

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: P193752

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193752
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: GLEON-AF-04-LED-E1-SL4-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15902 lumens
Efficiency: N/A
Efficacy: 70.7 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): 225
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

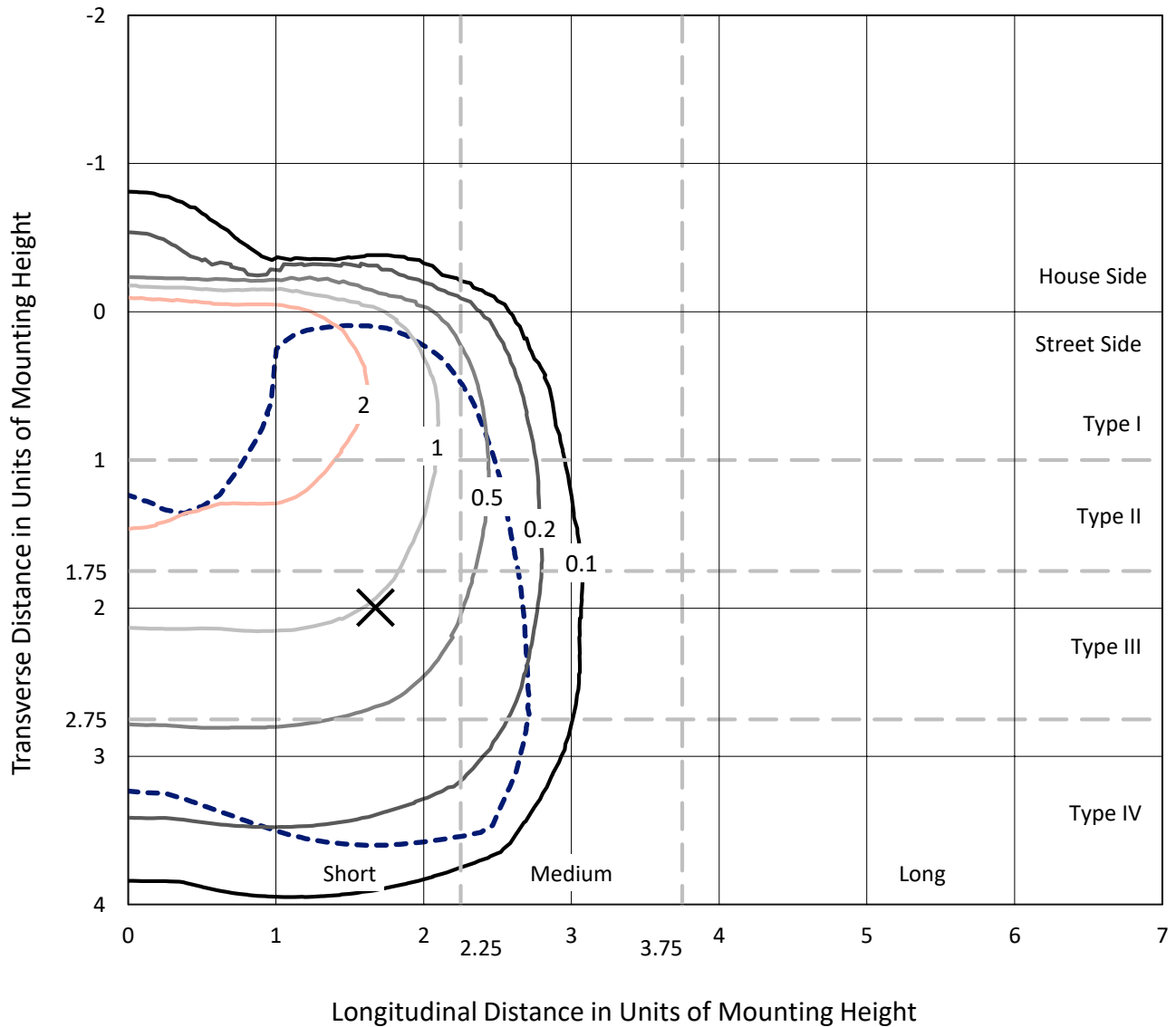


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

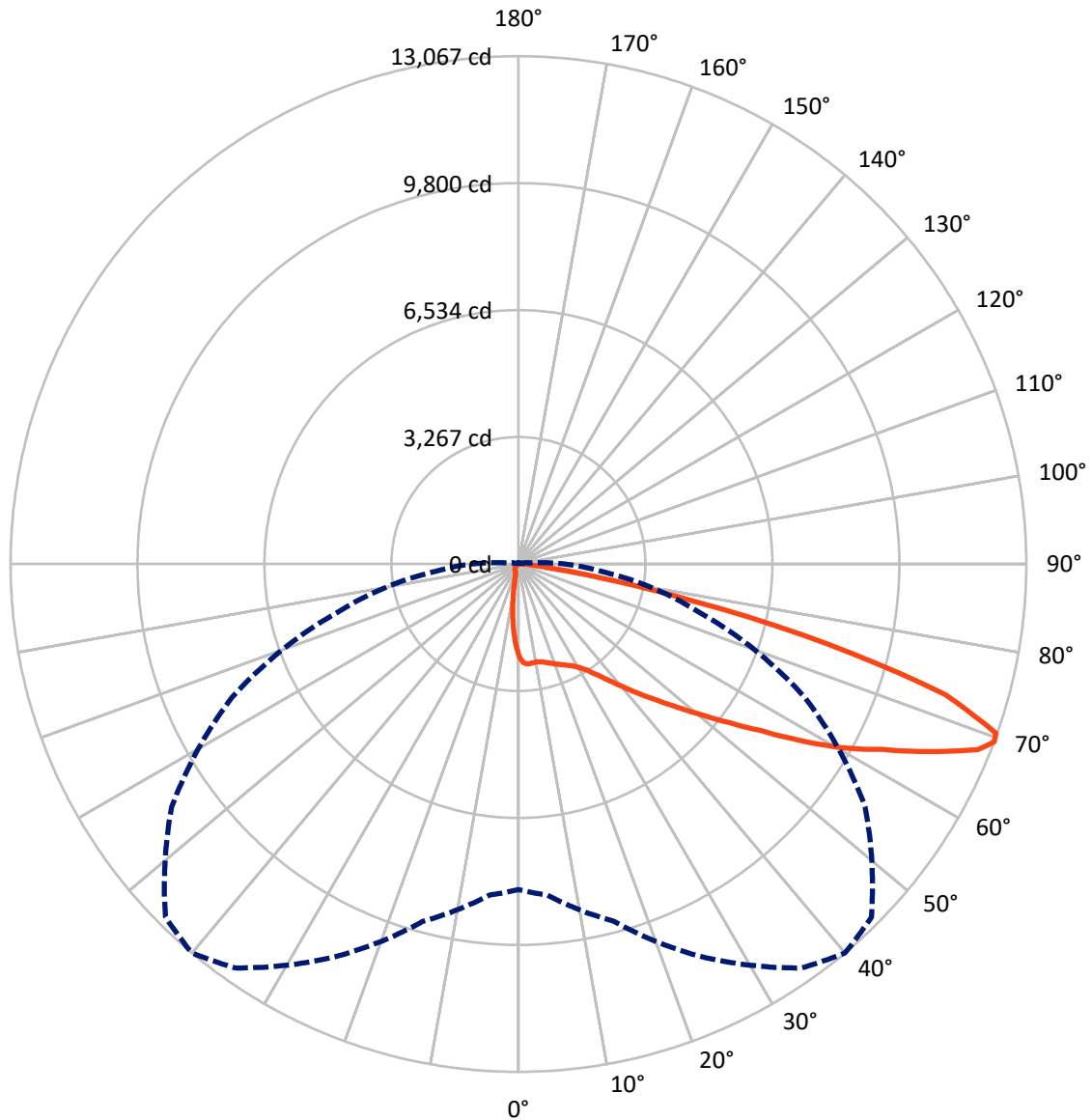


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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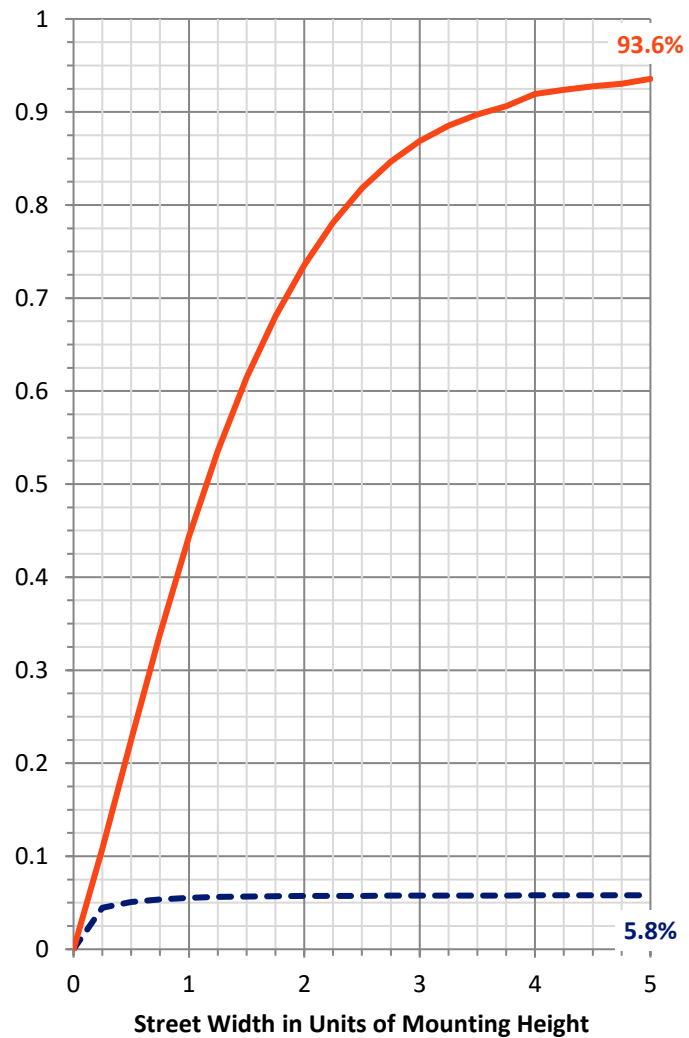
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	930.4	0.0	930.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	14971.6	0.0	14971.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	15902.0	0.0	15902.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.6	1.2
10°-20°	473.7	3.0
20°-30°	797.9	5.0
30°-40°	1306.2	8.2
40°-50°	2261.7	14.2
50°-60°	3562.3	22.4
60°-70°	4652.3	29.3
70°-80°	2396.1	15.1
80°-90°	259.2	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°	15902.0	100.0
0°-180°	15902.0	100.0



--- HS — SS

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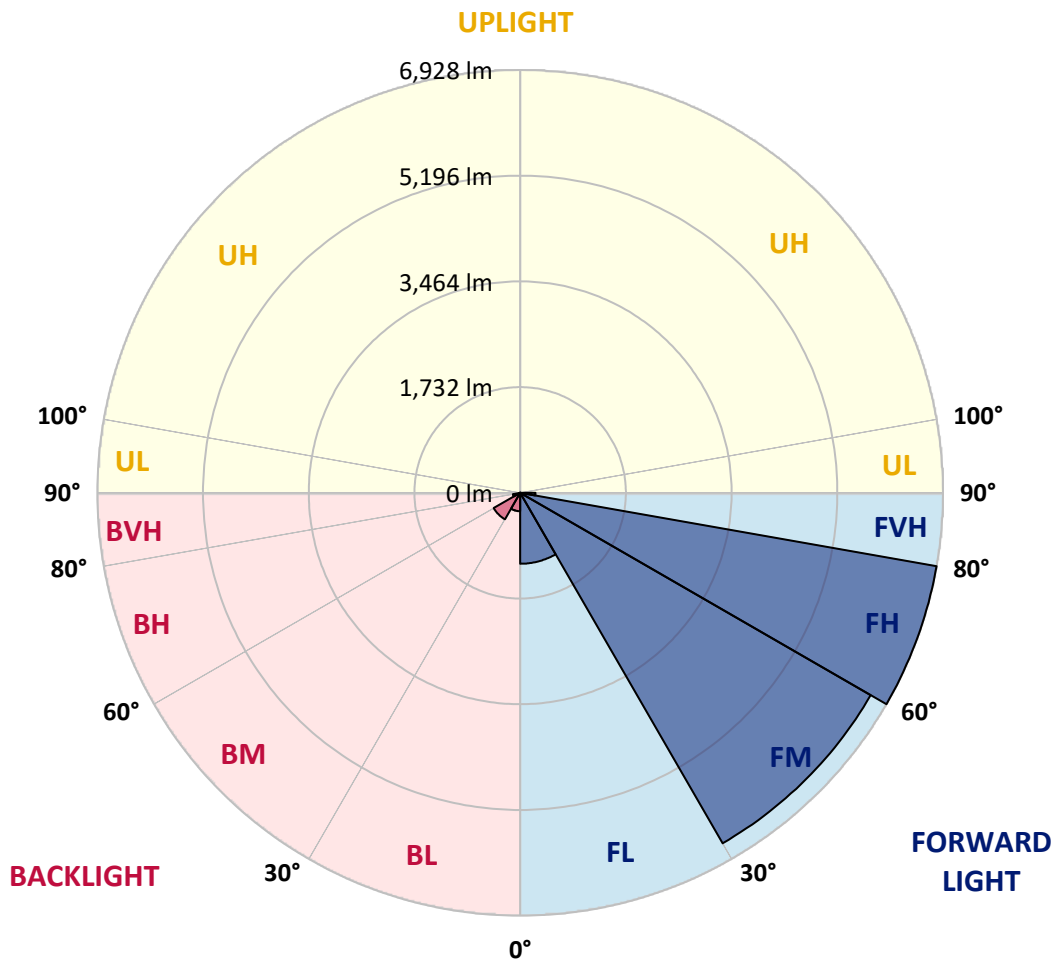
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1162.9	7.3			
FM	(30°-60°)	6630.1	41.7			
FH	(60°-80°)	6927.6	43.6			G3/7500
FVH	(80°-90°)	251.1	1.6			G3/500
BL	(0°-30°)	301.4	1.9	B1/500		
BM	(30°-60°)	500.0	3.1	B1/1000		
BH	(60°-80°)	120.8	0.8	B1/500		G1/500
BVH	(80°-90°)	8.1	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°	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8
2.5°	2608.7	2594.5	2586.0	2574.6	2560.4	2548.1	2543.4	2508.4	2475.2	2429.8	2377.7
5°	2657.0	2652.2	2637.1	2621.9	2604.9	2586.0	2575.6	2533.9	2486.6	2420.3	2329.5
7.5°	2661.7	2656.0	2637.1	2616.3	2592.6	2569.9	2551.9	2510.3	2466.7	2399.5	2288.8
10°	2654.1	2647.5	2633.3	2610.6	2581.2	2559.5	2541.5	2501.7	2464.8	2404.2	2281.2
12.5°	2645.6	2639.0	2632.4	2621.0	2595.4	2580.3	2565.2	2527.3	2494.2	2443.0	2308.6
15°	2654.1	2650.3	2657.9	2653.2	2639.0	2625.7	2610.6	2576.5	2546.2	2503.6	2358.8
17.5°	2690.1	2690.1	2713.8	2716.6	2703.3	2684.4	2662.6	2628.6	2603.0	2567.0	2418.4
20°	2774.3	2771.5	2801.8	2807.5	2775.3	2745.9	2713.8	2672.1	2652.2	2629.5	2477.1
22.5°	2919.2	2905.9	2923.9	2918.2	2854.8	2809.4	2769.6	2718.5	2708.1	2697.7	2542.4
25°	3107.5	3100.0	3112.3	3056.4	2944.7	2883.2	2835.9	2778.1	2778.1	2788.5	2616.3
27.5°	3381.1	3352.7	3311.0	3212.6	3045.1	2966.5	2915.4	2853.8	2869.9	2908.7	2713.8
30°	3661.3	3630.0	3534.4	3383.0	3167.2	3084.8	3025.2	2960.8	2998.7	3069.7	2844.4
32.5°	3937.6	3902.6	3767.3	3576.1	3342.3	3259.9	3202.2	3131.2	3194.6	3313.9	3035.6
35°	4205.5	4174.3	4018.1	3792.8	3575.1	3507.0	3454.0	3392.4	3473.8	3640.4	3305.4
37.5°	4506.5	4472.4	4282.2	4038.0	3858.1	3808.9	3770.1	3708.6	3850.6	4094.8	3681.1
40°	4876.6	4818.9	4562.4	4319.1	4185.6	4162.0	4135.5	4127.0	4347.5	4685.4	4181.9
42.5°	5300.7	5206.0	4855.8	4615.4	4545.3	4562.4	4555.7	4593.6	4969.4	5419.9	4791.4
45°	5724.7	5602.6	5182.4	4931.5	4941.0	5000.6	5037.5	5189.0	5748.4	6262.4	5447.4
47.5°	6084.4	5964.2	5495.7	5273.2	5386.8	5504.2	5604.5	5891.3	6549.2	7091.6	5957.6
50°	6392.1	6278.5	5827.9	5649.0	5904.6	6093.9	6256.7	6681.7	7410.5	7722.9	6315.4
52.5°	6643.8	6568.1	6172.5	6079.7	6496.2	6773.5	7012.0	7521.3	8173.5	8235.9	6593.7
55°	6889.0	6835.0	6542.6	6591.8	7190.9	7568.6	7870.6	8412.0	8830.4	8663.8	6860.6
57.5°	7171.1	7121.8	6964.7	7241.1	8104.4	8579.5	8908.9	9201.4	9408.7	9101.1	7112.4
60°	7458.8	7430.4	7434.2	7962.4	9153.1	9609.4	9791.1	9866.8	9976.6	9512.8	7126.6
62.5°	7733.3	7787.3	7970.9	8765.1	10157.4	10507.7	10599.5	10674.2	10545.5	9578.1	6584.2
65°	8198.1	8286.1	8724.4	9839.4	11262.1	11636.9	11731.5	11475.0	10635.4	8733.8	5355.6
67.5°	8425.2	8586.2	9368.0	10840.8	12333.5	12750.0	12715.0	11527.1	9544.1	6659.9	3436.9
69°	8377.9	8549.2	9516.6	11147.5	12689.4	13067.1	12844.7	10890.1	8130.9	4824.6	2109.9
70°	8190.5	8363.7	9439.9	11136.2	12734.9	13034.0	12604.3	10103.5	6874.8	3527.8	1319.5
72.5°	6839.8	6989.3	8380.8	10065.6	11731.5	11488.3	10544.6	6999.7	3349.8	960.7	297.2
75°	4210.3	4293.6	6013.4	7582.8	8860.7	8235.9	7025.3	3482.4	998.6	271.7	164.7
77.5°	2224.4	2262.3	3292.1	4469.6	5616.8	4647.6	3600.7	1358.3	460.0	170.4	119.3
80°	1314.8	1343.2	1772.9	2043.6	2430.7	2030.3	1439.7	833.9	329.4	107.0	106.0
82.5°	752.5	770.5	1285.4	1135.9	957.9	817.8	716.5	790.4	197.8	71.9	109.8
85°	276.4	280.2	723.2	864.2	569.8	338.9	355.9	655.0	53.0	45.4	86.1
87.5°	128.7	125.9	372.0	529.1	333.2	214.9	277.3	143.9	20.8	29.3	23.7
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°	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8	2375.8
2.5°	2347.4	2312.4	2249.0	2183.7	2117.4	2066.3	2016.2	1976.4	1963.1	1938.5	1940.4
5°	2275.5	2211.1	2078.6	1944.2	1804.1	1688.6	1579.8	1491.8	1449.2	1405.6	1405.6
7.5°	2213.0	2119.3	1912.0	1693.4	1467.2	1276.9	1105.6	976.8	905.8	849.1	848.1
10°	2189.4	2062.5	1772.9	1459.6	1144.4	885.0	681.5	550.9	483.7	440.1	438.3
12.5°	2199.8	2042.7	1665.9	1243.8	848.1	568.9	394.7	310.5	282.1	268.8	268.8
15°	2230.1	2037.0	1559.0	1032.7	599.2	355.9	262.2	239.5	237.6	237.6	237.6
17.5°	2267.0	2038.9	1449.2	827.3	408.0	254.6	226.2	223.4	225.3	225.3	225.3
20°	2304.8	2039.8	1330.8	637.0	287.8	221.5	213.0	212.0	213.9	213.9	214.9
22.5°	2351.2	2044.5	1212.5	476.1	237.6	209.2	202.6	202.6	203.5	203.5	202.6
25°	2404.2	2054.0	1089.5	353.1	216.8	200.7	195.0	194.0	195.0	194.0	193.1
27.5°	2470.5	2067.3	952.2	276.4	207.3	192.1	187.4	187.4	186.5	185.5	184.6
30°	2553.8	2082.4	797.9	234.7	197.8	184.6	179.8	178.9	178.0	176.1	176.1
32.5°	2680.6	2115.5	645.5	213.0	187.4	174.2	170.4	170.4	168.5	166.6	165.6
35°	2875.6	2180.9	509.2	199.7	176.1	162.8	158.1	158.1	156.2	155.2	154.3
37.5°	3145.4	2280.2	395.7	187.4	164.7	150.5	145.8	144.8	142.9	141.0	140.1
40°	3504.1	2403.3	311.4	176.1	153.3	138.2	134.4	132.5	128.7	125.9	125.9
42.5°	3954.7	2543.4	252.7	163.8	140.1	126.8	124.0	121.2	114.5	111.7	110.7
45°	4426.1	2669.3	213.9	149.6	126.8	115.5	113.6	108.9	100.3	97.5	97.5
47.5°	4765.9	2698.6	188.4	136.3	114.5	103.2	102.2	93.7	86.1	84.2	83.3
50°	4977.9	2640.9	167.5	123.1	103.2	91.8	89.0	78.6	73.8	71.9	71.0
52.5°	5120.8	2537.7	150.5	111.7	92.8	81.4	74.8	67.2	63.4	61.5	61.5
55°	5235.4	2391.9	133.5	101.3	84.2	72.9	63.4	57.7	54.0	52.1	52.1
57.5°	5267.6	2194.1	116.4	92.8	75.7	64.4	54.0	50.2	45.4	44.5	44.5
60°	5033.8	1837.3	103.2	82.3	68.2	55.8	47.3	42.6	37.9	36.9	36.0
62.5°	4417.5	1421.7	90.9	72.9	59.6	48.3	40.7	35.0	31.2	31.2	31.2
65°	3369.7	953.2	79.5	63.4	52.1	40.7	35.0	28.4	26.5	26.5	27.4
67.5°	2017.1	518.7	68.2	54.0	44.5	34.1	29.3	24.6	23.7	24.6	24.6
69°	1182.2	304.8	61.5	48.3	38.8	30.3	25.6	21.8	23.7	24.6	24.6
70°	729.8	205.4	56.8	43.5	35.0	27.4	23.7	20.8	22.7	23.7	23.7
72.5°	203.5	106.0	45.4	34.1	28.4	22.7	18.9	18.9	21.8	22.7	22.7
75°	132.5	78.6	35.0	25.6	21.8	18.0	16.1	18.0	20.8	21.8	21.8
77.5°	109.8	64.4	28.4	20.8	18.0	17.0	15.1	16.1	18.9	19.9	19.9
80°	100.3	45.4	22.7	18.9	16.1	15.1	14.2	13.3	17.0	18.0	18.0
82.5°	95.6	36.0	19.9	17.0	15.1	13.3	12.3	13.3	15.1	16.1	17.0
85°	59.6	23.7	18.0	16.1	13.3	12.3	12.3	12.3	14.2	15.1	15.1
87.5°	21.8	18.9	16.1	13.3	11.4	11.4	11.4	11.4	12.3	14.2	14.2
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)