

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: P528331

Luminaire Tested: **GALN-SA3B-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528331
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-SA3B-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA 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: 10069 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

Input Watts (W): 121
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

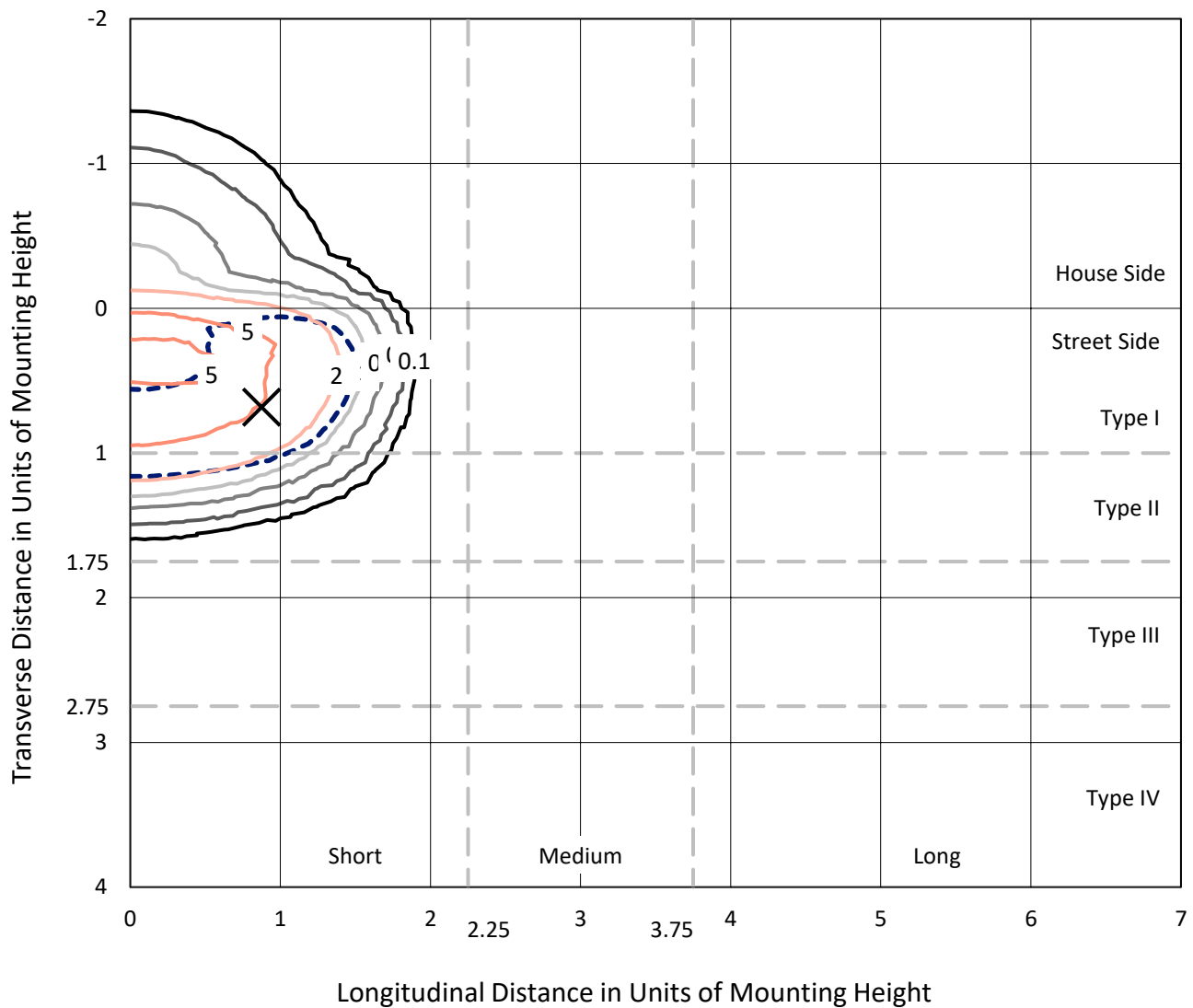


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

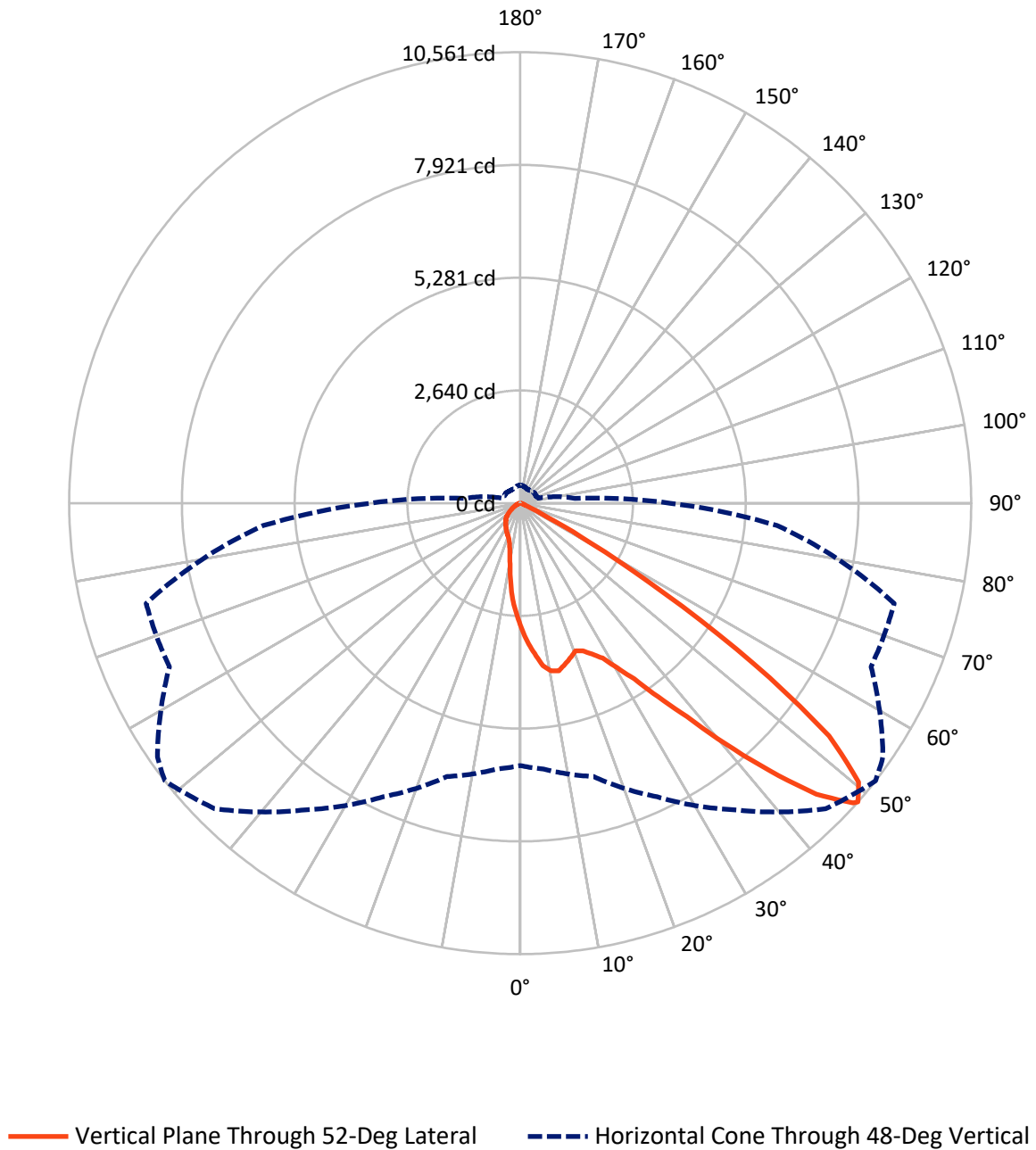


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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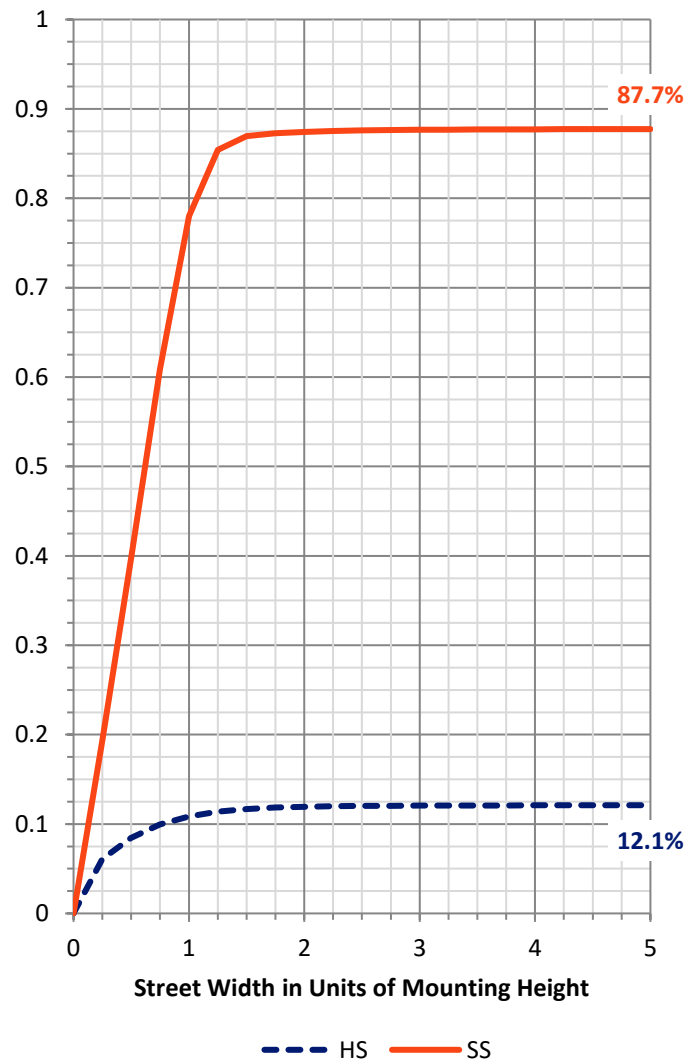
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1226.0	0.0	1226.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	8843.0	0.0	8843.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	10069.0	0.0	10069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.1	2.6
10°-20°	695.5	6.9
20°-30°	1187.6	11.8
30°-40°	2186.9	21.7
40°-50°	3396.2	33.7
50°-60°	2043.9	20.3
60°-70°	236.4	2.3
70°-80°	45.8	0.5
80°-90°	10.6	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°	10069.0	100.0
0°-180°	10069.0	100.0

Coefficient of Utilization



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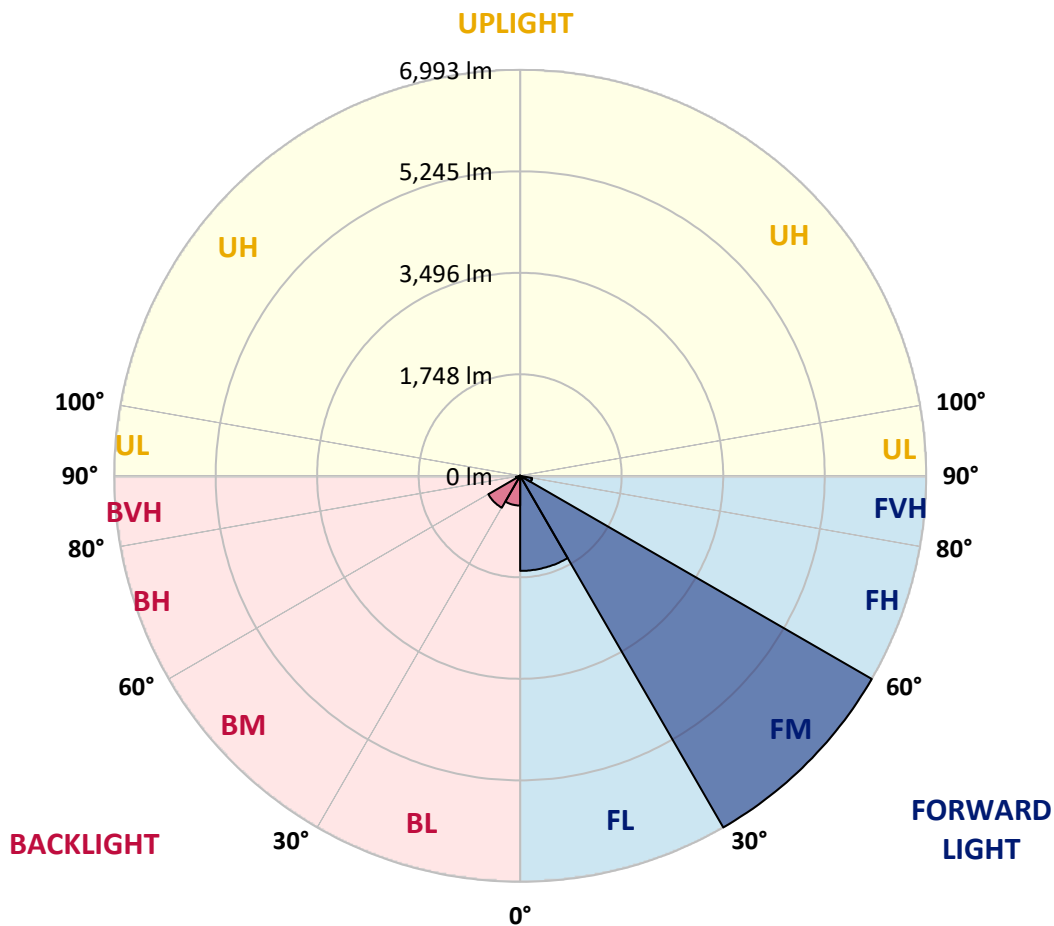
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1637.1	16.3			
FM	(30°-60°)	6992.7	69.4			
FH	(60°-80°)	208.2	2.1			G0/660
FVH	(80°-90°)	5.0	0.0			G0/10
BL	(0°-30°)	512.1	5.1	B2/1000		
BM	(30°-60°)	634.3	6.3	B1/1000		
BH	(60°-80°)	74.0	0.7	B0/110		G0/110
BVH	(80°-90°)	5.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8
2.5°	3524.2	3443.5	3450.9	3398.0	3367.2	3317.3	3249.8	3236.6	3163.2	3063.3	2962.1
5°	3841.3	3822.2	3847.2	3770.8	3773.8	3691.6	3533.1	3536.0	3367.2	3204.3	3047.2
7.5°	3861.8	3817.8	3842.8	3910.3	3949.9	3935.2	3845.7	3767.9	3607.9	3368.7	3139.7
10°	3458.2	3541.9	3568.3	3679.8	3838.4	4005.7	3995.4	3999.8	3866.2	3553.6	3218.9
12.5°	3216.0	3160.2	3249.8	3317.3	3556.5	3880.9	4029.2	4061.5	4071.7	3732.7	3298.2
15°	3105.9	3105.9	3120.6	3139.7	3312.9	3612.3	3914.7	4008.6	4230.3	3967.5	3423.0
17.5°	3174.9	3172.0	3192.5	3152.9	3217.5	3447.9	3809.0	3916.2	4407.9	4198.0	3521.3
20°	3384.8	3395.1	3381.9	3267.4	3271.8	3445.0	3691.6	3860.4	4528.2	4397.6	3651.9
22.5°	3676.9	3682.8	3607.9	3483.1	3446.5	3531.6	3759.1	3888.3	4625.1	4636.9	3691.6
25°	4014.5	3991.0	3976.3	3800.2	3688.6	3762.0	3911.8	3986.6	4685.3	4842.4	3804.6
27.5°	4482.7	4435.8	4346.2	4189.2	4107.0	4002.8	4109.9	4233.2	4857.0	5130.0	3927.9
30°	5174.1	5133.0	4958.3	4755.8	4540.0	4437.2	4471.0	4538.5	5166.7	5463.2	4090.8
32.5°	6214.8	6128.2	5875.7	5489.7	5196.1	4912.8	4904.0	4975.9	5444.2	5924.1	4284.6
35°	7361.1	7334.7	6963.4	6565.6	5997.5	5560.1	5567.5	5605.6	5975.5	6528.9	4538.5
37.5°	8122.9	8268.3	8031.9	7604.8	7127.8	6502.5	6343.9	6357.1	6705.0	7245.2	4996.5
40°	8711.5	8588.2	8616.1	8516.3	8190.5	7764.8	7414.0	7345.0	7549.0	8037.8	5451.5
42.5°	8454.7	8460.5	8632.3	8868.6	8949.3	8918.5	8560.4	8429.7	8271.2	8686.6	5884.5
45°	7729.6	7880.7	8103.9	8729.2	9278.1	9793.3	9722.9	9505.6	8770.3	9200.3	6134.0
47.5°	6572.9	6567.0	6932.5	7745.7	8965.5	10172.0	10492.0	10339.4	9124.0	9143.1	6082.7
48°	6145.8	6251.5	6628.7	7585.7	8767.3	10116.2	10561.0	10368.7	9063.8	9066.8	6038.6
50°	4542.9	4523.8	4993.5	6167.8	7830.8	9505.6	10270.4	10420.1	9062.3	8680.7	5730.4
52.5°	2399.9	2482.1	2824.1	3878.0	5536.6	7779.5	9059.4	9292.8	8742.4	8049.5	5287.1
55°	1020.1	921.8	1184.5	1751.1	3114.7	5197.6	6646.3	7165.9	7392.0	7123.4	4625.1
57.5°	364.0	397.8	458.0	659.1	1309.3	2844.6	3963.1	4366.8	5121.2	5226.9	3151.4
60°	233.4	237.8	256.9	302.4	491.7	1096.5	1880.3	2201.7	2543.7	2625.9	1470.8
62.5°	180.5	182.0	190.8	198.2	233.4	425.7	706.0	836.7	869.0	747.1	386.0
65°	151.2	152.7	155.6	155.6	165.9	199.6	246.6	271.5	264.2	261.3	218.7
67.5°	116.0	118.9	124.8	124.8	130.6	121.8	136.5	145.3	164.4	199.6	186.4
70°	91.0	92.5	96.9	99.8	99.8	88.1	98.3	107.2	120.4	148.3	146.8
72.5°	70.5	73.4	76.3	76.3	71.9	60.2	70.5	77.8	86.6	102.7	99.8
75°	54.3	54.3	55.8	45.5	35.2	30.8	42.6	51.4	64.6	67.5	55.8
77.5°	14.7	16.1	14.7	13.2	14.7	22.0	27.9	32.3	41.1	41.1	36.7
80°	0.0	1.5	4.4	8.8	14.7	20.5	25.0	27.9	32.3	35.2	33.8
82.5°	0.0	1.5	4.4	8.8	13.2	16.1	22.0	23.5	26.4	30.8	30.8
85°	0.0	1.5	2.9	5.9	8.8	10.3	10.3	8.8	8.8	7.3	5.9
87.5°	0.0	0.0	1.5	2.9	2.9	4.4	4.4	4.4	4.4	4.4	4.4
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°	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8	2907.8
2.5°	2922.4	2876.9	2807.9	2699.3	2595.1	2527.6	2463.0	2391.1	2351.5	2348.5	2326.5
5°	2957.7	2854.9	2690.5	2504.1	2304.5	2132.7	1959.5	1846.5	1745.2	1689.5	1679.2
7.5°	2976.7	2843.2	2577.5	2264.9	1924.3	1644.0	1450.2	1307.8	1252.1	1211.0	1209.5
10°	3016.4	2822.6	2408.7	1947.8	1526.5	1243.2	1109.7	1045.1	1014.3	1002.5	984.9
12.5°	3045.7	2784.5	2235.5	1621.9	1206.6	1030.4	971.7	957.0	958.5	964.4	957.0
15°	3086.8	2750.7	2002.1	1331.3	1012.8	927.7	927.7	930.6	951.2	954.1	952.6
17.5°	3083.9	2684.7	1761.4	1096.5	895.4	883.6	888.0	915.9	929.1	933.5	923.3
20°	3119.1	2623.0	1513.3	936.5	829.3	846.9	876.3	883.6	899.8	902.7	891.0
22.5°	3108.9	2468.9	1282.9	810.2	779.4	813.2	842.5	851.3	846.9	838.1	836.7
25°	3089.8	2336.8	1071.5	726.6	742.7	779.4	807.3	791.2	782.4	783.8	785.3
27.5°	3056.0	2169.4	896.8	667.9	692.8	747.1	745.7	739.8	748.6	741.3	748.6
30°	3050.1	2002.1	753.0	615.0	656.1	695.7	698.7	709.0	719.2	706.0	719.2
32.5°	3058.9	1818.6	650.2	582.7	634.1	635.6	667.9	678.1	670.8	641.4	644.4
35°	3126.5	1677.7	575.4	565.1	598.9	600.3	631.2	618.0	585.7	568.0	578.3
37.5°	3268.8	1560.3	540.2	549.0	551.9	571.0	572.5	546.0	549.0	547.5	553.4
40°	3450.9	1470.8	515.2	534.3	531.4	544.6	491.7	506.4	519.6	524.0	526.9
42.5°	3575.6	1406.2	499.1	510.8	504.9	481.4	452.1	466.8	477.0	493.2	496.1
45°	3631.4	1354.8	480.0	469.7	469.7	427.1	415.4	418.3	441.8	459.4	456.5
47.5°	3540.4	1304.9	446.2	415.4	425.7	390.4	377.2	377.2	402.2	424.2	419.8
48°	3505.2	1284.3	447.7	403.7	411.0	384.6	371.4	368.4	396.3	416.9	416.9
50°	3330.5	1208.0	409.5	371.4	356.7	353.7	344.9	347.9	365.5	384.6	384.6
52.5°	2990.0	1043.6	346.4	318.5	292.1	309.7	314.1	308.2	317.1	334.7	333.2
55°	2495.3	801.4	277.4	264.2	243.7	262.7	271.5	264.2	255.4	268.6	268.6
57.5°	1598.5	431.5	221.6	224.6	204.0	223.1	230.4	212.8	196.7	207.0	205.5
60°	720.7	258.3	182.0	177.6	164.4	186.4	198.2	177.6	155.6	162.9	170.3
62.5°	270.1	183.5	138.0	135.0	132.1	152.7	158.5	142.4	120.4	124.8	126.2
65°	198.2	161.5	110.1	99.8	105.7	120.4	117.4	101.3	86.6	86.6	89.5
67.5°	168.8	140.9	89.5	77.8	77.8	79.3	73.4	64.6	60.2	63.1	66.1
70°	132.1	111.6	70.5	60.2	54.3	48.4	42.6	41.1	36.7	41.1	39.6
72.5°	85.1	74.9	54.3	45.5	41.1	33.8	27.9	26.4	22.0	20.5	20.5
75°	45.5	45.5	42.6	36.7	32.3	26.4	22.0	17.6	11.7	8.8	8.8
77.5°	32.3	35.2	38.2	35.2	29.4	22.0	17.6	11.7	5.9	2.9	2.9
80°	30.8	35.2	38.2	33.8	29.4	22.0	16.1	8.8	4.4	1.5	1.5
82.5°	27.9	32.3	35.2	30.8	26.4	19.1	14.7	8.8	4.4	1.5	1.5
85°	5.9	7.3	8.8	8.8	10.3	13.2	10.3	7.3	2.9	1.5	1.5
87.5°	4.4	4.4	4.4	4.4	4.4	4.4	2.9	2.9	1.5	1.5	1.5
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)