

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: P942796

Luminaire Tested: **GALN-SB7A-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-722-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20668 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 199.1
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: 24 FT

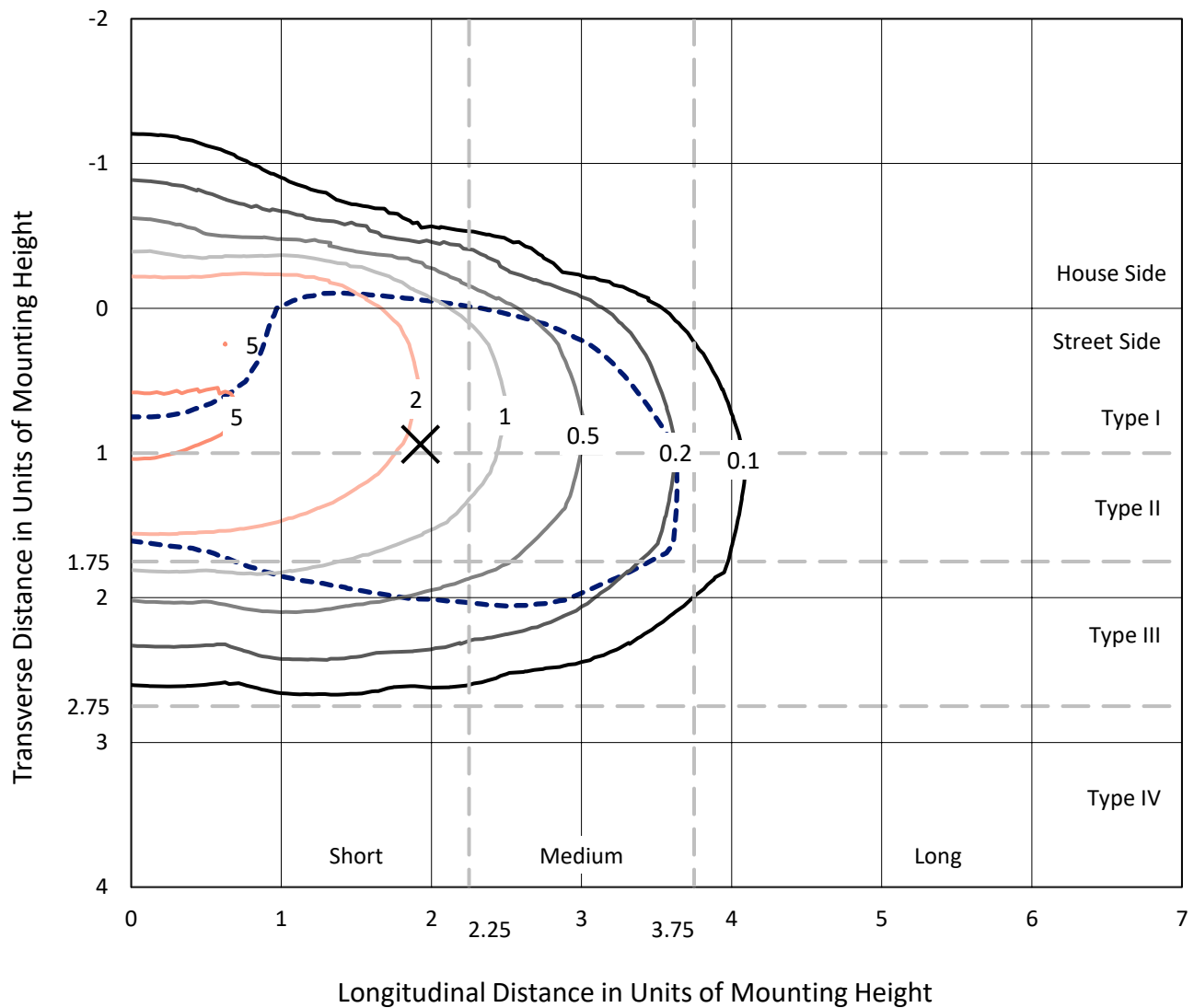


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

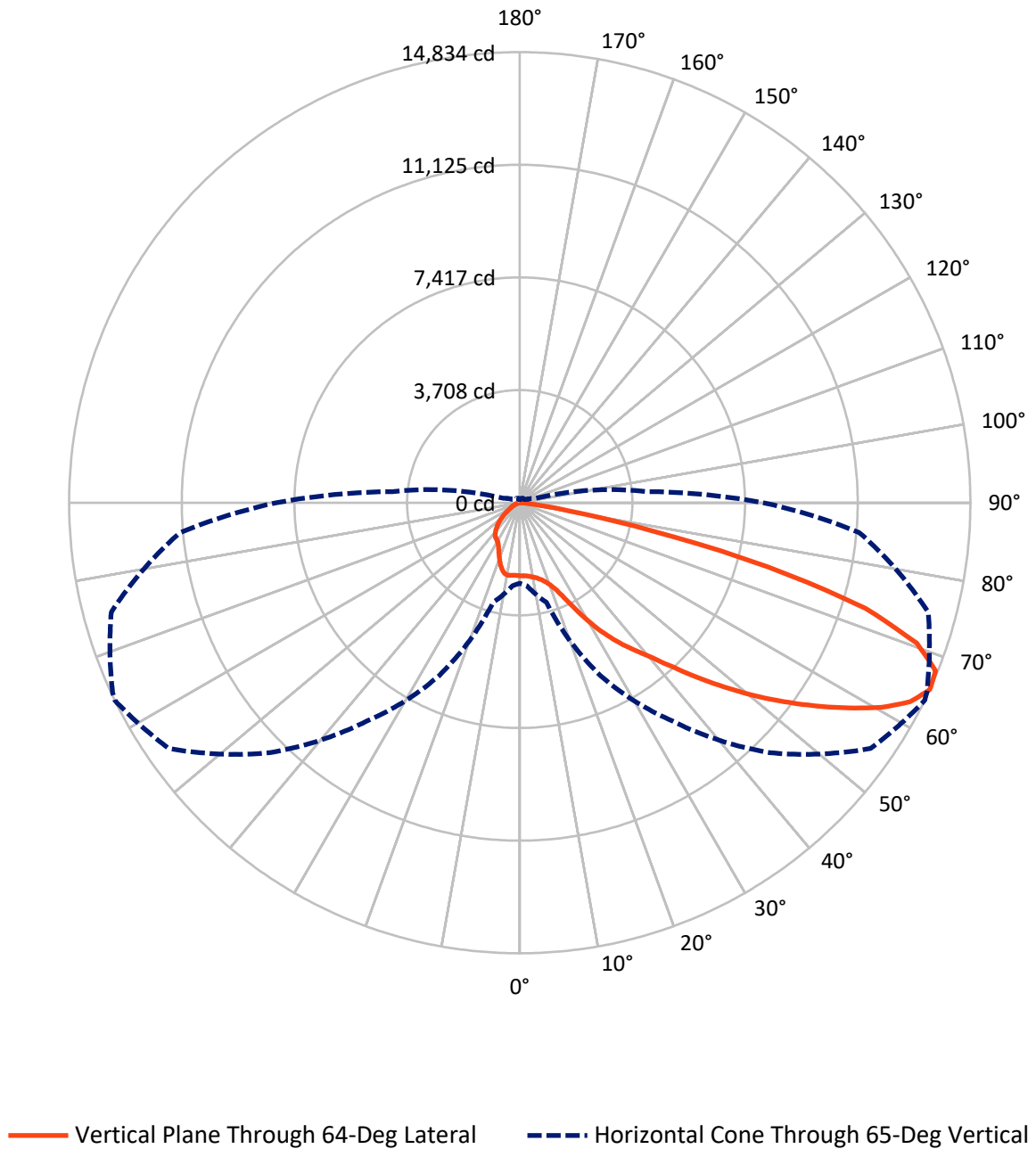


Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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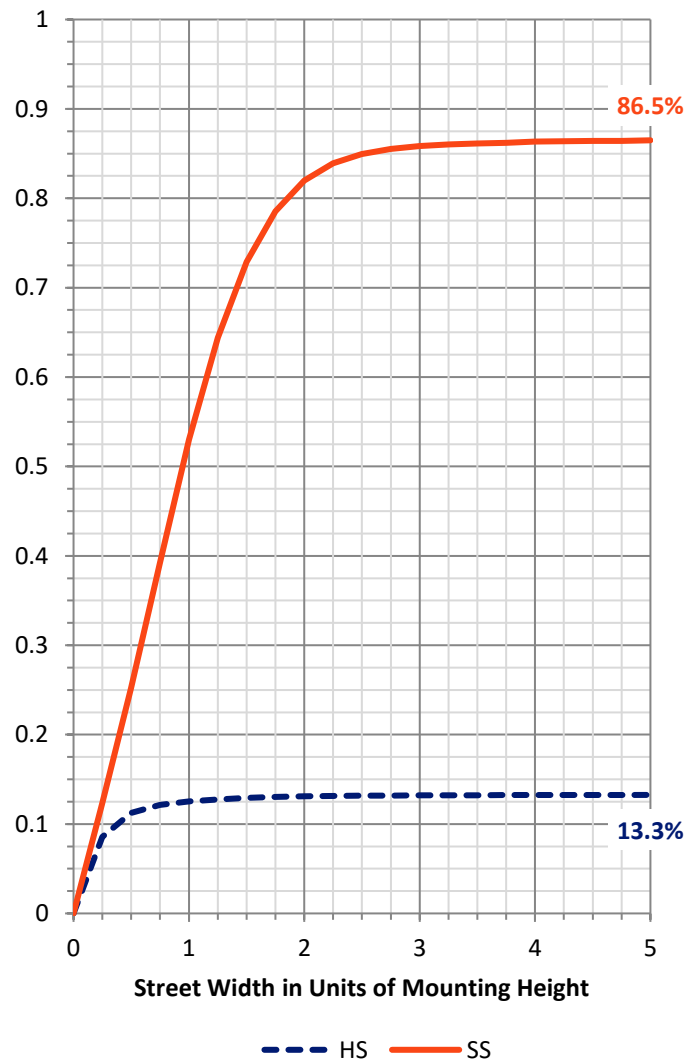
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2763.9	0.0	2763.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	17904.1	0.0	17904.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	20668.0	0.0	20668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.8	1.1
10°-20°	601.5	2.9
20°-30°	1139.9	5.5
30°-40°	2306.6	11.2
40°-50°	3929.2	19.0
50°-60°	5343.5	25.9
60°-70°	5017.8	24.3
70°-80°	2010.3	9.7
80°-90°	97.4	0.5
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°	20668.0	100.0
0°-180°	20668.0	100.0

Coefficient of Utilization



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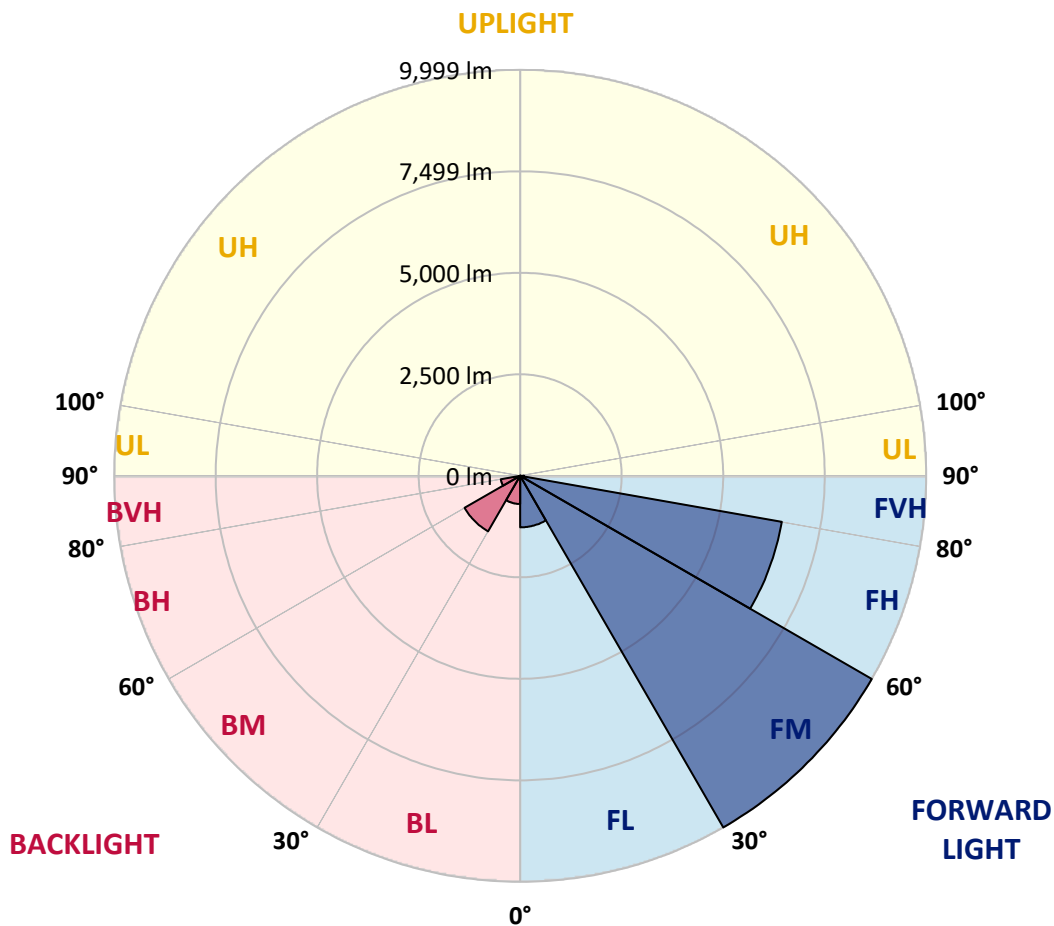
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1269.3	6.1			
FM	(30°-60°)	9999.2	48.4			
FH	(60°-80°)	6543.0	31.7			G3/7500
FVH	(80°-90°)	92.6	0.4			G1/100
BL	(0°-30°)	693.9	3.4	B2/1000		
BM	(30°-60°)	1580.1	7.6	B2/2500		
BH	(60°-80°)	485.1	2.3	B1/500		G1/500
BVH	(80°-90°)	4.8	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2403.9	2403.9	2403.9	2403.9	2403.9	2403.9	2403.9	2403.9	2403.9	2403.9	2403.9
2.5°	2395.6	2412.2	2408.1	2403.9	2402.5	2405.3	2406.7	2405.3	2405.3	2405.3	2406.7
5°	2349.9	2363.7	2363.7	2373.4	2387.3	2403.9	2416.4	2419.1	2421.9	2426.1	2424.7
7.5°	2262.6	2273.7	2282.0	2313.8	2348.5	2392.8	2430.2	2449.6	2452.4	2467.6	2473.2
10°	2203.0	2216.9	2230.7	2264.0	2313.8	2380.3	2444.1	2491.2	2498.1	2534.1	2550.8
12.5°	2200.2	2214.1	2232.1	2268.1	2326.3	2397.0	2474.6	2542.5	2554.9	2607.6	2642.2
15°	2229.3	2246.0	2262.6	2306.9	2369.3	2455.2	2538.3	2622.8	2635.3	2710.1	2747.5
17.5°	2288.9	2311.1	2323.5	2367.9	2434.4	2530.0	2639.4	2736.4	2747.5	2834.8	2881.9
20°	2406.7	2433.0	2437.2	2473.2	2538.3	2640.8	2771.1	2891.6	2905.5	3005.2	3057.9
22.5°	2650.5	2687.9	2654.7	2672.7	2730.9	2833.4	2974.7	3127.2	3146.5	3260.2	3307.3
25°	3080.0	3132.7	3046.8	3016.3	3041.2	3147.9	3325.3	3517.9	3540.0	3631.5	3655.0
27.5°	3923.8	3855.9	3725.7	3598.2	3523.4	3584.4	3783.9	4022.2	4049.9	4138.6	4110.9
30°	4850.8	4791.2	4615.2	4332.6	4155.2	4145.5	4329.8	4595.8	4627.7	4712.2	4627.7
32.5°	5779.1	5722.3	5531.1	5183.3	4875.7	4723.3	4850.8	5145.9	5162.5	5216.5	5091.8
35°	6692.1	6633.9	6442.7	6086.7	5708.4	5362.0	5337.1	5669.6	5675.2	5732.0	5546.3
37.5°	7610.7	7562.2	7358.6	7009.4	6636.7	6158.7	5927.3	6165.6	6172.6	6228.0	6035.4
40°	8266.1	8286.9	8146.9	7876.8	7556.7	7034.4	6589.6	6693.5	6652.0	6744.8	6629.8
42.5°	8828.6	8870.2	8748.3	8612.5	8426.8	7966.8	7409.8	7391.8	7325.3	7375.2	7256.0
45°	9315.0	9349.6	9240.1	9208.3	9204.1	8881.3	8306.3	8198.2	8105.4	8095.7	7953.0
47.5°	9493.7	9560.2	9607.3	9714.0	9921.8	9786.0	9233.2	9065.6	8961.6	8885.4	8659.6
50°	9561.6	9632.2	9793.0	10103.3	10595.2	10653.4	10156.0	9967.5	9840.1	9701.5	9369.0
52.5°	9470.1	9596.2	9812.4	10334.7	11048.3	11348.9	11041.3	10876.4	10731.0	10505.1	10011.9
55°	8931.2	9057.2	9499.2	10331.9	11274.1	11836.6	11878.2	11804.8	11641.3	11285.2	10531.5
57.5°	7795.0	7982.1	8681.8	9980.0	11269.9	12256.4	12698.4	12751.1	12568.2	12058.3	10940.2
60°	6221.1	6474.6	7328.1	9200.0	10922.2	12483.7	13417.5	13680.8	13486.8	12820.4	11271.3
62.5°	4340.9	4634.6	5442.4	7977.9	10126.9	12320.2	13942.6	14429.0	14282.1	13502.0	11398.8
65°	2647.8	2742.0	3393.2	6277.9	8774.6	11635.7	14104.7	14833.5	14785.0	13919.1	11210.4
67.5°	1763.8	1842.8	2029.8	4304.9	6811.3	10268.2	13716.8	14762.9	14776.7	13851.2	10520.4
70°	1062.7	1130.6	1252.5	2503.7	4414.3	8127.5	12515.5	13862.3	13942.6	12943.7	9212.4
72.5°	437.8	483.6	594.4	1134.8	2286.1	5158.3	9966.2	11901.7	12088.8	10883.4	7070.4
75°	248.0	271.6	349.2	569.5	992.0	2403.9	6036.8	8449.0	8724.7	7501.3	4253.6
77.5°	164.9	176.0	225.8	368.6	558.4	820.2	2579.9	4401.8	4928.3	4097.0	1841.4
80°	110.8	120.5	155.2	246.6	363.0	351.9	821.6	1630.8	2006.3	1407.7	448.9
82.5°	74.8	76.2	110.8	162.1	230.0	170.4	242.5	507.1	637.3	407.3	170.4
85°	43.0	41.6	81.7	94.2	102.5	70.7	73.4	152.4	199.5	171.8	97.0
87.5°	5.5	8.3	31.9	24.9	13.9	15.2	15.2	26.3	38.8	41.6	20.8
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°	2403.9	2403.9	2403.9	2403.9	2403.9	2403.9	2403.9	2403.9	2403.9	2403.9	2403.9
2.5°	2406.7	2405.3	2401.1	2397.0	2387.3	2381.7	2384.5	2381.7	2380.3	2381.7	2387.3
5°	2424.7	2420.5	2409.4	2395.6	2376.2	2352.6	2337.4	2315.2	2294.4	2282.0	2284.7
7.5°	2473.2	2469.0	2453.8	2415.0	2352.6	2254.3	2164.2	2085.2	2025.7	1991.0	1992.4
10°	2550.8	2543.8	2520.3	2434.4	2270.9	2056.1	1877.4	1729.1	1632.2	1586.4	1582.3
12.5°	2642.2	2633.9	2592.3	2416.4	2115.7	1780.4	1533.8	1368.9	1278.8	1238.7	1234.5
15°	2750.3	2739.2	2657.5	2330.5	1889.9	1475.6	1249.8	1126.4	1068.2	1032.2	1033.6
17.5°	2884.7	2865.3	2705.9	2201.6	1644.6	1242.8	1075.2	982.3	931.1	896.4	893.7
20°	3059.3	3027.4	2744.7	2047.8	1418.8	1096.0	957.4	879.8	841.0	810.5	805.0
22.5°	3303.1	3257.4	2791.9	1881.6	1259.5	994.8	870.1	813.3	781.4	746.8	741.3
25°	3605.2	3551.1	2850.0	1727.8	1150.0	907.5	806.4	759.3	721.9	681.7	677.5
27.5°	4027.7	3930.8	2919.3	1601.7	1055.8	832.7	748.2	695.5	652.6	619.3	612.4
30°	4498.8	4339.5	2980.3	1525.5	969.9	763.4	672.0	619.3	579.2	555.6	551.4
32.5°	4945.0	4728.8	3020.5	1492.2	892.3	684.5	588.9	532.0	501.6	494.6	498.8
35°	5366.2	5080.8	3016.3	1460.4	823.0	605.5	507.1	448.9	425.4	429.5	429.5
37.5°	5851.1	5456.2	2987.2	1410.5	766.2	533.4	436.4	385.2	364.4	365.8	371.3
40°	6415.0	5889.9	2969.2	1316.3	703.9	466.9	378.3	336.7	321.4	315.9	314.5
42.5°	7016.3	6309.7	2972.0	1209.6	626.3	407.3	338.1	303.4	289.6	285.4	284.0
45°	7620.4	6710.1	2976.1	1098.7	544.5	361.6	309.0	279.9	271.6	266.0	266.0
47.5°	8188.5	7051.0	2898.5	979.6	464.2	327.0	285.4	266.0	259.1	252.2	252.2
50°	8717.8	7278.2	2711.5	841.0	400.4	299.3	267.4	253.6	246.6	239.7	239.7
52.5°	9129.3	7314.2	2402.5	698.3	356.1	278.5	256.3	243.9	235.5	228.6	227.2
55°	9312.2	7088.4	1963.3	565.3	321.4	260.5	245.2	232.8	223.1	216.1	214.8
57.5°	9265.1	6613.2	1531.0	454.5	288.2	242.5	231.4	223.1	212.0	200.9	199.5
60°	9033.7	5977.2	1154.2	378.3	257.7	223.1	216.1	209.2	194.0	177.3	174.6
62.5°	8633.3	5177.7	823.0	313.1	224.5	200.9	198.1	192.6	170.4	139.9	137.2
65°	8020.9	4206.5	554.2	260.5	192.6	176.0	177.3	167.6	138.6	103.9	101.1
67.5°	7125.8	3075.9	354.7	213.4	160.7	146.9	148.3	142.7	117.8	88.7	84.5
70°	5985.5	2036.7	231.4	162.1	128.9	113.6	121.9	123.3	99.8	72.0	69.3
72.5°	4388.0	1202.6	162.1	120.5	94.2	79.0	99.8	102.5	80.4	54.0	51.3
75°	2500.9	570.8	121.9	87.3	58.2	55.4	77.6	77.6	55.4	36.0	33.3
77.5°	1050.2	238.3	85.9	56.8	33.3	31.9	52.7	48.5	27.7	16.6	16.6
80°	303.4	106.7	45.7	27.7	13.9	12.5	20.8	15.2	6.9	2.8	2.8
82.5°	119.2	47.1	18.0	11.1	5.5	5.5	2.8	0.0	0.0	0.0	0.0
85°	70.7	19.4	8.3	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.0	4.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)