

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: P527863

Luminaire Tested: **GALN-SA2D-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9222 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 125
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

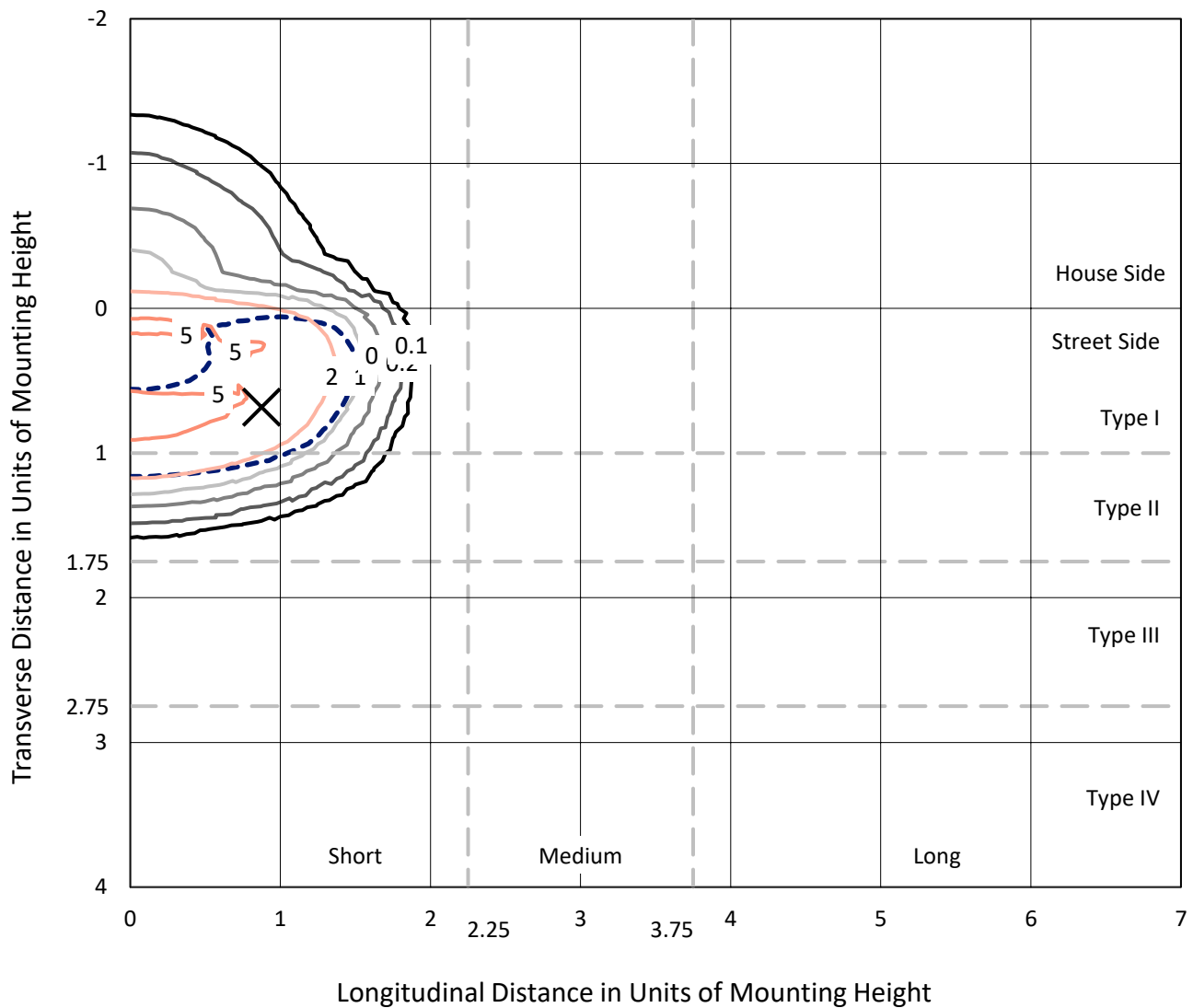


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

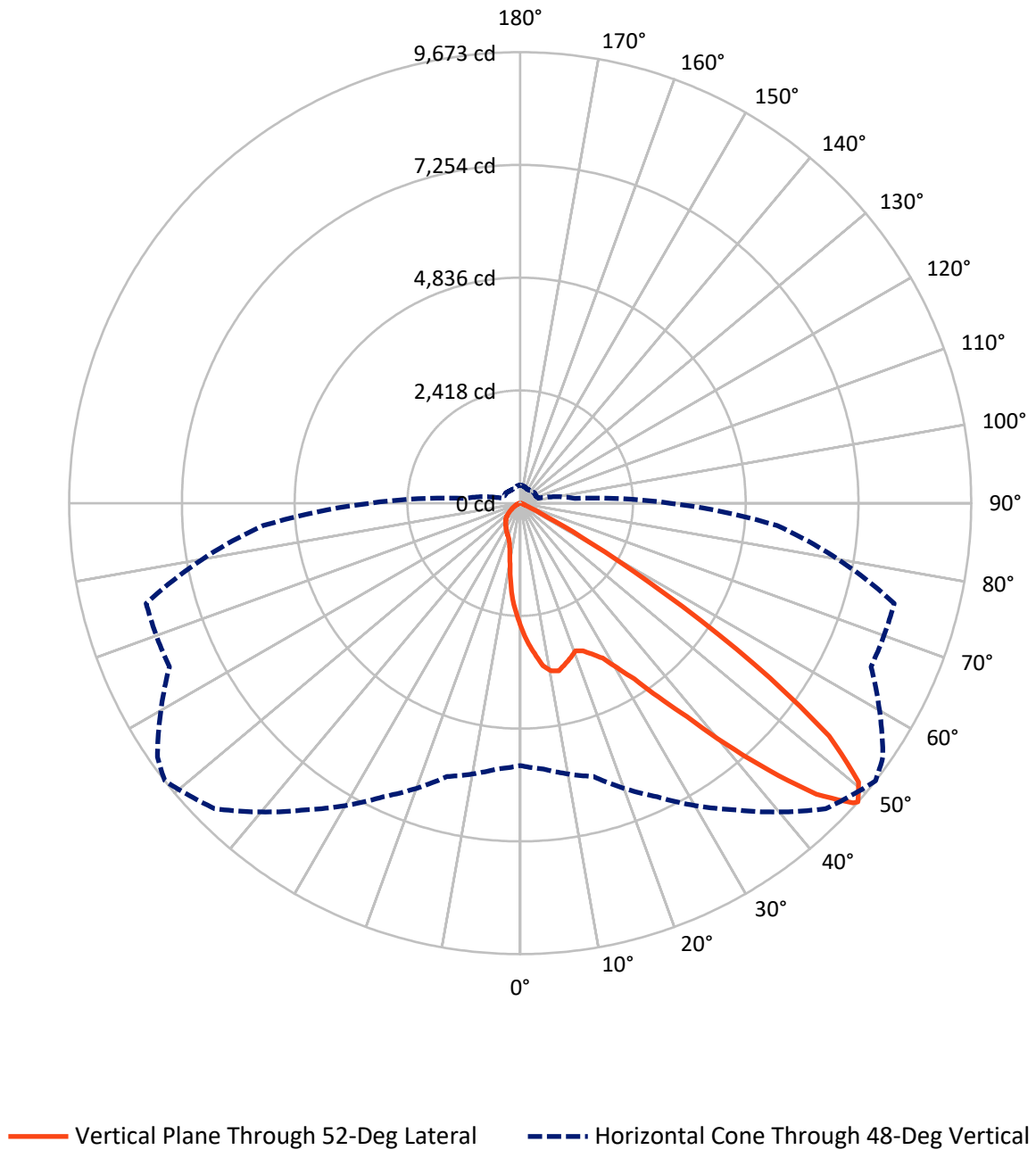


Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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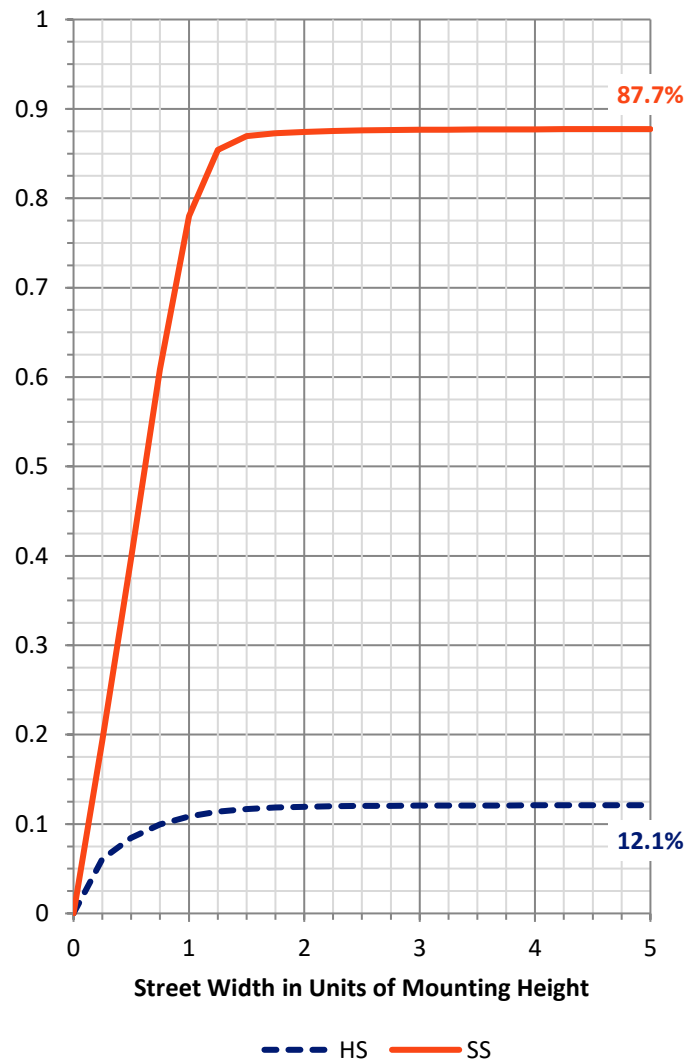
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1122.9	0.0	1122.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	8099.1	0.0	8099.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	9222.0	0.0	9222.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.8	2.6
10°-20°	637.0	6.9
20°-30°	1087.7	11.8
30°-40°	2002.9	21.7
40°-50°	3110.5	33.7
50°-60°	1872.0	20.3
60°-70°	216.5	2.3
70°-80°	41.9	0.5
80°-90°	9.7	0.1
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°	9222.0	100.0
0°-180°	9222.0	100.0

Coefficient of Utilization



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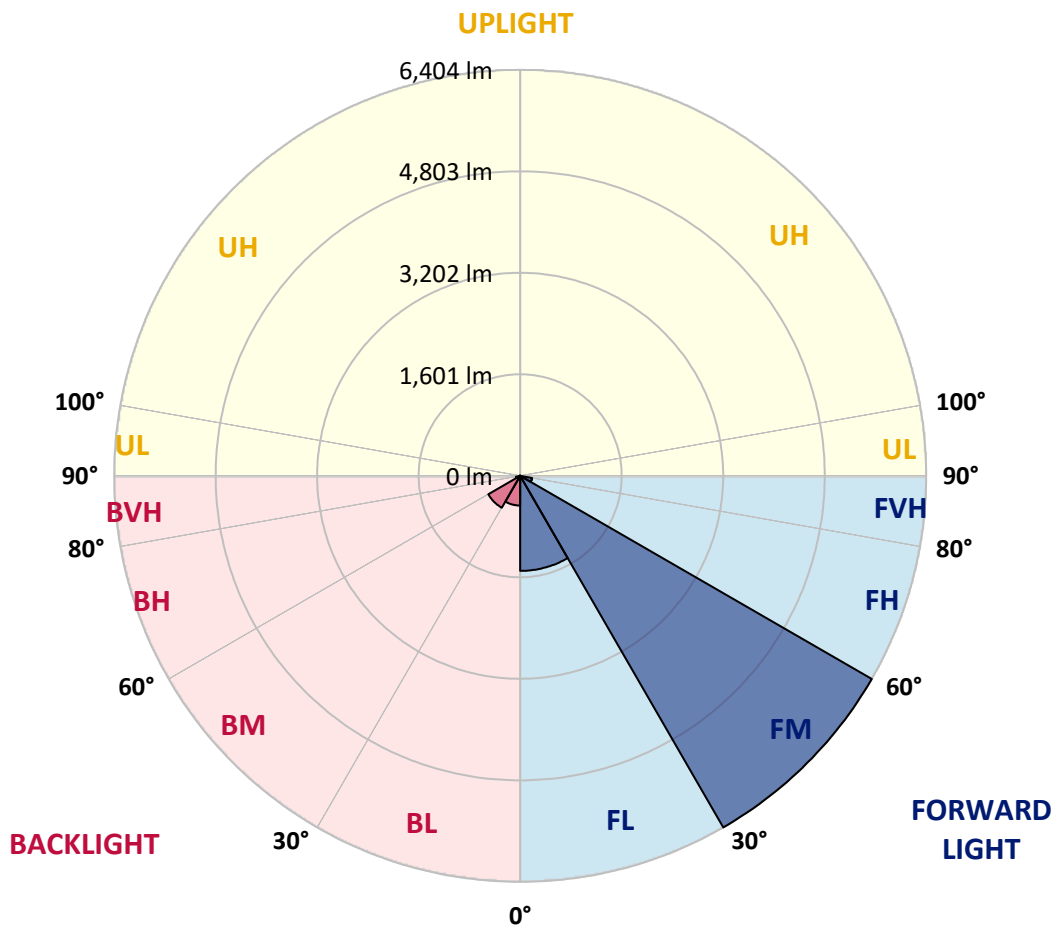
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1499.4	16.3			
FM	(30°-60°)	6404.5	69.4			
FH	(60°-80°)	190.7	2.1			G0/660
FVH	(80°-90°)	4.6	0.0			G0/10
BL	(0°-30°)	469.1	5.1	B1/500		
BM	(30°-60°)	581.0	6.3	B1/1000		
BH	(60°-80°)	67.8	0.7	B0/110		G0/110
BVH	(80°-90°)	5.1	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-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2
2.5°	3227.8	3153.8	3160.6	3112.2	3083.9	3038.2	2976.4	2964.3	2897.1	2805.7	2712.9
5°	3518.2	3500.7	3523.5	3453.6	3456.3	3381.0	3235.9	3238.5	3083.9	2934.7	2790.9
7.5°	3537.0	3496.7	3519.5	3581.4	3617.7	3604.2	3522.2	3451.0	3304.4	3085.3	2875.6
10°	3167.3	3243.9	3268.1	3370.3	3515.5	3668.7	3659.3	3663.4	3541.0	3254.7	2948.2
12.5°	2945.5	2894.4	2976.4	3038.2	3257.4	3554.5	3690.2	3719.8	3729.2	3418.7	3020.8
15°	2844.6	2844.6	2858.1	2875.6	3034.2	3308.4	3585.4	3671.4	3874.4	3633.8	3135.0
17.5°	2907.8	2905.1	2924.0	2887.7	2946.8	3157.9	3488.6	3586.7	4037.1	3844.8	3225.1
20°	3100.1	3109.5	3097.4	2992.5	2996.6	3155.2	3381.0	3535.6	4147.3	4027.7	3344.7
22.5°	3367.6	3373.0	3304.4	3190.1	3156.5	3234.5	3442.9	3561.2	4236.1	4246.8	3381.0
25°	3676.8	3655.3	3641.8	3480.5	3378.4	3445.6	3582.7	3651.3	4291.2	4435.0	3484.6
27.5°	4105.6	4062.6	3980.6	3836.8	3761.5	3666.0	3764.2	3877.1	4448.5	4698.5	3597.5
30°	4738.8	4701.2	4541.2	4355.7	4158.1	4064.0	4094.9	4156.7	4732.1	5003.7	3746.7
32.5°	5692.0	5612.7	5381.4	5027.9	4759.0	4499.5	4491.5	4557.4	4986.2	5425.8	3924.2
35°	6741.9	6717.7	6377.6	6013.3	5493.0	5092.4	5099.1	5134.1	5472.9	5979.7	4156.7
37.5°	7439.6	7572.7	7356.3	6965.1	6528.2	5955.5	5810.3	5822.4	6141.0	6635.7	4576.2
40°	7978.7	7865.8	7891.3	7799.9	7501.5	7111.6	6790.3	6727.1	6914.0	7361.7	4992.9
42.5°	7743.5	7748.8	7906.1	8122.6	8196.5	8168.3	7840.3	7720.6	7575.4	7955.9	5389.5
45°	7079.4	7217.8	7422.2	7994.9	8497.6	8969.5	8905.0	8706.0	8032.5	8426.4	5618.0
47.5°	6020.0	6014.6	6349.4	7094.1	8211.3	9316.4	9609.4	9469.6	8356.5	8374.0	5571.0
48°	5628.8	5725.6	6071.1	6947.6	8029.8	9265.3	9672.6	9496.5	8301.4	8304.1	5530.7
50°	4160.8	4143.3	4573.5	5649.0	7172.1	8706.0	9406.4	9543.6	8300.0	7950.5	5248.3
52.5°	2198.0	2273.3	2586.5	3551.8	5070.9	7125.1	8297.3	8511.1	8007.0	7372.4	4842.4
55°	934.3	844.3	1084.9	1603.8	2852.7	4760.3	6087.2	6563.1	6770.2	6524.1	4236.1
57.5°	333.4	364.3	419.4	603.6	1199.2	2605.4	3629.7	3999.4	4690.4	4787.2	2886.3
60°	213.8	217.8	235.3	276.9	450.4	1004.2	1722.1	2016.5	2329.8	2405.0	1347.0
62.5°	165.4	166.7	174.8	181.5	213.8	389.9	646.6	766.3	795.9	684.3	353.6
65°	138.5	139.8	142.5	142.5	151.9	182.8	225.9	248.7	242.0	239.3	200.3
67.5°	106.2	108.9	114.3	114.3	119.6	111.6	125.0	133.1	150.6	182.8	170.7
70°	83.3	84.7	88.7	91.4	91.4	80.7	90.1	98.1	110.2	135.8	134.4
72.5°	64.5	67.2	69.9	69.9	65.9	55.1	64.5	71.3	79.3	94.1	91.4
75°	49.7	49.7	51.1	41.7	32.3	28.2	39.0	47.1	59.2	61.8	51.1
77.5°	13.4	14.8	13.4	12.1	13.4	20.2	25.5	29.6	37.6	37.6	33.6
80°	0.0	1.3	4.0	8.1	13.4	18.8	22.9	25.5	29.6	32.3	30.9
82.5°	0.0	1.3	4.0	8.1	12.1	14.8	20.2	21.5	24.2	28.2	28.2
85°	0.0	1.3	2.7	5.4	8.1	9.4	9.4	8.1	8.1	6.7	5.4
87.5°	0.0	0.0	1.3	2.7	2.7	4.0	4.0	4.0	4.0	4.0	4.0
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°	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2	2663.2
2.5°	2676.6	2634.9	2571.7	2472.3	2376.8	2315.0	2255.8	2189.9	2153.7	2151.0	2130.8
5°	2708.9	2614.8	2464.2	2293.5	2110.6	1953.3	1794.7	1691.2	1598.4	1547.3	1537.9
7.5°	2726.3	2604.0	2360.7	2074.3	1762.4	1505.7	1328.2	1197.8	1146.7	1109.1	1107.7
10°	2762.6	2585.2	2206.1	1784.0	1398.1	1138.7	1016.3	957.2	928.9	918.2	902.1
12.5°	2789.5	2550.2	2047.4	1485.5	1105.1	943.7	890.0	876.5	877.9	883.2	876.5
15°	2827.2	2519.3	1833.7	1219.3	927.6	849.6	849.6	852.3	871.1	873.8	872.5
17.5°	2824.5	2458.8	1613.2	1004.2	820.1	809.3	813.3	838.9	851.0	855.0	845.6
20°	2856.7	2402.4	1386.0	857.7	759.6	775.7	802.6	809.3	824.1	826.8	816.0
22.5°	2847.3	2261.2	1175.0	742.1	713.9	744.8	771.7	779.7	775.7	767.6	766.3
25°	2829.9	2140.2	981.4	665.5	680.2	713.9	739.4	724.6	716.5	717.9	719.2
27.5°	2798.9	1987.0	821.4	611.7	634.5	684.3	682.9	677.6	685.6	678.9	685.6
30°	2793.6	1833.7	689.7	563.3	600.9	637.2	639.9	649.3	658.7	646.6	658.7
32.5°	2801.6	1665.7	595.5	533.7	580.8	582.1	611.7	621.1	614.4	587.5	590.2
35°	2863.5	1536.6	527.0	517.6	548.5	549.8	578.1	566.0	536.4	520.3	529.7
37.5°	2993.9	1429.0	494.7	502.8	505.5	523.0	524.3	500.1	502.8	501.4	506.8
40°	3160.6	1347.0	471.9	489.3	486.7	498.8	450.4	463.8	475.9	479.9	482.6
42.5°	3274.8	1287.9	457.1	467.8	462.5	440.9	414.1	427.5	436.9	451.7	454.4
45°	3325.9	1240.8	439.6	430.2	430.2	391.2	380.5	383.1	404.6	420.8	418.1
47.5°	3242.6	1195.1	408.7	380.5	389.9	357.6	345.5	345.5	368.4	388.5	384.5
48°	3210.3	1176.3	410.0	369.7	376.4	352.2	340.1	337.4	363.0	381.8	381.8
50°	3050.3	1106.4	375.1	340.1	326.7	324.0	315.9	318.6	334.7	352.2	352.2
52.5°	2738.4	955.8	317.3	291.7	267.5	283.7	287.7	282.3	290.4	306.5	305.2
55°	2285.4	734.0	254.1	242.0	223.2	240.6	248.7	242.0	233.9	246.0	246.0
57.5°	1464.0	395.2	203.0	205.7	186.9	204.3	211.1	194.9	180.1	189.6	188.2
60°	660.1	236.6	166.7	162.7	150.6	170.7	181.5	162.7	142.5	149.2	155.9
62.5°	247.4	168.0	126.4	123.7	121.0	139.8	145.2	130.4	110.2	114.3	115.6
65°	181.5	147.9	100.8	91.4	96.8	110.2	107.5	92.8	79.3	79.3	82.0
67.5°	154.6	129.1	82.0	71.3	71.3	72.6	67.2	59.2	55.1	57.8	60.5
70°	121.0	102.2	64.5	55.1	49.7	44.4	39.0	37.6	33.6	37.6	36.3
72.5°	78.0	68.6	49.7	41.7	37.6	30.9	25.5	24.2	20.2	18.8	18.8
75°	41.7	41.7	39.0	33.6	29.6	24.2	20.2	16.1	10.8	8.1	8.1
77.5°	29.6	32.3	35.0	32.3	26.9	20.2	16.1	10.8	5.4	2.7	2.7
80°	28.2	32.3	35.0	30.9	26.9	20.2	14.8	8.1	4.0	1.3	1.3
82.5°	25.5	29.6	32.3	28.2	24.2	17.5	13.4	8.1	4.0	1.3	1.3
85°	5.4	6.7	8.1	8.1	9.4	12.1	9.4	6.7	2.7	1.3	1.3
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	2.7	2.7	1.3	1.3	1.3
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)