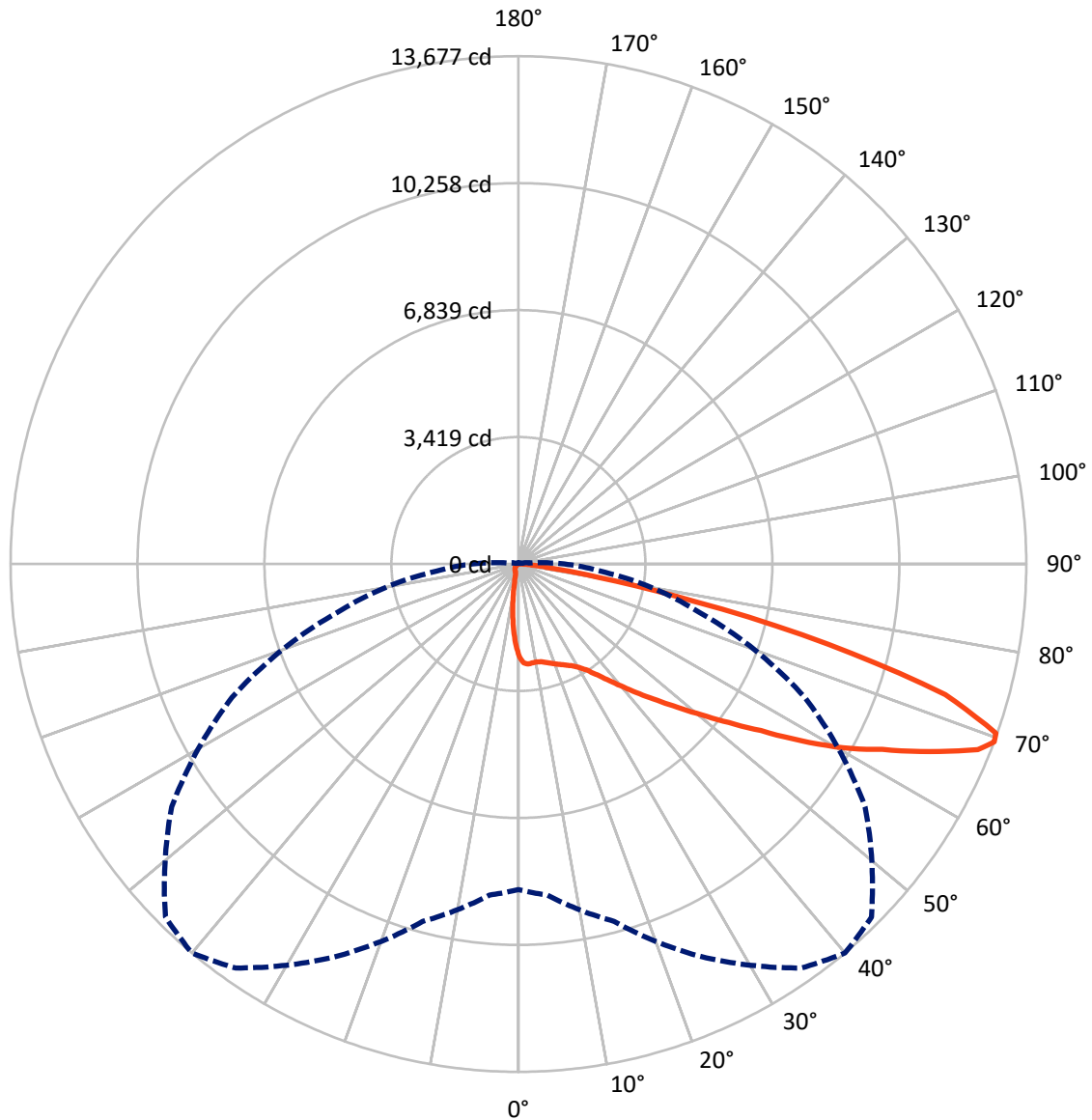
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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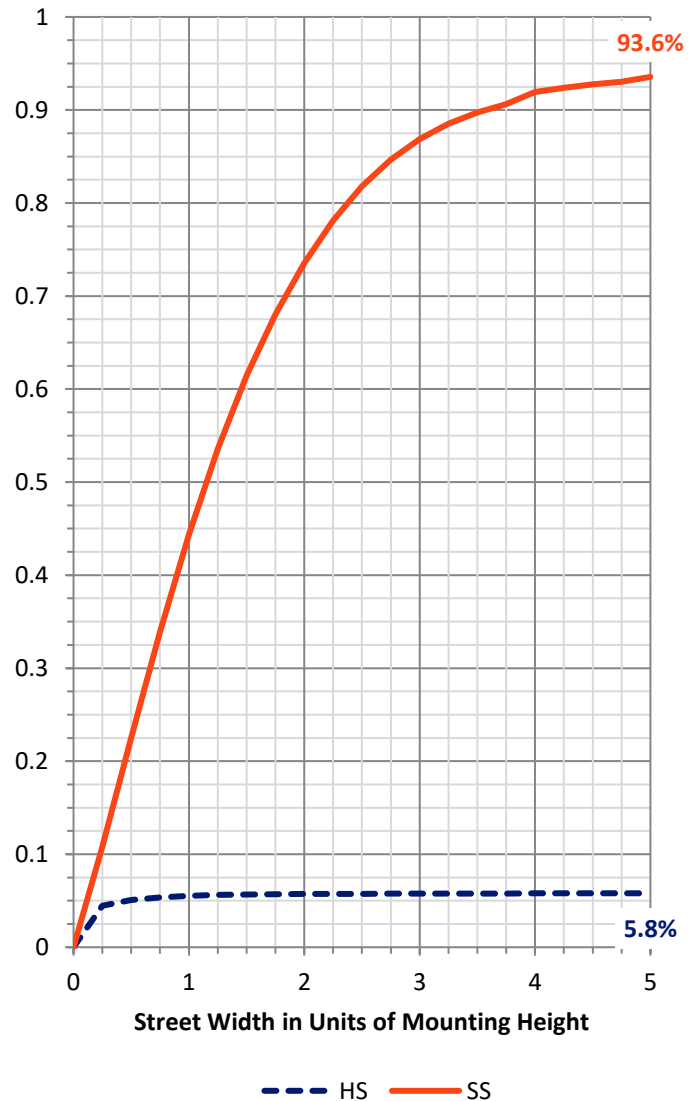
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	973.8	0.0	973.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	15670.4	0.0	15670.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	16644.2	0.0	16644.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.6	1.2
10°-20°	495.8	3.0
20°-30°	835.2	5.0
30°-40°	1367.2	8.2
40°-50°	2367.2	14.2
50°-60°	3728.6	22.4
60°-70°	4869.4	29.3
70°-80°	2507.9	15.1
80°-90°	271.3	1.6
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°	16644.2	100.0
0°-180°	16644.2	100.0



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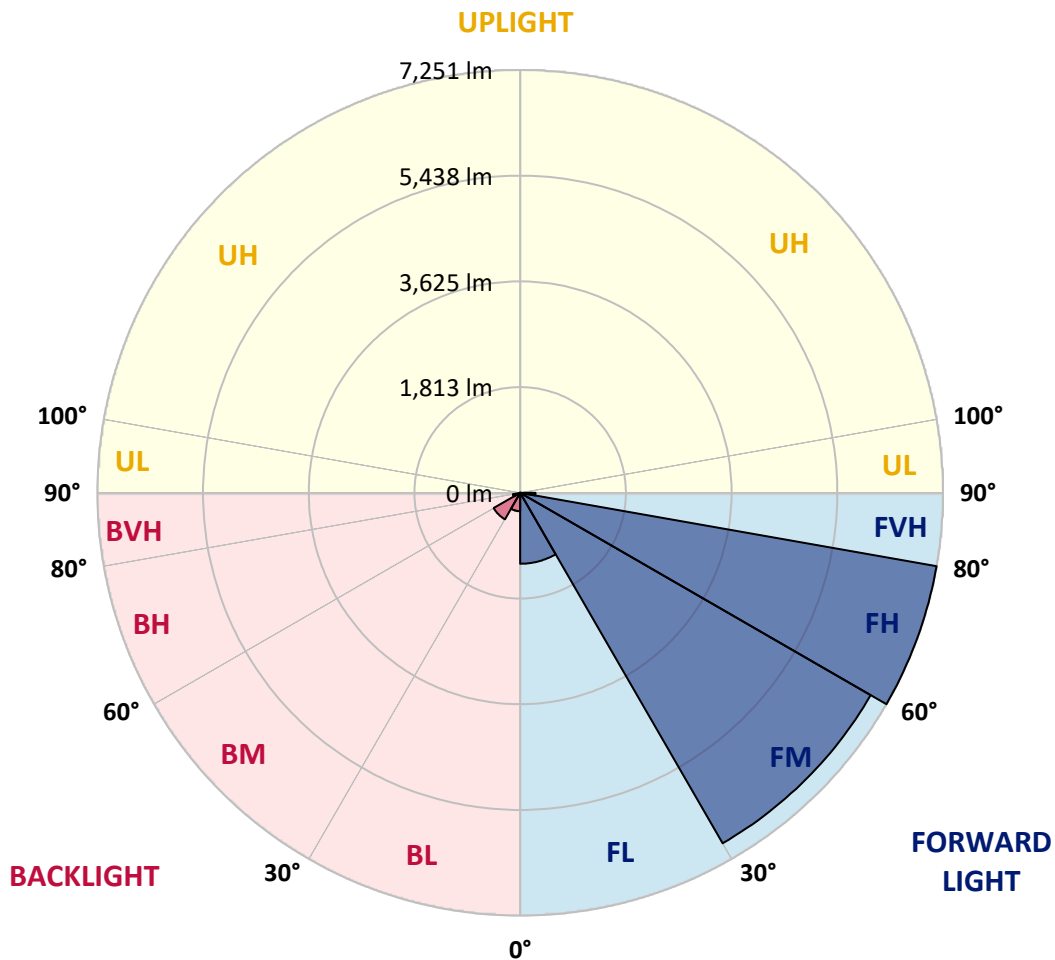
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1217.2	7.3			
FM	(30°-60°)	6939.6	41.7			
FH	(60°-80°)	7250.9	43.6			G3/7500
FVH	(80°-90°)	262.8	1.6			G3/500
BL	(0°-30°)	315.4	1.9	B1/500		
BM	(30°-60°)	523.4	3.1	B1/1000		
BH	(60°-80°)	126.4	0.8	B1/500		G1/500
BVH	(80°-90°)	8.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2486.7	2486.7	2486.7	2486.7	2486.7	2486.7	2486.7	2486.7	2486.7	2486.7	2486.7
2.5°	2730.4	2715.6	2706.7	2694.8	2679.9	2667.0	2662.1	2625.4	2590.7	2543.2	2488.7
5°	2781.0	2776.0	2760.2	2744.3	2726.5	2706.7	2695.8	2652.2	2602.6	2533.3	2438.2
7.5°	2785.9	2780.0	2760.2	2738.4	2713.6	2689.8	2671.0	2627.4	2581.8	2511.5	2395.6
10°	2778.0	2771.1	2756.2	2732.4	2701.7	2678.9	2660.1	2618.5	2579.8	2516.4	2387.6
12.5°	2769.1	2762.1	2755.2	2743.3	2716.6	2700.7	2684.9	2645.2	2610.6	2557.1	2416.4
15°	2778.0	2774.0	2782.0	2777.0	2762.1	2748.3	2732.4	2696.8	2665.1	2620.5	2468.9
17.5°	2815.6	2815.6	2840.4	2843.4	2829.5	2809.7	2786.9	2751.2	2724.5	2686.8	2531.3
20°	2903.8	2900.8	2932.5	2938.5	2904.8	2874.1	2840.4	2796.8	2776.0	2752.2	2592.7
22.5°	3055.4	3041.5	3060.4	3054.4	2988.0	2940.5	2898.9	2845.4	2834.5	2823.6	2661.1
25°	3252.6	3244.6	3257.5	3199.1	3082.1	3017.8	2968.2	2907.8	2907.8	2918.7	2738.4
27.5°	3538.9	3509.2	3465.6	3362.5	3187.2	3104.9	3051.4	2987.0	3003.9	3044.5	2840.4
30°	3832.1	3799.4	3699.4	3540.9	3315.0	3228.8	3166.4	3099.0	3138.6	3212.9	2977.1
32.5°	4121.4	4084.8	3943.1	3743.0	3498.3	3412.1	3351.6	3277.3	3343.7	3468.5	3177.3
35°	4401.8	4369.1	4205.6	3969.8	3742.0	3670.6	3615.2	3550.8	3636.0	3810.3	3459.6
37.5°	4716.8	4681.2	4482.0	4226.4	4038.2	3986.7	3946.1	3881.7	4030.3	4285.9	3852.9
40°	5104.2	5043.8	4775.3	4520.7	4381.0	4356.2	4328.5	4319.6	4550.4	4904.1	4377.0
42.5°	5548.1	5449.0	5082.4	4830.8	4757.5	4775.3	4768.4	4808.0	5201.3	5672.9	5015.1
45°	5991.9	5864.1	5424.2	5161.7	5171.6	5234.0	5272.6	5431.2	6016.7	6554.6	5701.6
47.5°	6368.4	6242.6	5752.2	5519.3	5638.2	5761.1	5866.1	6166.3	6854.8	7422.5	6235.6
50°	6690.4	6571.5	6099.9	5912.7	6180.1	6378.3	6548.7	6993.5	7756.4	8083.3	6610.1
52.5°	6953.9	6874.6	6460.5	6363.4	6799.4	7089.6	7339.3	7872.3	8554.9	8620.3	6901.4
55°	7210.5	7154.0	6847.9	6899.4	7526.5	7921.8	8237.9	8804.6	9242.5	9068.1	7180.8
57.5°	7505.7	7454.2	7289.8	7579.1	8482.6	8979.9	9324.7	9630.8	9847.8	9525.8	7444.3
60°	7806.9	7777.2	7781.2	8334.0	9580.3	10057.8	10248.1	10327.3	10442.2	9956.8	7459.2
62.5°	8094.2	8150.7	8342.9	9174.1	10631.5	10998.0	11094.1	11172.4	11037.7	10025.2	6891.5
65°	8580.7	8672.8	9131.5	10298.6	11787.7	12180.0	12279.1	12010.6	11131.8	9141.4	5605.5
67.5°	8818.4	8986.9	9805.2	11346.8	12909.2	13345.1	13308.4	12065.1	9989.5	6970.7	3597.3
69°	8768.9	8948.2	9960.8	11667.8	13281.7	13677.0	13444.1	11398.3	8510.3	5049.7	2208.3
70°	8572.7	8754.1	9880.5	11655.9	13329.2	13642.3	13192.5	10575.0	7195.6	3692.4	1381.1
72.5°	7159.0	7315.5	8771.9	10535.4	12279.1	12024.4	11036.7	7326.4	3506.2	1005.6	311.1
75°	4406.7	4493.9	6294.1	7936.7	9274.2	8620.3	7353.2	3644.9	1045.2	284.3	172.4
77.5°	2328.2	2367.8	3445.7	4678.2	5879.0	4864.5	3768.7	1421.7	481.5	178.3	124.8
80°	1376.1	1405.8	1855.6	2139.0	2544.2	2125.1	1506.9	872.8	344.8	112.0	111.0
82.5°	787.6	806.5	1345.4	1188.9	1002.6	856.0	750.0	827.3	207.1	75.3	114.9
85°	289.3	293.3	756.9	904.5	596.4	354.7	372.5	685.6	55.5	47.6	90.2
87.5°	134.7	131.8	389.4	553.8	348.7	224.9	290.3	150.6	21.8	30.7	24.8
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°	2486.7	2486.7	2486.7	2486.7	2486.7	2486.7	2486.7	2486.7	2486.7	2486.7	2486.7
2.5°	2457.0	2420.3	2354.0	2285.6	2216.3	2162.8	2110.2	2068.6	2054.8	2029.0	2031.0
5°	2381.7	2314.3	2175.6	2035.0	1888.3	1767.5	1653.5	1561.4	1516.8	1471.2	1471.2
7.5°	2316.3	2218.2	2001.3	1772.4	1535.6	1336.5	1157.2	1022.4	948.1	888.7	887.7
10°	2291.5	2158.8	1855.6	1527.7	1197.8	926.3	713.3	576.6	506.3	460.7	458.7
12.5°	2302.4	2138.0	1743.7	1301.8	887.7	595.4	413.1	325.0	295.2	281.4	281.4
15°	2334.1	2132.0	1631.7	1080.9	627.1	372.5	274.4	250.7	248.7	248.7	248.7
17.5°	2372.8	2134.0	1516.8	865.9	427.0	266.5	236.8	233.8	235.8	235.8	235.8
20°	2412.4	2135.0	1393.0	666.8	301.2	231.8	222.9	221.9	223.9	223.9	224.9
22.5°	2461.0	2140.0	1269.1	498.3	248.7	219.0	212.0	212.0	213.0	213.0	212.0
25°	2516.4	2149.9	1140.3	369.5	226.9	210.0	204.1	203.1	204.1	203.1	202.1
27.5°	2585.8	2163.7	996.7	289.3	217.0	201.1	196.2	196.2	195.2	194.2	193.2
30°	2673.0	2179.6	835.2	245.7	207.1	193.2	188.2	187.2	186.3	184.3	184.3
32.5°	2805.7	2214.3	675.7	222.9	196.2	182.3	178.3	178.3	176.3	174.4	173.4
35°	3009.8	2282.6	533.0	209.0	184.3	170.4	165.5	165.5	163.5	162.5	161.5
37.5°	3292.2	2386.7	414.1	196.2	172.4	157.5	152.6	151.6	149.6	147.6	146.6
40°	3667.7	2515.5	325.9	184.3	160.5	144.6	140.7	138.7	134.7	131.8	131.8
42.5°	4139.3	2662.1	264.5	171.4	146.6	132.8	129.8	126.8	119.9	116.9	115.9
45°	4632.6	2793.8	223.9	156.5	132.8	120.9	118.9	113.9	105.0	102.0	102.0
47.5°	4988.3	2824.6	197.2	142.7	119.9	108.0	107.0	98.1	90.2	88.2	87.2
50°	5210.2	2764.1	175.4	128.8	108.0	96.1	93.1	82.2	77.3	75.3	74.3
52.5°	5359.8	2656.1	157.5	116.9	97.1	85.2	78.3	70.3	66.4	64.4	64.4
55°	5479.7	2503.6	139.7	106.0	88.2	76.3	66.4	60.4	56.5	54.5	54.5
57.5°	5513.4	2296.5	121.9	97.1	79.3	67.4	56.5	52.5	47.6	46.6	46.6
60°	5268.7	1923.0	108.0	86.2	71.3	58.5	49.5	44.6	39.6	38.6	37.6
62.5°	4623.7	1488.1	95.1	76.3	62.4	50.5	42.6	36.7	32.7	32.7	32.7
65°	3527.0	997.7	83.2	66.4	54.5	42.6	36.7	29.7	27.7	27.7	28.7
67.5°	2111.2	542.9	71.3	56.5	46.6	35.7	30.7	25.8	24.8	25.8	25.8
69°	1237.4	319.0	64.4	50.5	40.6	31.7	26.7	22.8	24.8	25.8	25.8
70°	763.8	215.0	59.4	45.6	36.7	28.7	24.8	21.8	23.8	24.8	24.8
72.5°	213.0	111.0	47.6	35.7	29.7	23.8	19.8	19.8	22.8	23.8	23.8
75°	138.7	82.2	36.7	26.7	22.8	18.8	16.8	18.8	21.8	22.8	22.8
77.5°	114.9	67.4	29.7	21.8	18.8	17.8	15.9	16.8	19.8	20.8	20.8
80°	105.0	47.6	23.8	19.8	16.8	15.9	14.9	13.9	17.8	18.8	18.8
82.5°	100.1	37.6	20.8	17.8	15.9	13.9	12.9	13.9	15.9	16.8	17.8
85°	62.4	24.8	18.8	16.8	13.9	12.9	12.9	12.9	14.9	15.9	15.9
87.5°	22.8	19.8	16.8	13.9	11.9	11.9	11.9	11.9	12.9	14.9	14.9
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)