

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: P532524

Luminaire Tested: **GALN-SA7D-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33510 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

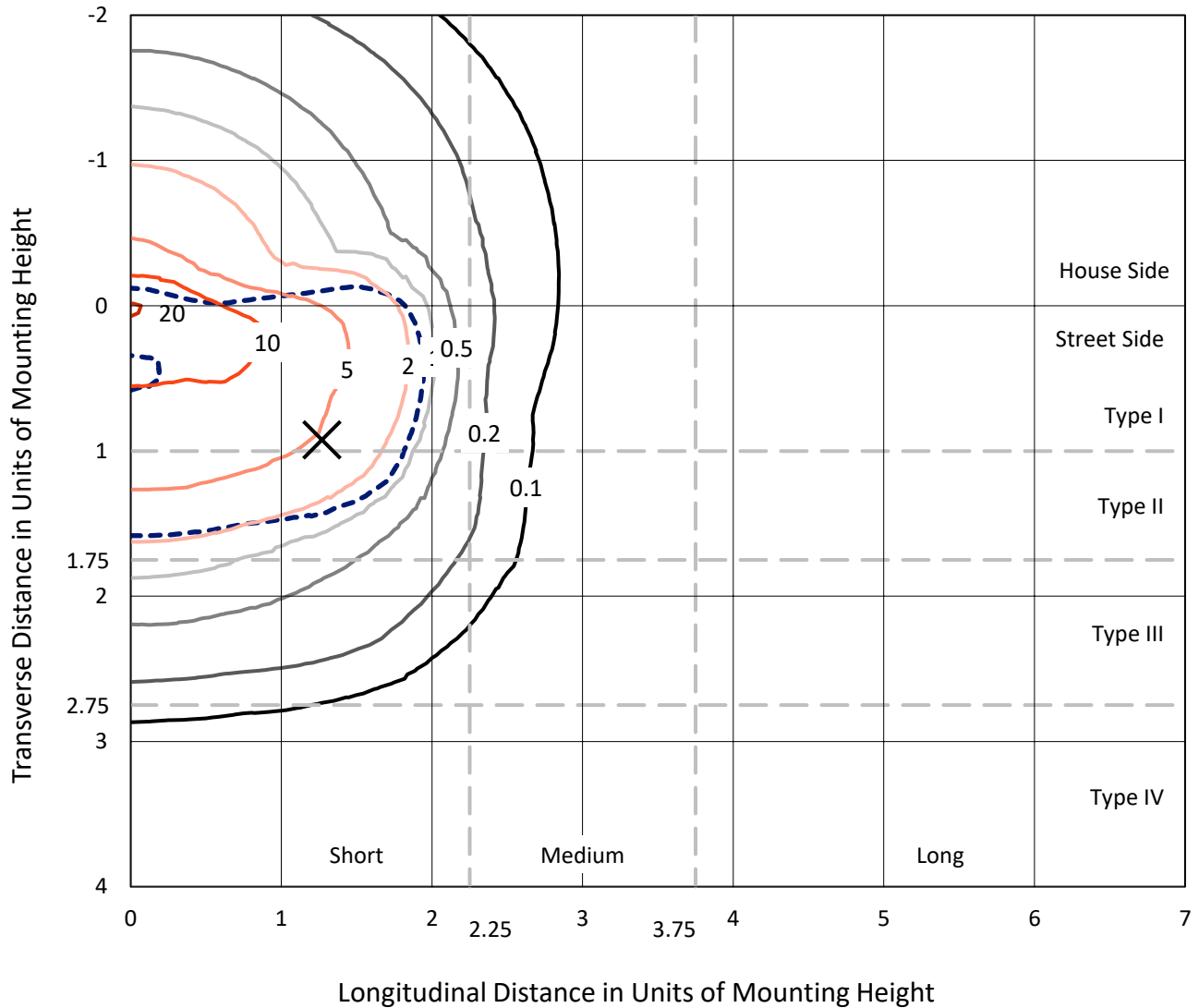
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532524
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Iso-Footcandle Lines of Horizontal Illumination

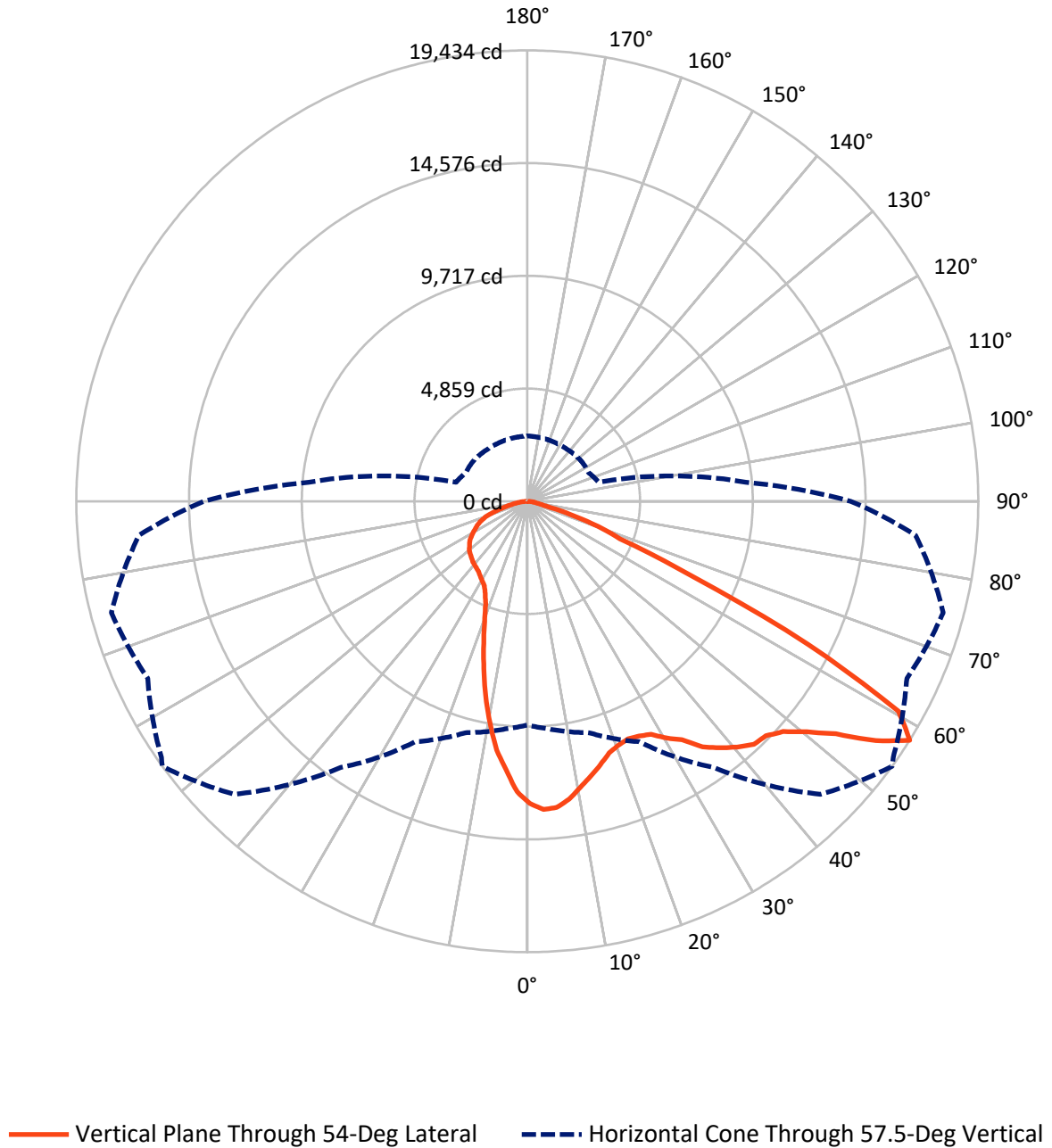
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA7D-827-U-SL3-GRSWH

Luminous Intensity Polar Plot



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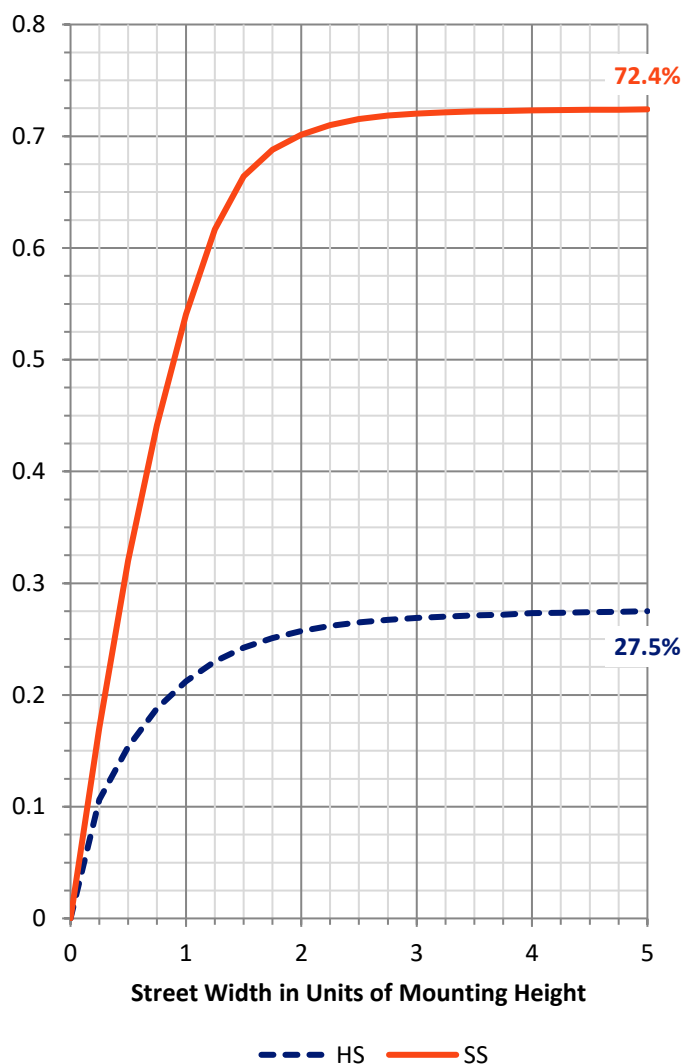
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9270.7	0.0	9270.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	24239.3	0.0	24239.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	33510.0	0.0	33510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1123.3	3.4
10°-20°	2600.8	7.8
20°-30°	3654.1	10.9
30°-40°	5108.5	15.2
40°-50°	6916.0	20.6
50°-60°	8424.0	25.1
60°-70°	4387.6	13.1
70°-80°	1124.3	3.4
80°-90°	171.5	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°	33510.0	100.0
0°-180°	33510.0	100.0

Coefficient of Utilization

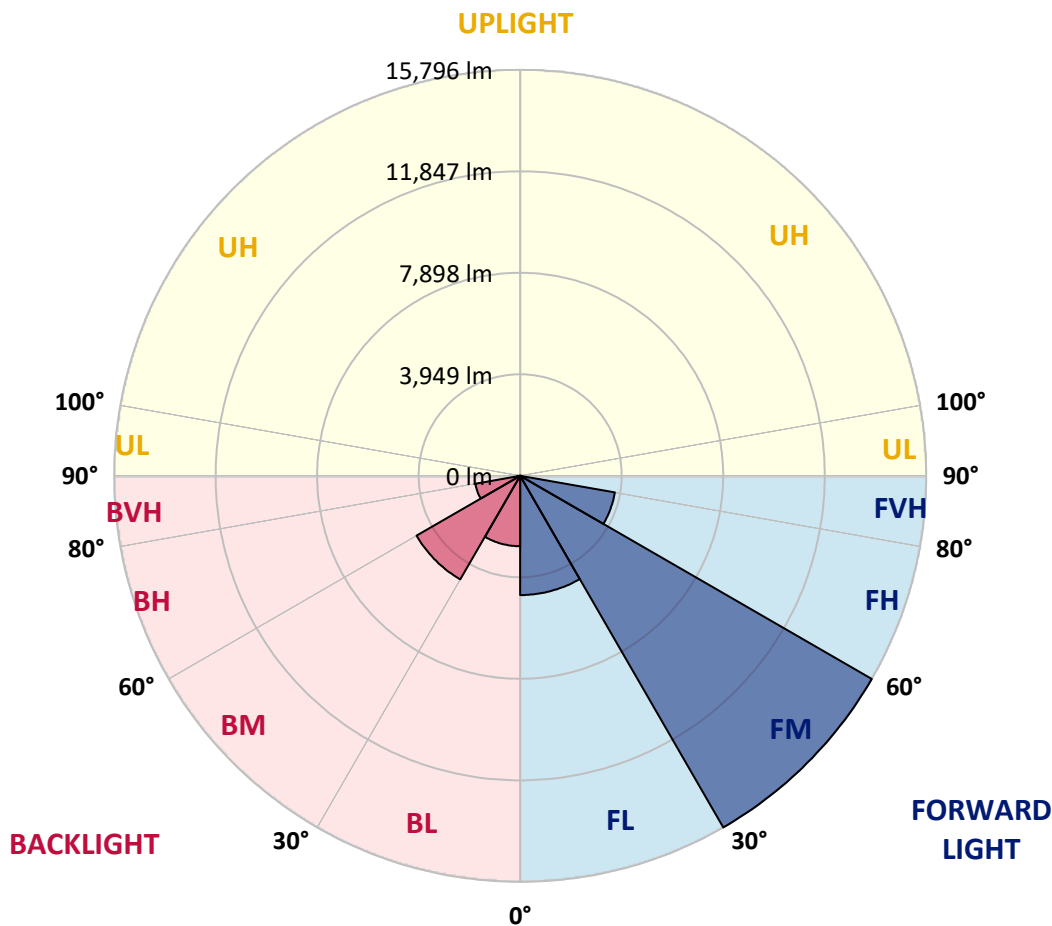


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4638.2	13.8			
FM (30°-60°)	15795.6	47.1			
FH (60°-80°)	3740.7	11.2			G2/5000
FVH (80°-90°)	64.8	0.2			G1/100
BL (0°-30°)	2740.0	8.2	B4/5000		
BM (30°-60°)	4652.9	13.9	B3/5000		
BH (60°-80°)	1771.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	106.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13025.0	13025.0	13025.0	13025.0	13025.0	13025.0	13025.0	13025.0	13025.0	13025.0	13025.0
2.5°	13395.4	13343.7	13352.3	13421.2	13335.1	13300.6	13300.6	13132.6	13145.6	13029.3	12999.1
5°	13085.3	12964.7	13046.5	13149.9	13167.1	13201.5	13257.5	13214.5	13093.9	12969.0	12766.5
7.5°	12275.5	12383.2	12413.3	12486.6	12641.6	12783.8	12960.3	12839.7	12835.4	12710.5	12589.9
10°	11564.8	11500.2	11663.9	11771.6	12030.0	12266.9	12538.2	12525.3	12589.9	12447.8	12241.0
12.5°	10858.4	10806.7	10884.3	11129.8	11491.6	11836.2	12159.2	12038.6	12383.2	12357.3	11913.7
15°	10109.0	10147.7	10259.7	10488.0	10961.8	11375.3	11784.5	11788.8	12094.6	12198.0	11603.6
17.5°	9583.5	9540.4	9682.6	10022.8	10444.9	10940.3	11405.4	11500.2	11969.7	12030.0	11508.8
20°	9191.6	9251.9	9437.1	9609.3	10096.1	10694.8	11220.2	11254.7	11943.8	12107.5	11358.1
22.5°	9096.8	9062.3	9122.6	9402.6	9803.2	10453.6	11121.2	11250.4	11939.5	12081.7	11073.8
25°	8997.7	9109.7	9105.4	9385.4	9678.3	10259.7	11203.0	11345.1	12167.8	12215.2	11112.6
27.5°	9221.7	9208.8	9329.4	9350.9	9712.7	10311.4	11375.3	11483.0	12546.9	12508.1	11142.7
30°	9445.7	9381.1	9454.3	9708.4	9876.4	10608.6	11849.1	11840.5	13037.9	13012.0	11237.5
32.5°	9721.3	9691.2	9738.6	9962.5	10246.8	11004.9	12249.7	12503.8	13537.5	13701.2	11564.8
35°	9773.0	9897.9	10009.9	10311.4	10716.3	11646.7	13003.4	13214.5	14114.7	14627.2	12189.4
37.5°	10100.4	10147.7	10410.5	10944.6	11315.0	12503.8	13481.5	13615.0	14640.2	15221.6	12848.4
40°	10449.3	10505.2	10901.5	11461.4	11969.7	13063.7	13929.5	13972.5	14808.1	15678.2	13279.1
42.5°	10923.0	10974.7	11366.7	12068.8	12749.3	13541.8	14325.7	14373.1	14795.2	16203.7	13963.9
45°	11414.1	11539.0	11999.8	12796.7	13408.3	14101.8	14416.2	14610.0	14915.8	16673.1	14519.5
47.5°	12103.2	12219.5	12598.5	13378.1	14093.1	14592.8	14834.0	15023.5	15204.4	17082.3	14877.0
50°	12835.4	12857.0	13317.8	14024.2	14549.7	15148.4	15613.6	15678.2	15583.4	17556.1	15484.4
52.5°	13373.8	13442.8	13800.2	14489.4	15273.3	16009.8	16647.3	16716.2	16531.0	17732.7	15691.1
55°	12482.2	12443.5	13025.0	13942.4	15760.0	17293.4	18219.4	18271.1	17220.2	18279.7	16367.3
57.5°	9648.1	9833.3	10328.7	11435.6	14002.7	17861.9	19434.1	19248.8	18047.1	18555.4	16798.1
60°	7012.1	6969.0	7300.7	8041.5	10552.6	15393.9	18374.5	18564.0	17370.9	16724.8	13851.9
62.5°	5711.3	5651.0	5676.9	5702.7	6809.7	10216.7	13602.1	13597.8	13378.1	12021.4	9342.3
65°	4565.6	4707.8	4720.7	4914.5	5056.6	6103.3	7882.2	8304.3	7231.8	5931.0	4302.9
67.5°	3441.4	3389.8	3562.0	4251.2	4518.2	4406.3	4302.9	4350.3	3092.6	2231.1	2101.9
70°	2028.7	2007.2	2213.9	2963.3	3721.4	3501.7	3243.3	3247.6	2123.4	1559.2	1735.8
72.5°	1111.3	1106.9	1150.0	1503.2	2114.8	2196.7	1946.9	2007.2	1266.3	1262.0	1356.8
75°	620.2	607.3	594.4	663.3	762.4	805.4	822.7	831.3	870.1	973.4	1012.2
77.5°	228.3	219.7	219.7	254.1	323.0	404.9	512.6	521.2	615.9	706.4	745.1
80°	77.5	86.1	116.3	159.4	215.4	288.6	348.9	357.5	435.0	495.3	508.2
82.5°	47.4	51.7	77.5	112.0	155.1	202.4	258.4	262.7	323.0	361.8	379.0
85°	21.5	25.8	43.1	68.9	99.1	133.5	137.8	137.8	133.5	137.8	129.2
87.5°	0.0	0.0	8.6	8.6	8.6	12.9	17.2	12.9	21.5	25.8	25.8
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: P532524

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13025.0	13025.0	13025.0	13025.0	13025.0	13025.0	13025.0	13025.0	13025.0	13025.0	13025.0
2.5°	12908.7	12861.3	12714.8	12585.6	12546.9	12374.6	12120.4	12150.6	11965.4	12051.5	11961.1
5°	12732.1	12572.7	12198.0	12038.6	11620.8	11431.3	11302.1	10979.0	10828.3	10798.1	10668.9
7.5°	12279.8	12180.7	11711.3	11280.5	10836.9	10457.9	9971.2	9639.5	9402.6	9338.0	9148.5
10°	11922.3	11702.6	11052.3	10397.6	9764.4	9105.4	8472.2	7976.9	7735.7	7455.8	7361.0
12.5°	11569.1	11237.5	10358.8	9518.9	8700.5	7869.2	7102.6	6499.6	5974.1	5849.2	5806.1
15°	11349.5	10772.3	9738.6	8726.4	7563.4	6478.0	5711.3	5315.1	4992.0	4858.5	4953.3
17.5°	11060.9	10389.0	9144.2	7796.0	6516.8	5517.5	4875.7	4630.2	4513.9	4526.9	4488.1
20°	10699.1	10027.1	8364.6	6951.8	5582.1	4785.3	4419.2	4328.7	4346.0	4376.1	4363.2
22.5°	10440.6	9587.8	7800.3	6090.4	4824.1	4380.4	4229.7	4165.1	4221.0	4246.9	4225.4
25°	10242.5	9213.1	7115.5	5328.0	4384.7	4152.1	4083.2	4078.9	4165.1	4199.5	4178.0
27.5°	10061.6	8864.2	6434.9	4746.5	4091.8	3975.5	3954.0	4005.7	4061.7	4096.1	4126.3
30°	9953.9	8597.2	5797.5	4259.8	3945.4	3889.4	3850.6	3898.0	3928.2	3962.6	3945.4
32.5°	10057.3	8407.6	5181.6	3984.2	3824.8	3768.8	3820.5	3790.3	3842.0	3872.2	3824.8
35°	10380.3	8239.7	4742.2	3837.7	3687.0	3708.5	3717.1	3704.2	3725.7	3699.9	3755.9
37.5°	10699.1	8179.4	4337.3	3712.8	3622.3	3622.3	3613.7	3587.9	3631.0	3622.3	3648.2
40°	11103.9	8218.1	3992.8	3579.3	3562.0	3553.4	3519.0	3514.7	3497.4	3501.7	3510.4
42.5°	11457.1	8304.3	3794.6	3493.1	3506.1	3523.3	3458.7	3407.0	3428.5	3385.5	3385.5
45°	11831.9	8381.8	3618.0	3432.8	3419.9	3415.6	3363.9	3333.8	3316.5	3320.8	3359.6
47.5°	12421.9	8493.8	3484.5	3351.0	3359.6	3295.0	3282.1	3243.3	3260.5	3286.4	3290.7
50°	12839.7	8730.7	3381.1	3256.2	3286.4	3243.3	3165.8	3148.6	3148.6	3191.6	3183.0
52.5°	13132.6	9062.3	3282.1	3152.9	3165.8	3131.3	3105.5	3066.7	3040.9	3101.2	3131.3
55°	14028.5	9613.7	3256.2	3066.7	3062.4	3028.0	2980.6	2941.8	2928.9	2937.5	2997.8
57.5°	13942.4	9441.4	3174.4	2916.0	2907.4	2860.0	2812.6	2799.7	2795.4	2804.0	2821.2
60°	11319.3	6973.3	2834.1	2743.7	2730.8	2722.1	2674.8	2623.1	2597.2	2623.1	2601.5
62.5°	7490.2	4669.0	2498.2	2536.9	2545.6	2524.0	2446.5	2394.8	2403.4	2433.6	2386.2
65°	3678.3	2743.7	2265.6	2369.0	2377.6	2317.3	2244.0	2183.7	2153.6	2179.4	2157.9
67.5°	2101.9	2097.6	2076.1	2183.7	2179.4	2119.1	2002.8	1951.2	1899.5	1908.1	1895.2
70°	1783.2	1817.6	1860.7	1925.3	1921.0	1852.1	1714.3	1675.5	1602.3	1593.7	1572.1
72.5°	1404.1	1464.4	1559.2	1606.6	1567.8	1481.7	1391.2	1326.6	1262.0	1223.2	1236.2
75°	1042.3	1128.5	1180.2	1210.3	1150.0	1102.6	1029.4	951.9	874.4	839.9	827.0
77.5°	758.1	783.9	831.3	852.8	814.1	766.7	723.6	646.1	572.9	525.5	512.6
80°	529.8	547.0	581.5	581.5	581.5	559.9	503.9	426.4	379.0	336.0	327.3
82.5°	370.4	387.6	422.1	404.9	400.6	374.7	340.3	280.0	228.3	198.1	189.5
85°	129.2	142.1	172.3	206.7	219.7	215.4	193.8	155.1	120.6	99.1	90.5
87.5°	30.2	30.2	34.5	30.2	30.2	34.5	30.2	30.2	30.2	21.5	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

(END OF REPORT)