

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: P948772

Luminaire Tested: **GALN-SB3D-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948772
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-722-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 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: 19276 lumens
Efficiency: N/A
Efficacy: 88.4 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

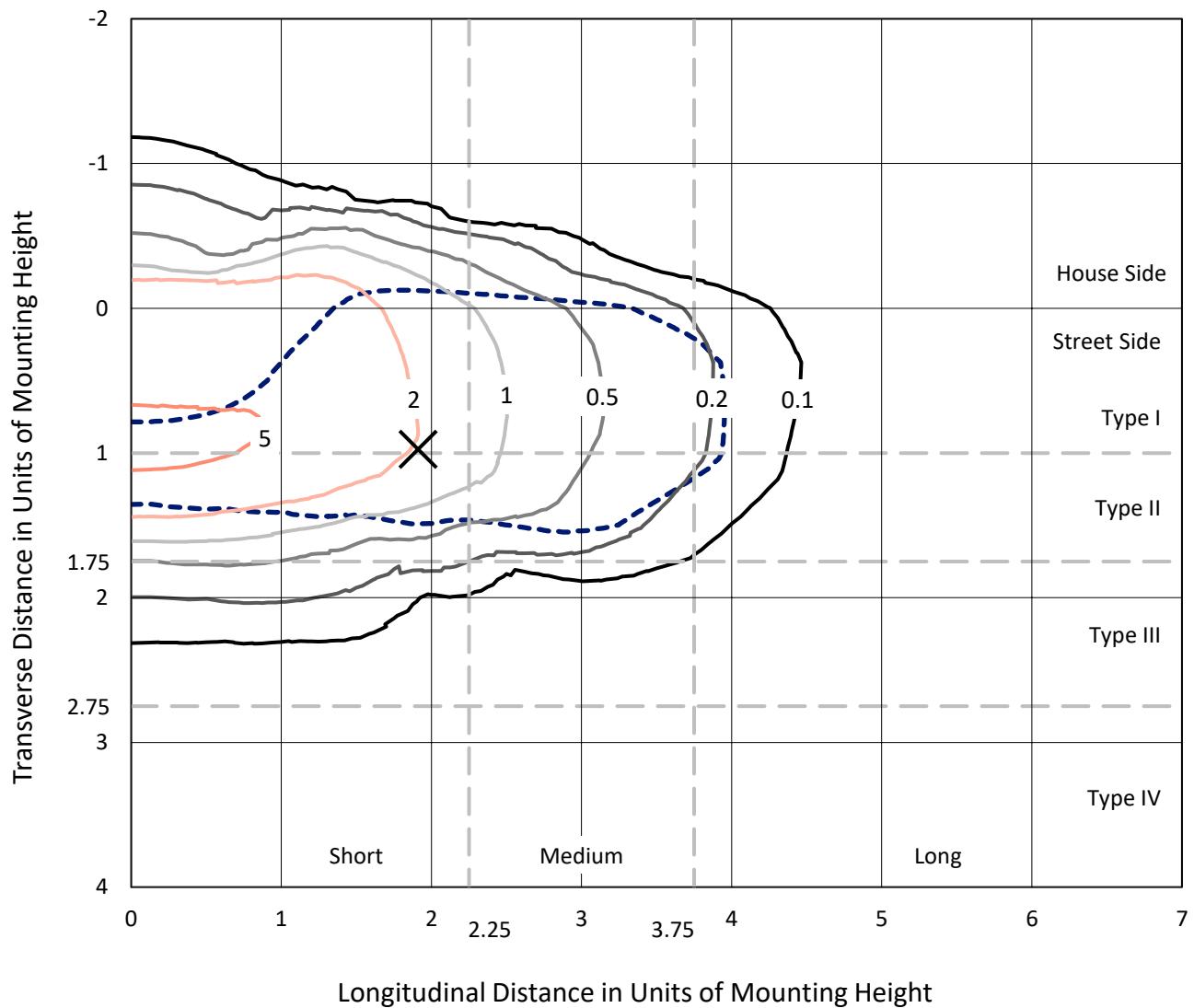


REPORT NUMBER: P948772

CATALOG NUMBER: GALN-SB3D-722-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

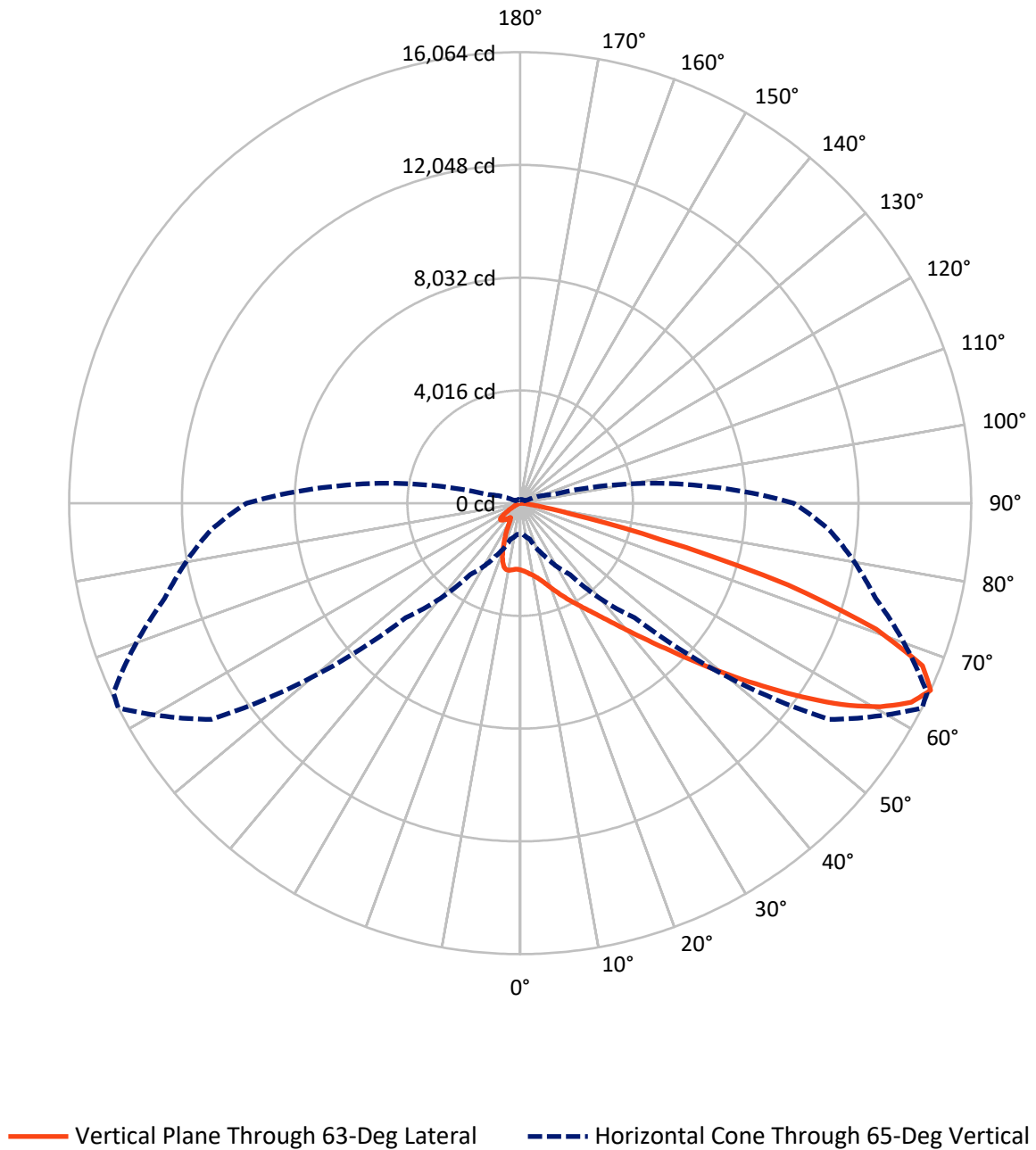


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type II - Short - N/A

REPORT NUMBER: P948772

CATALOG NUMBER: GALN-SB3D-722-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P948772

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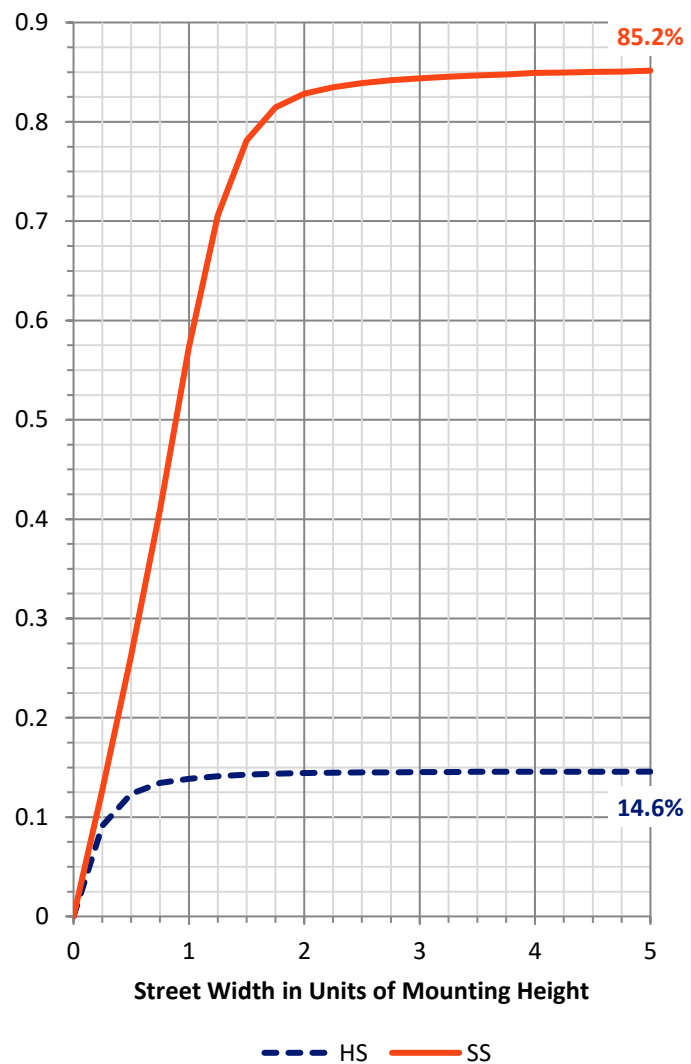
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2833.4	0.0	2833.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	16442.6	0.0	16442.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	19276.0	0.0	19276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.1	1.2
10°-20°	621.9	3.2
20°-30°	1082.9	5.6
30°-40°	1951.9	10.1
40°-50°	3871.2	20.1
50°-60°	5273.2	27.4
60°-70°	4209.1	21.8
70°-80°	1904.7	9.9
80°-90°	136.9	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°	19276.0	100.0
0°-180°	19276.0	100.0

Coefficient of Utilization



REPORT NUMBER: P948772

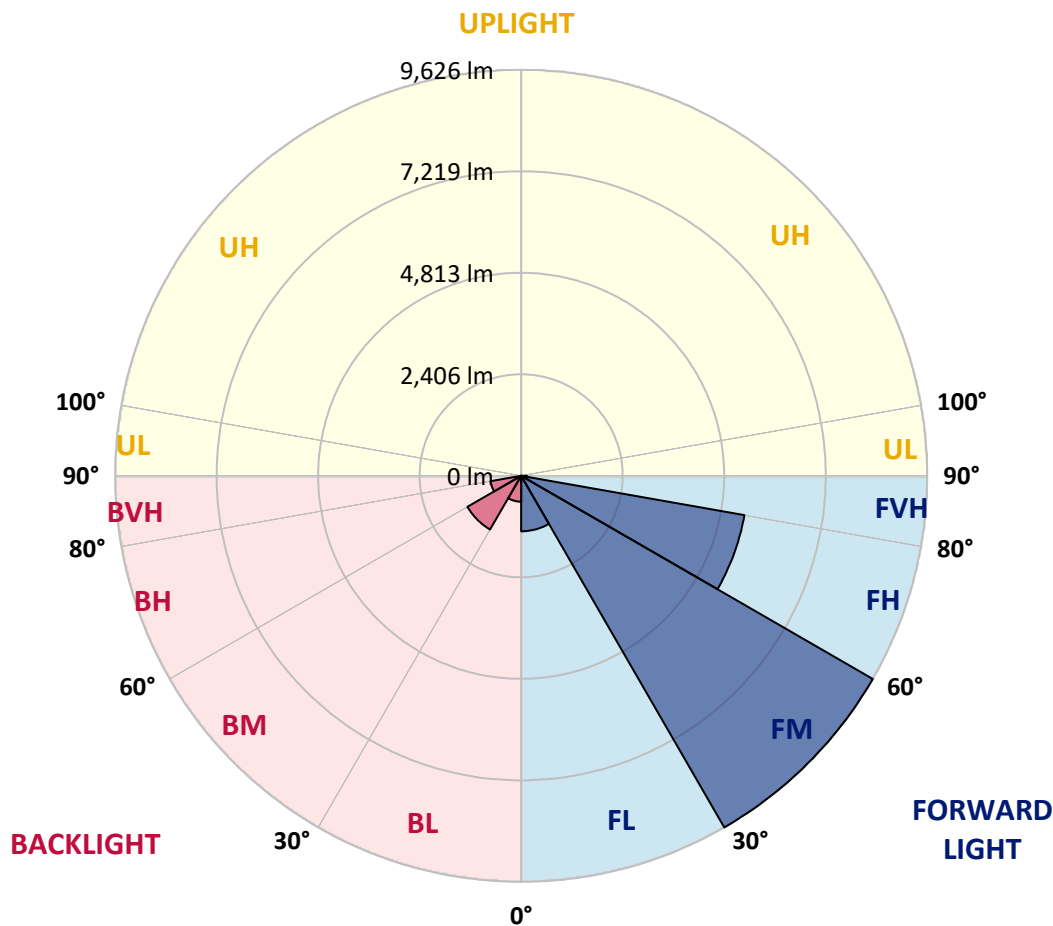
CATALOG NUMBER: GALN-SB3D-722-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1315.8	6.8			
FM	(30°-60°)	9626.0	49.9			
FH	(60°-80°)	5374.1	27.9			G3/7500
FVH	(80°-90°)	126.7	0.7			G2/225
BL	(0°-30°)	613.2	3.2	B2/1000		
BM	(30°-60°)	1470.4	7.6	B2/2500		
BH	(60°-80°)	739.7	3.8	B2/1000		G2/1000
BVH	(80°-90°)	10.2	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



REPORT NUMBER: P948772

CATALOG NUMBER: GALN-SB3D-722-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2379.0	2379.0	2379.0	2379.0	2379.0	2379.0	2379.0	2379.0	2379.0	2379.0	2379.0
2.5°	2434.7	2428.1	2437.4	2433.4	2430.7	2425.4	2422.8	2420.1	2414.8	2410.8	2394.9
5°	2441.3	2437.4	2446.7	2454.6	2462.6	2470.5	2474.5	2479.8	2474.5	2463.9	2448.0
7.5°	2385.7	2383.0	2402.9	2426.8	2462.6	2493.1	2526.2	2544.8	2546.1	2542.1	2524.9
10°	2381.7	2375.0	2394.9	2424.1	2470.5	2524.9	2583.2	2623.0	2628.3	2645.6	2627.0
12.5°	2444.0	2437.4	2465.2	2497.0	2544.8	2601.8	2673.4	2729.1	2737.1	2760.9	2747.7
15°	2548.8	2539.5	2571.3	2612.4	2673.4	2738.4	2814.0	2864.4	2871.0	2900.2	2876.3
17.5°	2670.8	2661.5	2698.6	2742.4	2808.7	2897.5	2985.1	3040.7	3048.7	3067.3	3023.5
20°	2827.2	2815.3	2844.5	2884.3	2954.5	3060.6	3165.4	3245.0	3243.6	3243.6	3172.0
22.5°	3008.9	2990.4	3015.6	3047.4	3113.7	3242.3	3381.6	3475.7	3475.7	3438.6	3320.6
25°	3203.9	3185.3	3213.1	3242.3	3300.7	3446.5	3609.6	3726.3	3731.6	3668.0	3479.7
27.5°	3447.9	3424.0	3445.2	3479.7	3514.2	3662.7	3856.3	3991.6	3994.2	3896.1	3630.9
30°	3917.3	3849.7	3783.4	3746.2	3762.1	3909.3	4116.2	4266.1	4279.3	4144.1	3795.3
32.5°	4776.6	4763.3	4530.0	4225.0	4065.8	4174.6	4406.6	4587.0	4594.9	4421.2	4008.8
35°	6112.0	6096.1	5720.8	5140.0	4621.5	4530.0	4759.4	4972.9	4967.6	4771.3	4286.0
37.5°	7706.0	7691.4	7196.7	6419.6	5580.2	5067.0	5214.2	5438.3	5471.5	5214.2	4644.0
40°	9067.9	9013.5	8700.5	7951.3	6853.3	5958.2	5861.4	6009.9	6044.4	5739.4	5098.9
42.5°	10099.6	10053.2	9894.0	9425.9	8394.2	7276.3	6623.9	6680.9	6719.3	6353.3	5621.3
45°	10634.0	10623.4	10687.0	10643.3	9964.3	8894.1	7713.9	7476.5	7491.1	7033.6	6214.1
47.5°	10709.6	10704.3	10994.7	11405.8	11314.3	10718.9	9113.0	8468.5	8416.8	7801.4	6858.6
50°	10264.0	10253.4	10810.4	11580.8	12216.0	12251.8	10701.6	9586.4	9472.3	8595.8	7530.9
52.5°	8841.1	8838.5	9753.5	11035.8	12533.0	13593.8	12271.7	10814.3	10623.4	9436.5	8241.7
55°	6802.9	6852.0	7900.9	9416.6	11954.8	14239.7	13681.4	12177.6	11884.5	10282.6	8896.8
57.5°	4819.0	4890.7	5927.7	7277.6	10161.9	13857.7	14634.8	13543.5	13227.8	11126.0	9561.2
60°	2588.5	2652.2	3690.5	5301.7	7560.1	12433.5	15137.4	14729.0	14430.6	11926.9	10160.6
62.5°	1542.3	1563.5	1993.1	3422.7	5113.4	9498.9	14923.9	15632.1	15386.7	12599.3	10681.7
65°	1107.3	1111.3	1327.4	2089.9	3104.4	5771.2	13426.8	16064.4	15988.8	13105.8	11067.6
67.5°	932.2	929.6	1019.8	1388.4	2115.1	2890.9	10290.5	15453.0	15774.0	13426.8	11286.4
70°	799.6	803.6	909.7	1017.1	1590.0	1636.4	5116.1	13454.6	14138.9	13511.6	11273.2
72.5°	595.4	608.7	706.8	926.9	1200.1	1125.9	1766.4	9976.2	11213.5	12730.6	10688.4
75°	420.4	427.0	497.3	779.7	895.1	819.5	901.7	5157.2	6743.2	9760.1	8748.3
77.5°	323.6	335.5	376.6	545.0	881.9	575.5	551.7	1784.9	2742.4	5895.8	5997.9
80°	175.0	196.3	271.9	393.9	619.3	407.1	273.2	710.8	929.6	2757.0	2312.7
82.5°	90.2	100.8	189.6	283.8	352.7	355.4	135.3	295.7	383.2	851.4	316.9
85°	35.8	43.8	127.3	156.5	181.7	175.0	61.0	119.3	137.9	236.0	96.8
87.5°	8.0	13.3	46.4	35.8	34.5	37.1	14.6	27.8	26.5	27.8	17.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P948772

CATALOG NUMBER: GALN-SB3D-722-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2379.0	2379.0	2379.0	2379.0	2379.0	2379.0	2379.0	2379.0	2379.0	2379.0	2379.0
2.5°	2393.6	2388.3	2373.7	2357.8	2339.2	2328.6	2322.0	2320.7	2311.4	2304.8	2311.4
5°	2433.4	2428.1	2400.2	2367.1	2331.3	2303.4	2276.9	2253.0	2218.6	2211.9	2209.3
7.5°	2513.0	2498.4	2453.3	2408.2	2340.6	2259.7	2161.5	2048.8	1948.0	1917.5	1903.0
10°	2611.1	2591.2	2534.2	2454.6	2304.8	2084.6	1847.3	1627.1	1452.1	1403.0	1384.4
12.5°	2722.5	2705.2	2629.7	2482.5	2154.9	1755.8	1392.4	1119.2	949.5	907.1	895.1
15°	2855.1	2829.9	2725.1	2440.0	1887.0	1334.1	956.1	794.3	733.3	725.4	717.4
17.5°	2995.7	2954.5	2810.0	2287.5	1526.3	948.2	738.6	692.2	665.7	657.7	653.8
20°	3124.3	3071.2	2860.4	2056.8	1140.4	738.6	661.7	631.2	607.4	598.1	592.8
22.5°	3252.9	3177.3	2860.4	1742.5	855.3	655.1	607.4	579.5	551.7	539.7	533.1
25°	3386.9	3286.1	2810.0	1392.4	688.2	600.7	555.6	525.1	501.3	486.7	481.4
27.5°	3516.8	3377.6	2694.6	1060.9	612.7	553.0	507.9	478.7	456.2	445.6	445.6
30°	3640.1	3467.8	2532.9	804.9	563.6	506.6	464.1	438.9	416.4	405.8	407.1
32.5°	3807.2	3581.8	2360.5	660.4	521.2	462.8	424.4	400.5	380.6	372.6	372.6
35°	4039.3	3750.2	2211.9	648.5	485.4	427.0	388.5	366.0	346.1	339.5	339.5
37.5°	4368.2	4022.1	2133.7	728.0	456.2	395.2	359.4	335.5	316.9	311.6	310.3
40°	4774.0	4390.7	2176.1	807.6	436.3	367.3	332.9	309.0	293.1	286.4	285.1
42.5°	5255.3	4845.6	2410.8	868.6	423.0	343.5	307.7	281.1	270.5	267.9	267.9
45°	5808.3	5345.5	2770.2	933.6	401.8	320.9	282.5	262.6	254.6	253.3	252.0
47.5°	6436.9	5894.5	3186.6	1014.5	380.6	299.7	262.6	249.3	242.7	240.0	240.0
50°	7060.2	6447.5	3614.9	1059.6	363.4	279.8	246.7	236.0	230.7	229.4	229.4
52.5°	7712.6	7016.4	3961.1	1017.1	348.8	263.9	233.4	225.4	220.1	218.8	218.8
55°	8334.5	7476.5	4020.7	863.3	319.6	248.0	218.8	214.8	208.2	208.2	206.9
57.5°	8870.3	7707.3	3599.0	633.9	290.4	224.1	204.2	200.2	194.9	193.6	192.3
60°	9362.3	7641.0	2778.2	427.0	258.6	200.2	185.7	183.0	177.7	171.1	169.7
62.5°	9639.4	7349.2	1900.3	278.5	226.8	175.0	164.4	163.1	151.2	137.9	135.3
65°	9744.2	6749.8	1185.5	202.9	189.6	149.8	141.9	139.2	122.0	107.4	106.1
67.5°	9652.7	5763.2	598.1	160.5	149.8	124.7	116.7	116.7	104.8	91.5	90.2
70°	9286.7	4320.4	252.0	128.6	115.4	95.5	95.5	100.8	88.8	74.3	72.9
72.5°	8492.3	2906.8	133.9	98.1	86.2	67.6	78.2	82.2	70.3	55.7	55.7
75°	6751.2	1773.0	92.8	72.9	54.4	47.7	59.7	62.3	47.7	37.1	35.8
77.5°	4617.5	1018.4	62.3	46.4	34.5	27.8	41.1	38.5	25.2	17.2	18.6
80°	2027.6	424.4	35.8	21.2	13.3	10.6	14.6	10.6	8.0	5.3	5.3
82.5°	237.4	99.5	13.3	8.0	5.3	2.7	1.3	0.0	0.0	0.0	0.0
85°	49.1	11.9	6.6	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	2.7	1.3	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)