

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: P948814

Luminaire Tested: **GALN-SB3D-730-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-730-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23334 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1
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



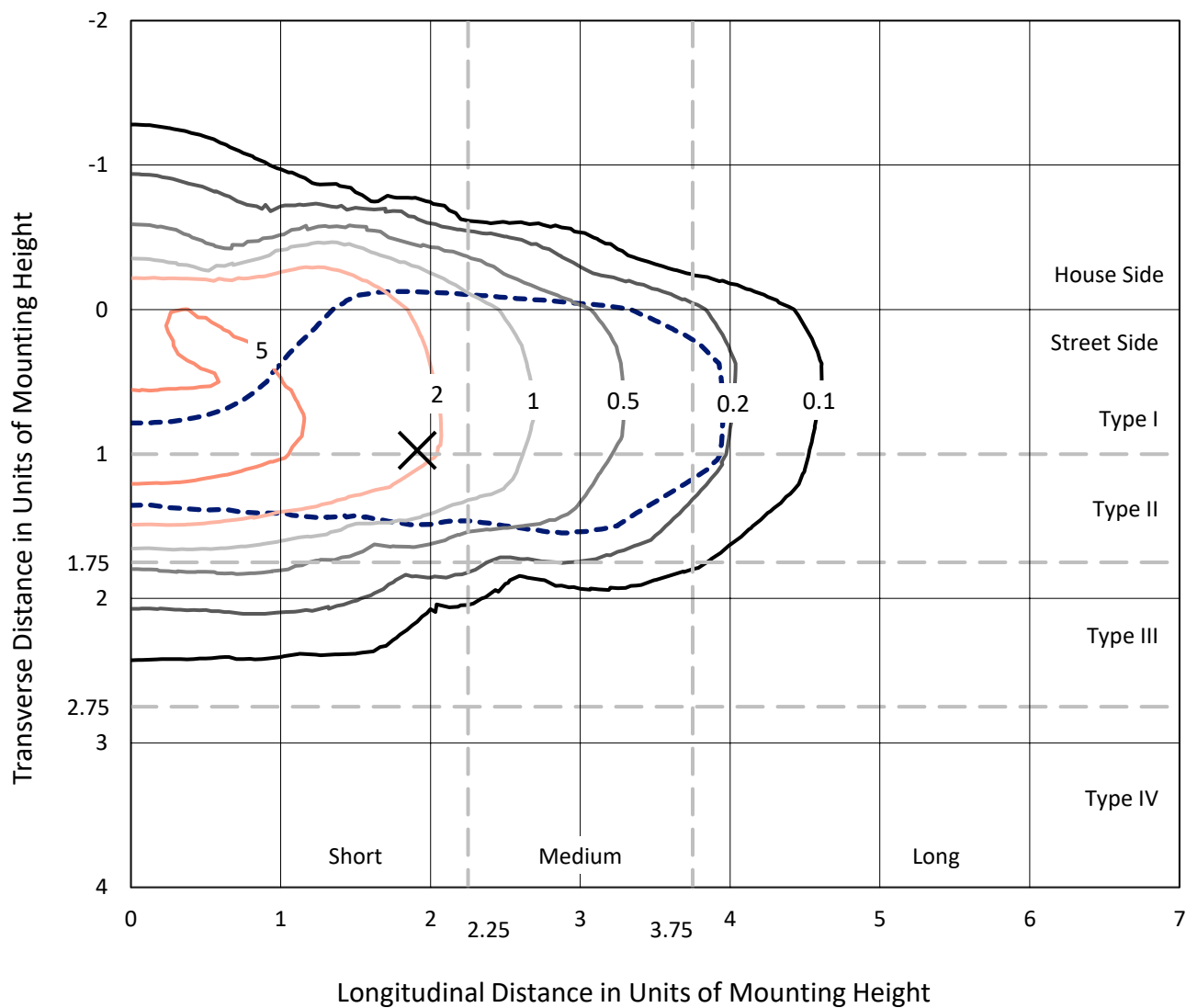
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

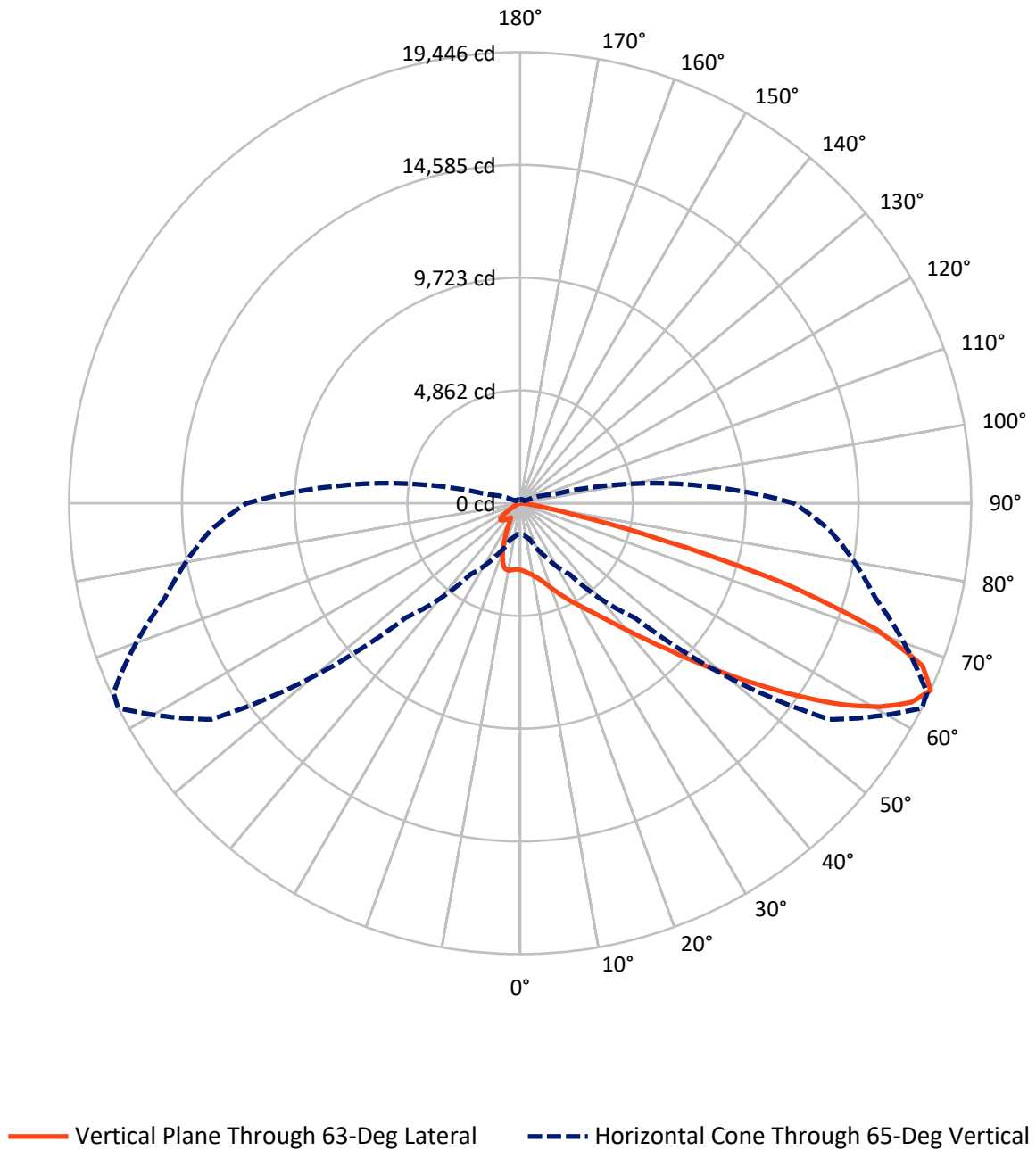
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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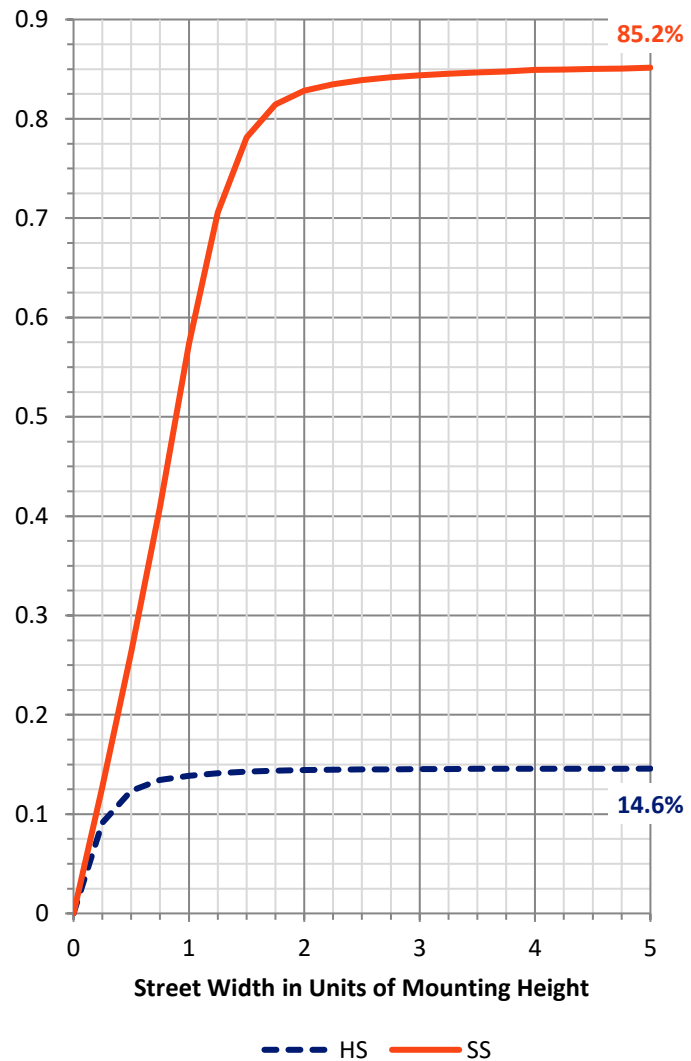
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3429.9	0.0	3429.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	19904.1	0.0	19904.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	23334.0	0.0	23334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.3	1.2
10°-20°	752.9	3.2
20°-30°	1310.9	5.6
30°-40°	2362.8	10.1
40°-50°	4686.2	20.1
50°-60°	6383.4	27.4
60°-70°	5095.2	21.8
70°-80°	2305.7	9.9
80°-90°	165.7	0.7
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°	23334.0	100.0
0°-180°	23334.0	100.0

Coefficient of Utilization



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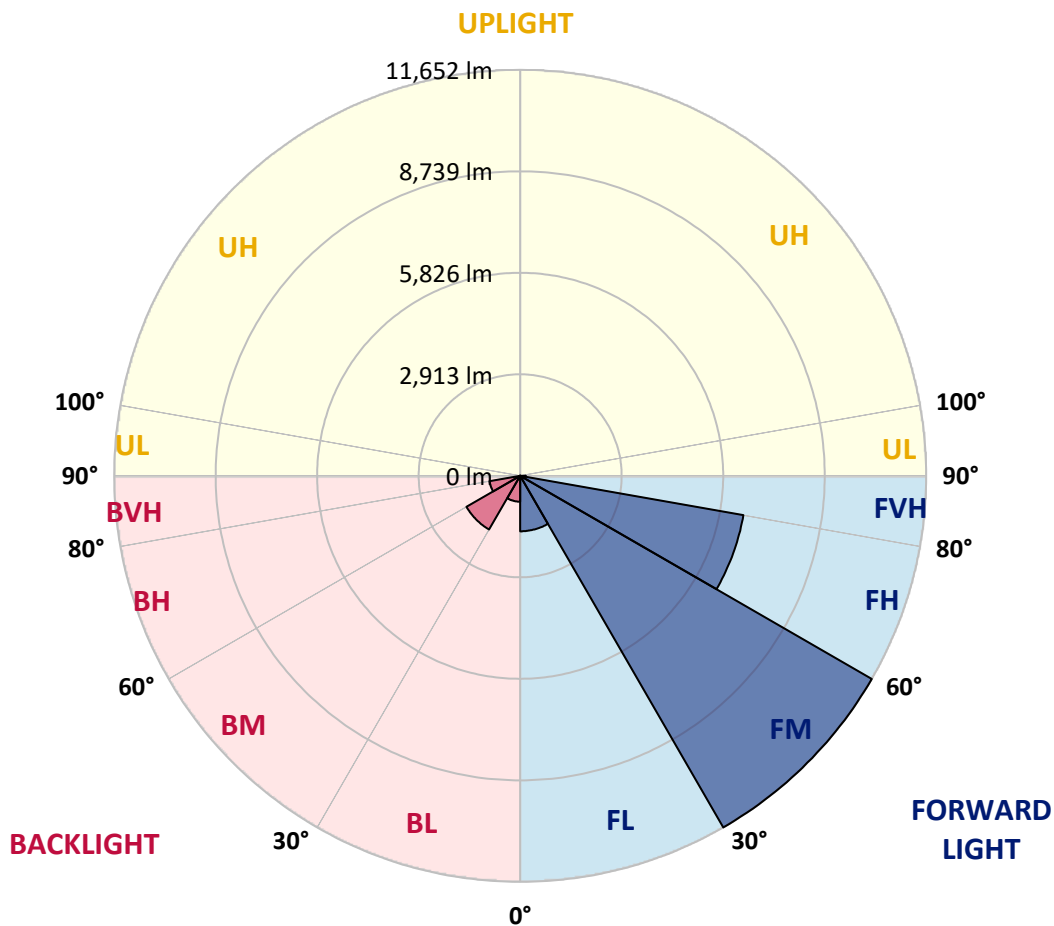
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1592.8	6.8			
FM	(30°-60°)	11652.4	49.9			
FH	(60°-80°)	6505.4	27.9			G3/7500
FVH	(80°-90°)	153.4	0.7			G2/225
BL	(0°-30°)	742.3	3.2	B2/1000		
BM	(30°-60°)	1779.9	7.6	B2/2500		
BH	(60°-80°)	895.4	3.8	B2/1000		G2/1000
BVH	(80°-90°)	12.3	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9
2.5°	2947.3	2939.3	2950.5	2945.7	2942.5	2936.0	2932.8	2929.6	2923.2	2918.4	2899.1
5°	2955.3	2950.5	2961.7	2971.4	2981.0	2990.6	2995.4	3001.9	2995.4	2982.6	2963.3
7.5°	2887.9	2884.7	2908.8	2937.6	2981.0	3017.9	3058.0	3080.5	3082.1	3077.3	3056.4
10°	2883.1	2875.0	2899.1	2934.4	2990.6	3056.4	3127.1	3175.2	3181.6	3202.5	3180.0
12.5°	2958.5	2950.5	2984.2	3022.7	3080.5	3149.5	3236.2	3303.6	3313.3	3342.2	3326.1
15°	3085.3	3074.1	3112.6	3162.4	3236.2	3314.9	3406.4	3467.4	3475.4	3510.7	3481.8
17.5°	3233.0	3221.8	3266.7	3319.7	3400.0	3507.5	3613.5	3680.9	3690.5	3713.0	3660.0
20°	3422.4	3408.0	3443.3	3491.5	3576.5	3705.0	3831.8	3928.1	3926.5	3926.5	3839.8
22.5°	3642.4	3619.9	3650.4	3688.9	3769.2	3924.9	4093.4	4207.4	4207.4	4162.5	4019.6
25°	3878.3	3855.9	3889.6	3924.9	3995.5	4172.1	4369.5	4510.8	4517.2	4440.2	4212.2
27.5°	4173.7	4144.8	4170.5	4212.2	4254.0	4433.8	4668.1	4831.9	4835.1	4716.3	4395.2
30°	4742.0	4660.1	4579.8	4534.9	4554.2	4732.3	4982.8	5164.2	5180.2	5016.5	4594.3
32.5°	5782.2	5766.1	5483.6	5114.4	4921.8	5053.4	5334.3	5552.6	5562.3	5352.0	4852.7
35°	7398.7	7379.4	6925.1	6222.0	5594.4	5483.6	5761.3	6019.8	6013.3	5775.8	5188.2
37.5°	9328.2	9310.6	8711.8	7771.1	6755.0	6133.7	6311.9	6583.2	6623.3	6311.9	5621.7
40°	10976.8	10911.0	10532.2	9625.2	8296.0	7212.5	7095.3	7275.1	7316.8	6947.6	6172.3
42.5°	12225.7	12169.6	11976.9	11410.3	10161.4	8808.1	8018.3	8087.4	8133.9	7690.9	6804.7
45°	12872.7	12859.8	12936.9	12883.9	12062.0	10766.6	9337.9	9050.5	9068.2	8514.4	7522.3
47.5°	12964.2	12957.7	13309.3	13806.9	13696.2	12975.4	11031.4	10251.3	10188.7	9443.8	8302.5
50°	12424.8	12412.0	13086.2	14018.8	14787.8	14831.1	12954.5	11604.5	11466.5	10405.4	9116.3
52.5°	10702.3	10699.1	11806.8	13359.1	15171.4	16455.6	14855.2	13091.0	12859.8	11423.1	9976.8
55°	8235.0	8294.4	9564.2	11399.0	14471.5	17237.4	16561.6	14741.2	14386.4	12447.3	10769.8
57.5°	5833.6	5920.2	7175.6	8809.7	12301.2	16775.1	17715.8	16394.6	16012.6	13468.2	11574.0
60°	3133.5	3210.5	4467.5	6417.9	9151.7	15051.0	18324.2	17829.7	17468.6	14437.8	12299.6
62.5°	1866.9	1892.6	2412.7	4143.2	6189.9	11498.6	18065.7	18922.9	18626.0	15251.7	12930.5
65°	1340.4	1345.2	1606.9	2529.9	3757.9	6986.1	16253.4	19446.3	19354.8	15864.9	13397.6
67.5°	1128.5	1125.3	1234.5	1680.7	2560.4	3499.5	12456.9	18706.2	19094.7	16253.4	13662.5
70°	968.0	972.8	1101.2	1231.2	1924.7	1980.9	6193.1	16287.1	17115.4	16356.1	13646.4
72.5°	720.8	736.8	855.6	1122.1	1452.8	1362.9	2138.2	12076.5	13574.2	15410.6	12938.5
75°	508.9	516.9	602.0	943.9	1083.6	992.1	1091.6	6242.9	8162.8	11814.8	10590.0
77.5°	391.7	406.1	455.9	659.8	1067.5	696.7	667.8	2160.7	3319.7	7137.0	7260.6
80°	211.9	237.6	329.1	476.8	749.7	492.8	330.7	860.4	1125.3	3337.4	2799.6
82.5°	109.2	122.0	229.6	343.5	427.0	430.2	163.7	358.0	463.9	1030.6	383.7
85°	43.3	53.0	154.1	189.4	219.9	211.9	73.8	144.5	166.9	285.7	117.2
87.5°	9.6	16.1	56.2	43.3	41.7	44.9	17.7	33.7	32.1	33.7	20.9
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°	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9	2879.9
2.5°	2897.5	2891.1	2873.4	2854.2	2831.7	2818.9	2810.8	2809.2	2798.0	2790.0	2798.0
5°	2945.7	2939.3	2905.5	2865.4	2822.1	2788.4	2756.3	2727.4	2685.6	2677.6	2674.4
7.5°	3042.0	3024.3	2969.8	2915.2	2833.3	2735.4	2616.6	2480.1	2358.1	2321.2	2303.6
10°	3160.8	3136.7	3067.7	2971.4	2790.0	2523.5	2236.1	1969.7	1757.8	1698.4	1675.9
12.5°	3295.6	3274.8	3183.3	3005.1	2608.6	2125.4	1685.5	1354.8	1149.4	1098.0	1083.6
15°	3456.1	3425.6	3298.8	2953.7	2284.3	1614.9	1157.4	961.6	887.7	878.1	868.5
17.5°	3626.3	3576.5	3401.6	2769.1	1847.7	1147.8	894.1	838.0	805.8	796.2	791.4
20°	3782.0	3717.8	3462.6	2489.8	1380.5	894.1	801.0	764.1	735.2	724.0	717.6
22.5°	3937.7	3846.2	3462.6	2109.3	1035.4	793.0	735.2	701.5	667.8	653.3	645.3
25°	4099.9	3977.9	3401.6	1685.5	833.1	727.2	672.6	635.7	606.8	589.1	582.7
27.5°	4257.2	4088.6	3261.9	1284.2	741.6	669.4	614.8	579.5	552.2	539.4	539.4
30°	4406.5	4197.8	3066.1	974.4	682.2	613.2	561.8	531.3	504.1	491.2	492.8
32.5°	4608.7	4335.8	2857.4	799.4	630.9	560.2	513.7	484.8	460.7	451.1	451.1
35°	4889.7	4539.7	2677.6	785.0	587.5	516.9	470.3	443.1	419.0	410.9	410.9
37.5°	5287.8	4868.8	2582.9	881.3	552.2	478.4	435.0	406.1	383.7	377.2	375.6
40°	5779.0	5315.1	2634.2	977.6	528.1	444.7	402.9	374.0	354.8	346.7	345.1
42.5°	6361.7	5865.7	2918.4	1051.5	512.1	415.8	372.4	340.3	327.5	324.3	324.3
45°	7031.1	6470.8	3353.4	1130.1	486.4	388.5	341.9	317.8	308.2	306.6	305.0
47.5°	7792.0	7135.4	3857.5	1228.0	460.7	362.8	317.8	301.8	293.8	290.6	290.6
50°	8546.5	7804.8	4376.0	1282.6	439.8	338.7	298.6	285.7	279.3	277.7	277.7
52.5°	9336.3	8493.5	4794.9	1231.2	422.2	319.4	282.5	272.9	266.5	264.9	264.9
55°	10089.1	9050.5	4867.2	1045.0	386.9	300.2	264.9	260.1	252.0	252.0	250.4
57.5°	10737.7	9329.8	4356.7	767.3	351.6	271.3	247.2	242.4	236.0	234.4	232.8
60°	11333.2	9249.6	3363.0	516.9	313.0	242.4	224.7	221.5	215.1	207.1	205.5
62.5°	11668.7	8896.4	2300.4	337.1	274.5	211.9	199.1	197.4	183.0	166.9	163.7
65°	11795.5	8170.8	1435.1	245.6	229.6	181.4	171.8	168.6	147.7	130.0	128.4
67.5°	11684.8	6976.5	724.0	194.2	181.4	150.9	141.3	141.3	126.8	110.8	109.2
70°	11241.7	5230.0	305.0	155.7	139.7	115.6	115.6	122.0	107.6	89.9	88.3
72.5°	10280.2	3518.8	162.1	118.8	104.3	81.9	94.7	99.5	85.1	67.4	67.4
75°	8172.4	2146.2	112.4	88.3	65.8	57.8	72.2	75.4	57.8	44.9	43.3
77.5°	5589.6	1232.8	75.4	56.2	41.7	33.7	49.8	46.6	30.5	20.9	22.5
80°	2454.5	513.7	43.3	25.7	16.1	12.8	17.7	12.8	9.6	6.4	6.4
82.5°	287.3	120.4	16.1	9.6	6.4	3.2	1.6	0.0	0.0	0.0	0.0
85°	59.4	14.4	8.0	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	3.2	1.6	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)