

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: P652624

Luminaire Tested: **GALN-SA9B-840-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36389.2 lumens
Efficiency: N/A
Efficacy: 100.0 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

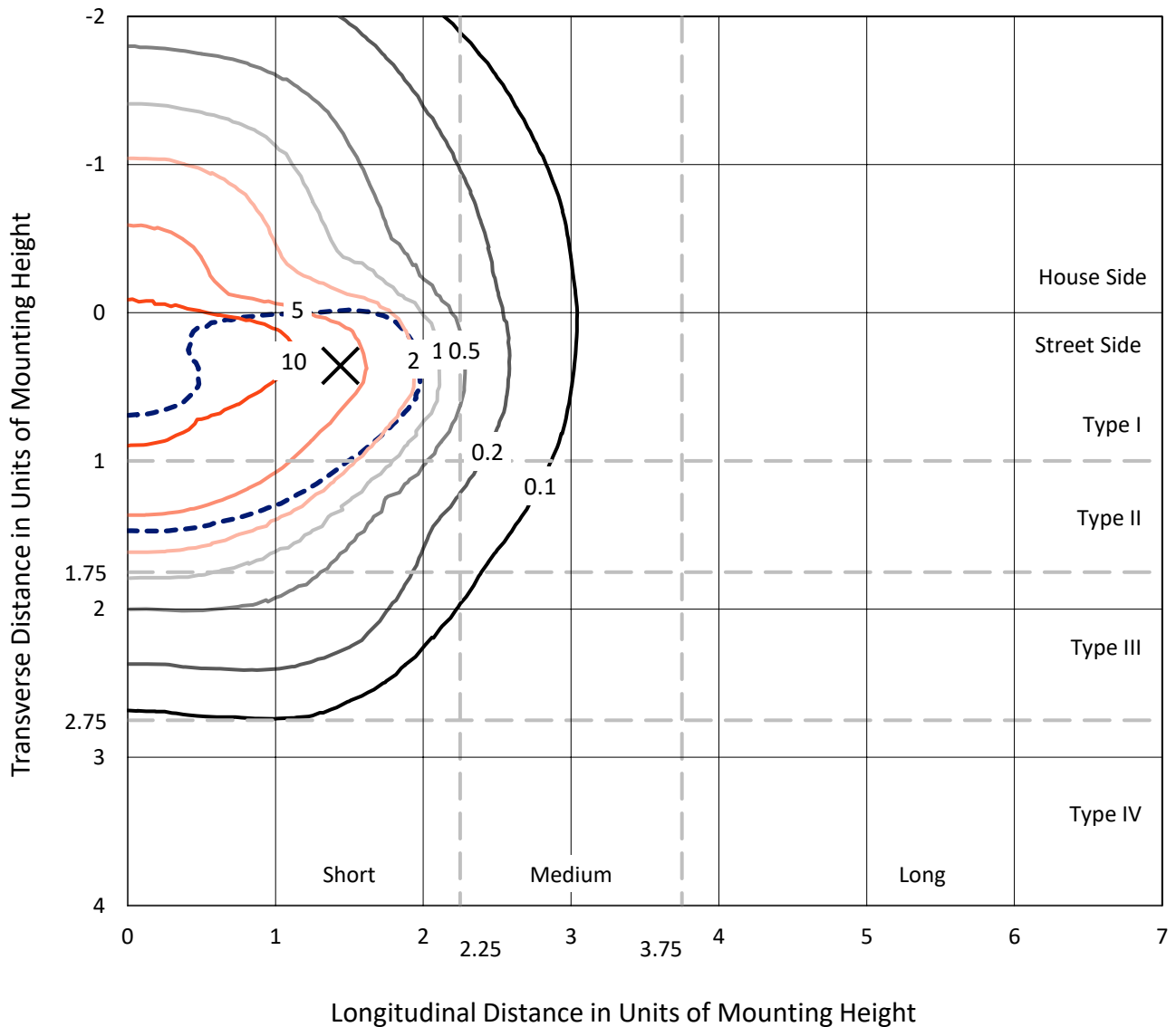
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652624
 CATALOG NUMBER: GALN-SA9B-840-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

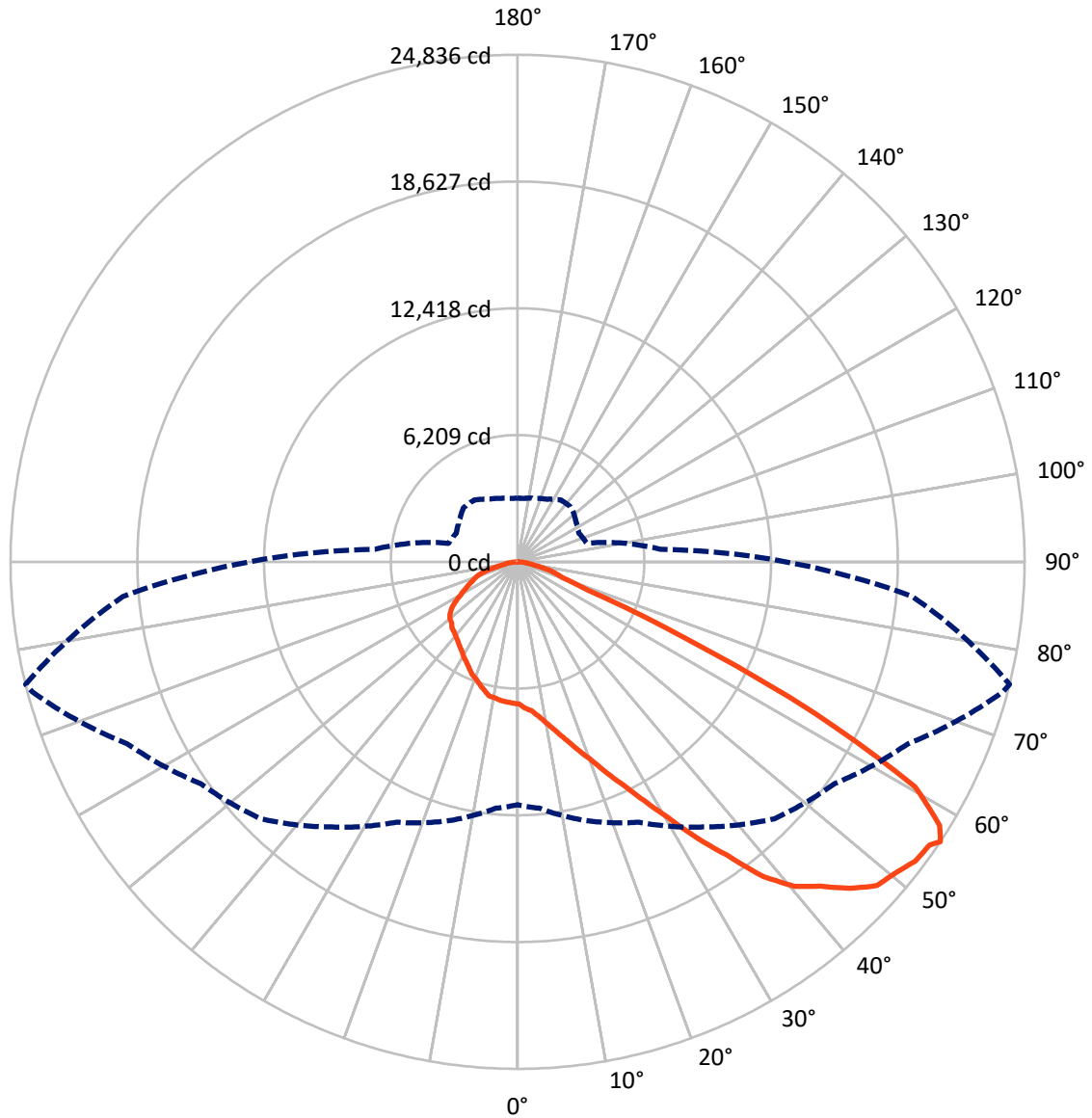
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - N/A

REPORT NUMBER: P652624
CATALOG NUMBER: GALN-SA9B-840-U-T2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P652624
 CATALOG NUMBER: GALN-SA9B-840-U-T2-GRSWH

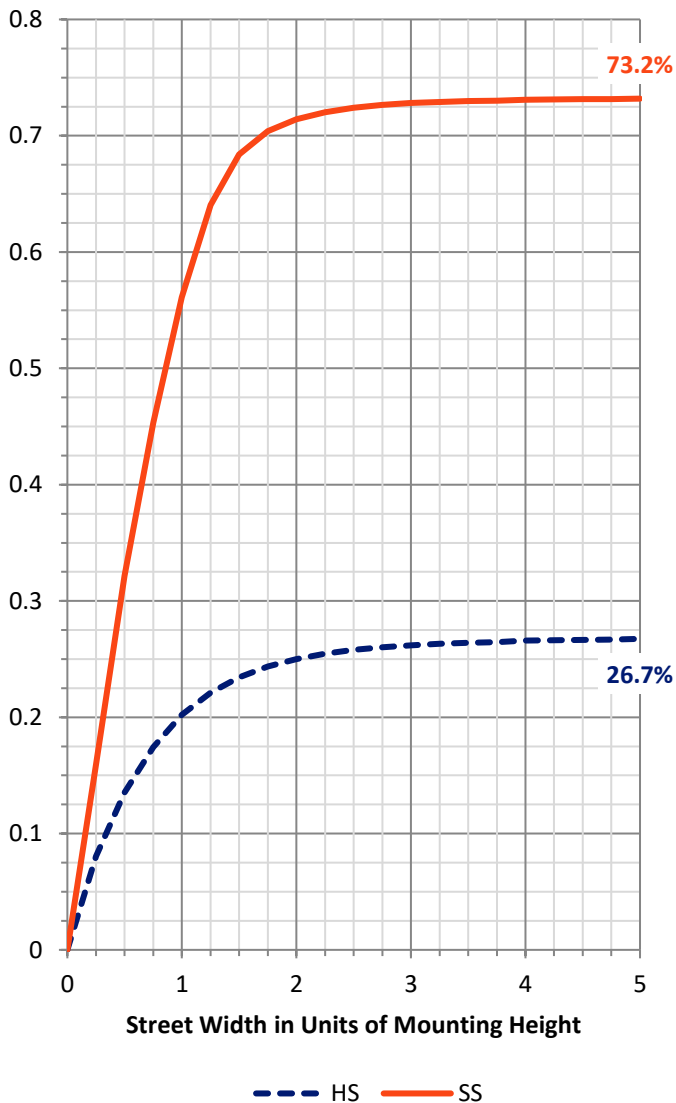
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9784.0	0.0	9784.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	26605.3	0.0	26605.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	36389.2	0.0	36389.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.5	1.9
10°-20°	2169.0	6.0
20°-30°	3793.3	10.4
30°-40°	5939.3	16.3
40°-50°	8639.9	23.7
50°-60°	9495.8	26.1
60°-70°	4238.5	11.6
70°-80°	1224.2	3.4
80°-90°	198.6	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°	36389.2	100.0
0°-180°	36389.2	100.0

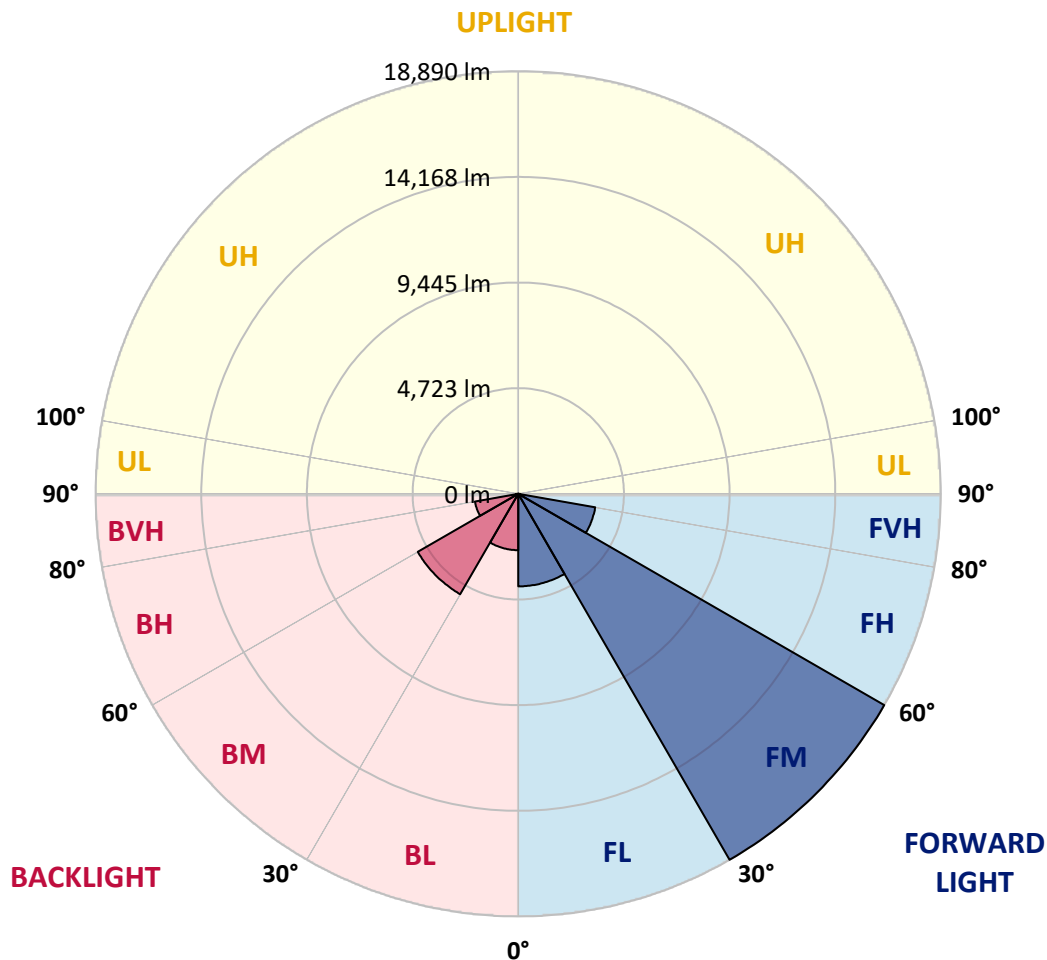


REPORT NUMBER: P652624
 CATALOG NUMBER: GALN-SA9B-840-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4135.2	11.4			
FM (30°-60°)	18890.3	51.9			
FH (60°-80°)	3494.2	9.6			G2/5000
FVH (80°-90°)	85.5	0.2			G1/100
BL (0°-30°)	2517.6	6.9	B4/5000		
BM (30°-60°)	5184.7	14.2	B4/8500		
BH (60°-80°)	1968.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	113.1	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





REPORT NUMBER: P652624

CATALOG NUMBER: GALN-SA9B-840-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6962.6	6962.6	6962.6	6962.6	6962.6	6962.6	6962.6	6962.6	6962.6	6962.6	6962.6
2.5°	7670.2	7547.6	7538.1	7505.1	7523.9	7439.1	7349.4	7231.5	7108.8	7184.3	7005.0
5°	8208.0	8042.8	8108.9	7995.7	8009.9	7896.7	7712.6	7575.8	7424.9	7335.3	7207.9
7.5°	8396.6	8410.8	8457.9	8439.1	8344.7	8344.7	8222.1	7981.5	7717.4	7665.5	7453.2
10°	8651.4	8656.1	8604.2	8618.3	8750.4	8689.1	8580.6	8476.9	8137.2	8075.9	7698.5
12.5°	8741.0	8656.1	8741.0	8816.5	8972.1	9057.1	9033.4	8958.0	8594.8	8552.3	8000.4
15°	8755.1	8703.3	8774.0	8943.9	9080.6	9439.1	9618.4	9566.5	9085.3	9090.1	8340.0
17.5°	8689.1	8759.9	8788.2	8934.4	9250.5	9585.4	10104.3	10175.0	9778.8	9717.5	8769.3
20°	8778.8	8726.9	8764.6	8896.7	9316.5	9840.1	10519.4	10986.4	10429.7	10387.3	9212.7
22.5°	9123.1	9052.4	9042.9	9127.8	9429.7	9972.2	10958.1	11797.8	11222.2	11245.9	9764.6
25°	9392.0	9429.7	9396.7	9392.0	9580.7	10170.3	11538.4	12764.8	12297.8	12160.9	10415.6
27.5°	9854.2	9943.9	9877.9	9967.4	9925.1	10467.5	11953.4	13835.6	13458.2	13274.3	11005.2
30°	10495.8	10542.9	10481.6	10481.6	10354.3	10882.6	12330.8	14953.6	14797.9	14547.9	11698.7
32.5°	11340.2	11410.9	11288.3	11217.5	11198.7	11500.6	13010.1	16057.4	16321.5	16109.3	12618.5
35°	12458.2	12415.7	12269.5	12203.4	11948.7	12448.7	14019.6	17326.4	18019.8	17642.4	13731.8
37.5°	13444.1	13378.0	13368.6	13000.7	13062.0	13472.4	14878.1	18288.6	19666.1	19557.5	14906.4
40°	14363.9	14425.3	14524.3	14316.8	14222.4	14675.3	15878.2	19024.5	20944.4	20902.0	15812.1
42.5°	15349.8	15293.2	15467.8	15293.2	15151.7	15793.2	16963.1	19534.0	22067.2	21718.1	16760.3
45°	16779.1	16599.9	16661.2	16675.3	16571.6	16807.5	17411.2	19901.9	22854.9	22817.2	17453.7
47.5°	17972.6	17977.3	17873.5	17793.4	17477.3	17713.1	17911.3	20133.1	23760.6	23699.3	17722.6
50°	18416.0	18354.7	18656.6	18831.2	18850.0	18368.9	18302.8	20260.4	24237.0	23968.2	17991.4
52.5°	16821.6	16878.2	17354.6	18392.4	18991.5	19043.4	18760.4	20524.6	24430.5	24373.9	18208.5
55°	13538.4	13812.0	14595.1	15793.2	17213.1	18774.5	19255.7	20798.2	24534.2	24487.1	19170.8
56°	11901.5	12113.8	13132.7	14071.4	15854.5	17798.1	18944.4	21090.7	24614.5	24836.2	19397.2
57.5°	9580.7	9826.0	10557.2	11623.2	13727.1	15939.5	18085.8	20732.2	24303.1	24388.0	19562.3
60°	5990.9	6014.4	6891.8	7594.7	9075.9	11236.4	13802.6	18038.6	22491.7	22369.0	17571.6
62.5°	3929.4	3934.2	4731.4	5306.9	5981.4	6476.7	8123.1	11962.9	16595.2	16378.1	12510.0
65°	2759.6	2820.9	3438.8	4207.8	4481.4	4221.9	4170.0	6306.9	9269.3	8958.0	6722.0
67.5°	2019.0	2023.7	2570.9	3396.4	3792.7	3212.5	2608.6	3080.3	3670.0	3660.5	3113.4
70°	1335.0	1391.6	1811.4	2537.9	2990.7	2580.4	2132.2	2202.9	2335.0	2335.0	2316.1
72.5°	778.3	830.2	1108.5	1608.6	1679.3	1613.3	1688.7	1886.9	1971.8	1967.1	1943.5
75°	443.5	467.0	528.3	669.9	834.9	985.9	1240.6	1429.3	1514.2	1566.1	1504.8
77.5°	259.4	273.6	311.3	382.1	434.0	533.0	674.6	806.6	919.9	905.7	915.2
80°	136.8	136.8	174.5	226.4	301.9	377.4	448.2	523.6	584.9	599.1	613.3
82.5°	80.2	84.9	113.2	165.1	217.0	268.9	344.4	396.3	452.9	457.6	467.0
85°	42.5	47.2	70.7	108.5	146.2	165.1	169.8	160.4	174.5	165.1	188.7
87.5°	14.1	14.1	23.5	18.8	18.8	23.5	28.3	28.3	37.8	37.8	37.8
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: P652624

CATALOG NUMBER: GALN-SA9B-840-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6962.6	6962.6	6962.6	6962.6	6962.6	6962.6	6962.6	6962.6	6962.6	6962.6	6962.6
2.5°	7000.3	7000.3	6920.2	6769.2	6745.7	6684.3	6627.7	6623.0	6580.5	6542.8	6523.9
5°	7132.4	6986.2	6868.3	6731.4	6571.1	6495.6	6410.7	6316.3	6278.7	6316.3	6311.6
7.5°	7283.4	7160.7	6807.0	6552.2	6368.2	6292.8	6198.4	6099.4	6108.8	6108.8	6042.8
10°	7429.6	7264.5	6698.5	6372.9	6104.1	6047.5	5995.6	6033.3	6080.5	6089.9	6047.5
12.5°	7674.9	7302.2	6646.6	6193.7	6023.9	5901.2	5934.3	6038.0	6137.1	6108.8	6141.8
15°	7858.9	7335.3	6410.7	6009.7	5797.4	5854.0	5972.0	6042.8	6207.8	6189.0	6222.0
17.5°	8038.1	7354.1	6179.6	5764.5	5674.8	5830.5	5920.1	6123.0	6174.9	6288.1	6330.5
20°	8406.0	7391.9	5943.7	5613.5	5585.2	5764.5	5920.1	6014.4	6127.7	6226.8	6226.8
22.5°	8594.8	7373.0	5788.0	5415.4	5505.0	5618.2	5759.8	5920.1	5920.1	6014.4	6019.2
25°	8830.7	7297.5	5542.7	5321.0	5387.0	5495.6	5656.0	5599.4	5660.7	5660.7	5736.1
27.5°	9099.5	7137.1	5330.4	5151.2	5283.2	5401.2	5424.8	5387.0	5316.3	5306.9	5278.5
30°	9316.5	6939.0	5174.8	5094.6	5203.1	5269.1	5193.7	5113.4	4990.8	4981.4	4915.3
32.5°	9613.7	6693.8	4981.4	4953.1	5075.7	5080.5	5056.8	4934.2	4754.9	4679.5	4604.0
35°	10113.7	6552.2	4835.2	4877.6	4915.3	4901.2	4858.7	4726.7	4547.4	4514.4	4486.1
37.5°	10481.6	6448.5	4684.2	4736.1	4769.1	4788.0	4660.6	4514.4	4519.1	4453.0	4434.2
40°	10896.8	6382.4	4561.6	4585.1	4589.8	4651.2	4495.5	4424.8	4457.8	4415.3	4443.6
42.5°	11429.8	6401.3	4434.2	4415.3	4504.9	4481.4	4405.9	4311.6	4330.4	4203.1	4221.9
45°	11712.9	6528.6	4358.7	4273.8	4372.9	4368.2	4269.1	4179.4	4066.2	3820.9	3830.4
47.5°	11901.5	6561.7	4179.4	4122.8	4226.6	4287.9	4174.7	3967.2	3806.8	3632.3	3589.8
50°	12094.9	6623.0	4094.6	3976.6	4019.1	4165.3	4023.8	3825.6	3670.0	3514.3	3537.9
52.5°	12264.7	6740.9	3929.4	3754.9	3830.4	3990.8	3915.3	3674.7	3504.9	3377.5	3339.8
55°	13019.5	7005.0	3651.1	3424.7	3603.9	3806.8	3764.3	3471.9	3287.9	3221.9	3212.5
56°	13137.4	7014.5	3504.9	3311.5	3476.6	3745.5	3693.6	3382.2	3217.2	3113.4	3118.1
57.5°	13156.4	6901.2	3297.3	3207.7	3349.2	3655.8	3589.8	3311.5	3085.0	2990.7	2962.4
60°	11576.0	5387.0	3037.9	2981.3	3146.3	3382.2	3358.6	3118.1	2863.4	2754.9	2806.8
62.5°	7891.9	3948.3	2835.0	2825.6	2910.5	3141.6	3080.3	2863.4	2651.1	2580.4	2547.3
65°	4594.6	2995.5	2637.0	2599.2	2669.9	2792.6	2835.0	2608.6	2386.9	2339.7	2325.6
67.5°	2712.4	2476.6	2382.2	2320.9	2297.3	2372.8	2405.8	2273.7	2052.0	1985.9	2042.5
70°	2269.0	2202.9	2207.6	2103.8	2047.2	1995.4	1967.1	1849.2	1665.2	1580.2	1556.7
72.5°	1957.7	1929.3	1910.5	1816.1	1764.2	1646.3	1523.6	1405.7	1268.9	1198.2	1202.9
75°	1495.4	1486.0	1495.4	1448.2	1358.6	1264.2	1151.0	1000.0	896.3	806.6	825.5
77.5°	891.5	919.9	934.0	915.2	877.4	792.5	721.7	622.7	523.6	452.9	443.5
80°	613.3	636.8	660.4	636.8	599.1	537.7	462.3	386.8	316.0	278.3	268.9
82.5°	467.0	490.6	504.8	481.1	434.0	367.9	316.0	264.2	207.6	169.8	160.4
85°	169.8	193.4	188.7	226.4	245.3	235.9	202.8	155.7	117.9	84.9	80.2
87.5°	47.2	42.5	47.2	47.2	47.2	42.5	37.8	37.8	37.8	23.5	18.8
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)