

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: P652634

Luminaire Tested: **GALN-SA9B-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652634  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
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-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26383.8 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

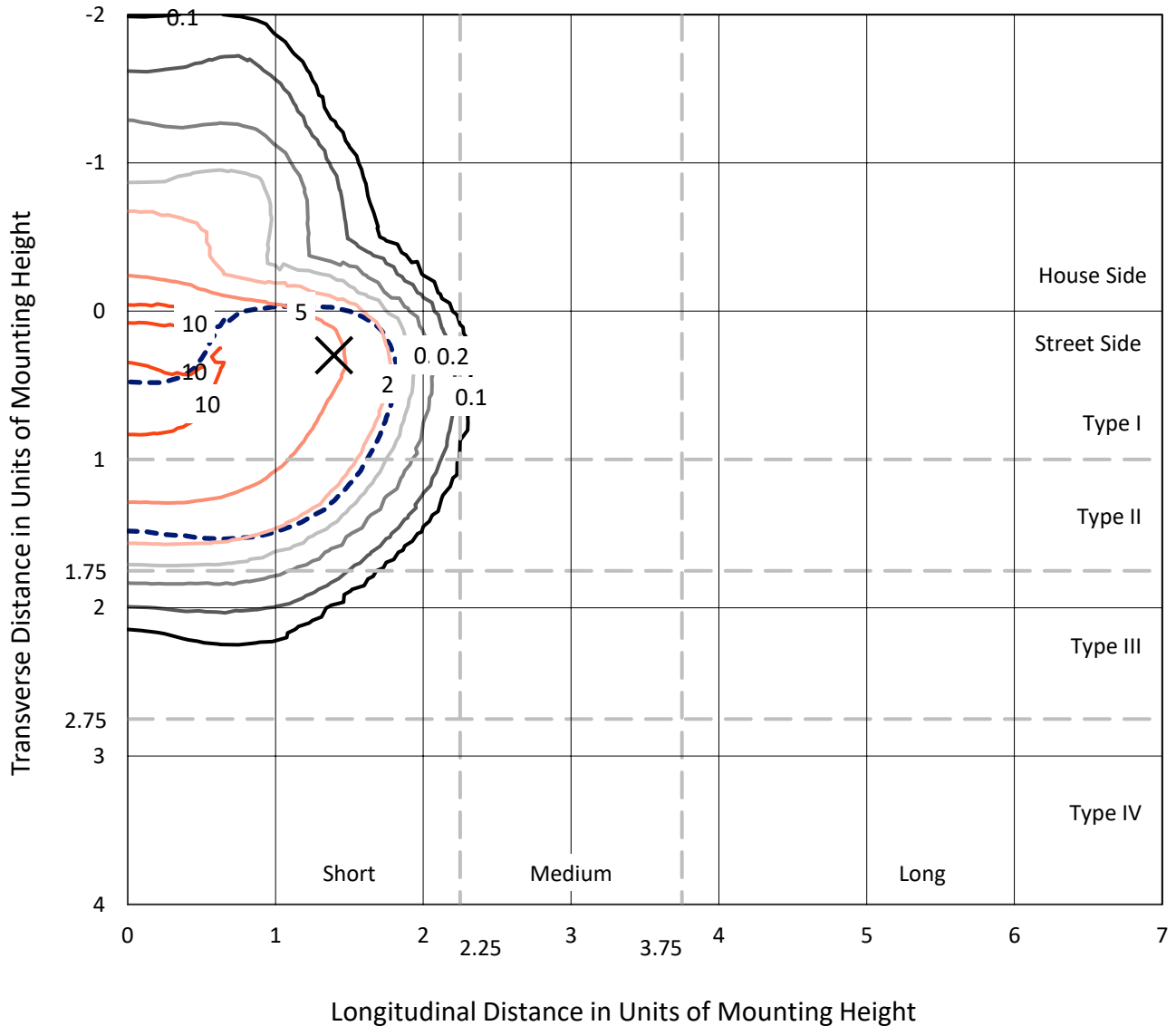
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P652634  
 CATALOG NUMBER: GALN-SA9B-840-U-T3R-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

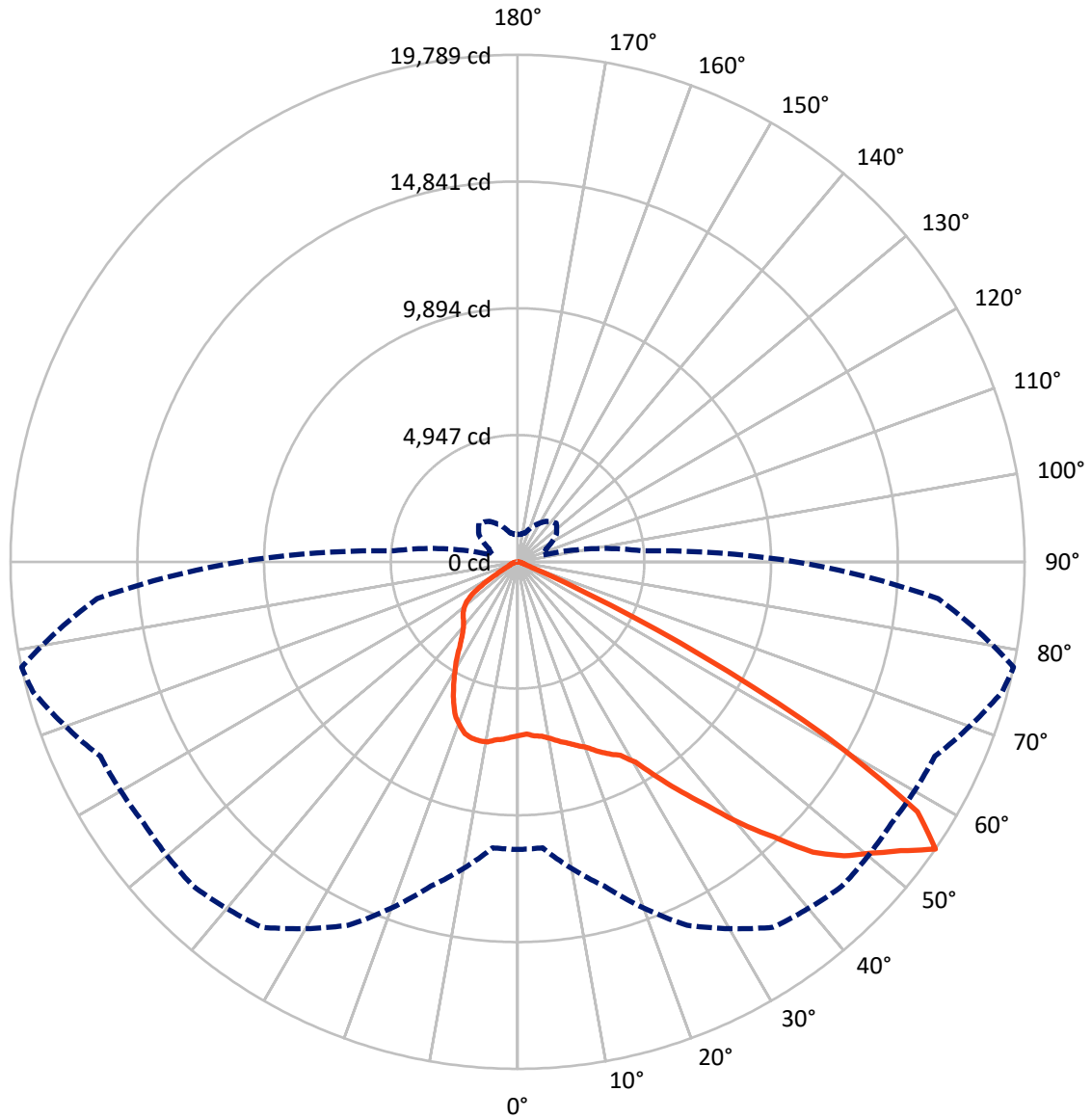
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P652634  
CATALOG NUMBER: GALN-SA9B-840-U-T3R-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P652634

CATALOG NUMBER: GALN-SA9B-840-U-T3R-GRSBK

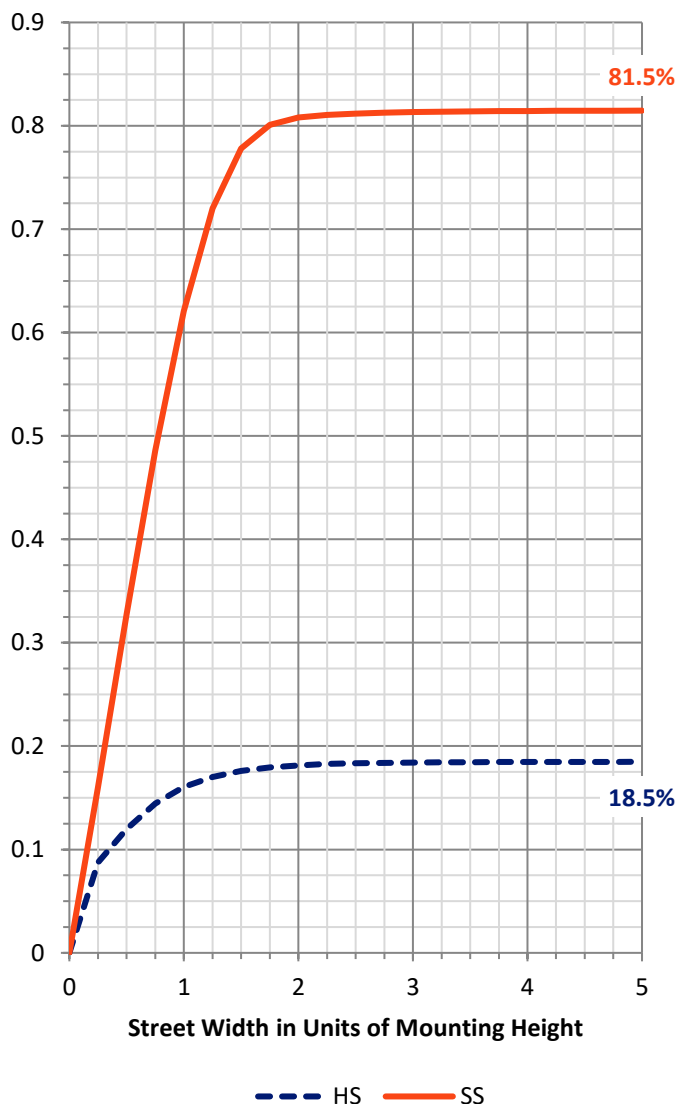
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4900.5	0.0	4900.5
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	21483.3	0.0	21483.3
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	26383.8	0.0	26383.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	604.9	2.3
10°-20°	1600.8	6.1
20°-30°	2805.8	10.6
30°-40°	4626.5	17.5
40°-50°	6732.1	25.5
50°-60°	7628.2	28.9
60°-70°	2181.0	8.3
70°-80°	169.3	0.6
80°-90°	35.2	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°	26383.8	100.0
0°-180°	26383.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P652634

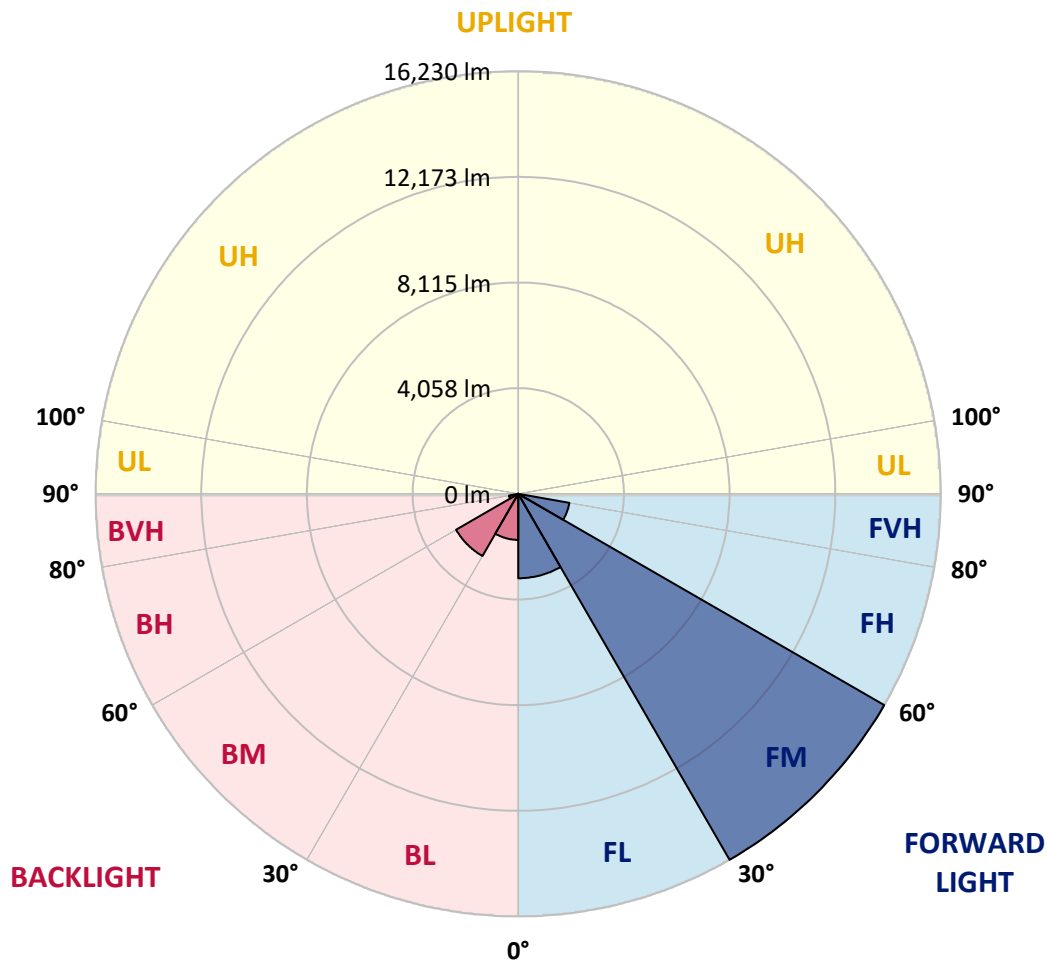
CATALOG NUMBER: GALN-SA9B-840-U-T3R-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3243.3	12.3			
FM (30°-60°)	16230.2	61.5			
FH (60°-80°)	1992.7	7.6			G2/5000
FVH (80°-90°)	17.2	0.1			G1/100
BL (0°-30°)	1768.1	6.7	B3/2500		
BM (30°-60°)	2756.6	10.4	B3/5000		
BH (60°-80°)	357.7	1.4	B1/500		G1/500
BVH (80°-90°)	18.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





REPORT NUMBER: P652634

CATALOG NUMBER: GALN-SA9B-840-U-T3R-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	6783.3	6783.3	6783.3	6783.3	6783.3	6783.3	6783.3	6783.3	6783.3	6783.3	6783.3
2.5°	6377.6	6438.9	6448.4	6523.9	6519.2	6646.5	6684.3	6689.0	6773.8	6731.4	6839.9
5°	6198.3	6165.4	6151.2	6283.3	6321.0	6434.2	6528.6	6585.2	6759.7	6821.0	6934.2
7.5°	6038.0	6038.0	6047.5	6165.4	6151.2	6297.4	6396.5	6571.1	6825.7	6877.6	7014.4
10°	5882.3	5825.7	5896.5	6019.1	6122.9	6188.9	6396.5	6561.6	6858.8	7009.7	7198.5
12.5°	5802.1	5830.4	5839.9	5929.5	6042.7	6240.8	6354.0	6627.7	7094.7	7184.2	7387.1
15°	6306.8	6250.2	6113.5	6033.2	6127.6	6222.0	6505.0	6783.3	7217.3	7344.6	7571.1
17.5°	6891.8	6844.6	6731.4	6514.4	6302.1	6476.7	6698.4	6953.1	7349.3	7538.1	7872.9
20°	7656.0	7580.5	7467.3	7042.8	6858.8	6670.1	6906.0	7207.9	7566.4	7736.2	8080.5
22.5°	8566.4	8566.4	8311.7	7797.5	7415.4	7236.1	7335.2	7509.7	7806.9	8038.1	8377.7
25°	9514.6	9486.2	9255.1	8722.1	8075.8	7863.5	7976.7	8099.4	8179.6	8307.0	8533.4
27.5°	10599.5	10434.4	10142.0	9552.2	8981.5	8571.1	8693.8	8585.3	8486.2	8552.2	8877.8
30°	11335.4	11439.2	11066.5	10500.5	9962.7	9505.2	9528.7	9434.3	8981.5	9075.8	9269.2
32.5°	12099.6	12165.6	11958.0	11646.8	11108.9	10575.9	10382.5	10302.3	9962.7	10005.1	9816.5
35°	12736.4	12863.8	12679.8	12543.0	12387.3	11958.0	11425.0	11684.4	11137.3	11033.5	10542.9
37.5°	13321.4	13283.6	13500.6	13359.0	13326.1	13024.1	12439.2	12491.1	12123.2	12099.6	11533.5
40°	13845.0	13854.4	14151.5	14217.6	14085.5	13547.8	12698.7	13109.0	13406.2	13434.6	12708.1
42.5°	14278.9	14406.2	14661.0	15194.0	14995.9	14099.6	12967.5	13415.6	14519.4	14694.0	13821.3
45°	14656.3	14915.7	15231.8	15708.2	15595.0	14882.7	13637.4	14047.7	15708.2	16165.8	14868.5
47.5°	14679.8	15019.5	15363.9	16071.4	16213.0	15302.5	14330.8	15047.8	16651.6	17147.0	15632.8
50°	14585.5	14764.8	15453.5	16222.4	16543.1	15986.5	15302.5	15887.5	17566.8	17878.1	16019.5
52.5°	13467.5	13604.4	14986.5	16363.9	17137.5	16760.1	16590.3	17057.3	18500.7	18731.9	16382.8
55°	11226.8	11203.3	13104.3	15651.6	17411.1	17906.4	17802.6	17967.7	19581.0	19788.6	16472.4
57.5°	7679.6	8108.8	9750.4	13033.6	15736.5	17637.5	17746.0	17472.4	18321.5	18401.8	14359.1
60°	4141.7	4321.0	5641.8	8698.5	11981.6	14373.3	14656.3	14161.0	14094.9	13868.5	10250.4
62.5°	1646.3	1735.9	2485.9	4306.8	6528.6	8736.2	9344.8	9141.9	8707.9	8113.5	5306.8
65°	783.1	839.7	1235.9	2014.2	2896.3	3641.7	4250.2	4438.9	3273.8	2948.2	1750.0
67.5°	533.0	575.5	901.0	1151.0	1033.1	1080.3	1405.7	1306.7	768.9	655.7	485.8
70°	405.7	434.0	721.7	783.1	462.3	325.5	363.2	339.6	316.0	320.8	316.0
72.5°	287.7	311.3	528.3	462.3	202.8	151.0	193.4	231.1	231.1	231.1	226.4
75°	174.5	198.1	306.6	179.2	80.2	80.2	122.6	155.7	165.1	169.8	160.4
77.5°	89.7	113.2	103.8	51.9	51.9	61.3	89.7	108.5	117.9	117.9	113.2
80°	18.8	18.8	18.8	28.3	51.9	66.0	89.7	99.1	113.2	113.2	103.8
82.5°	0.0	4.7	14.1	28.3	47.2	61.3	84.9	99.1	113.2	117.9	108.5
85°	0.0	4.7	9.4	18.8	33.1	37.8	33.1	28.3	28.3	28.3	28.3
87.5°	0.0	0.0	4.7	4.7	4.7	9.4	9.4	9.4	9.4	9.4	9.4
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: P652634  
 CATALOG NUMBER: GALN-SA9B-840-U-T3R-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6783.3	6783.3	6783.3	6783.3	6783.3	6783.3	6783.3	6783.3	6783.3	6783.3	6783.3
2.5°	6849.4	6863.5	6839.9	6835.2	6816.3	6872.9	6736.2	6703.1	6788.0	6707.8	6726.7
5°	6939.0	6972.0	6929.5	6858.8	6755.0	6594.6	6457.8	6278.6	6193.6	6132.3	6122.9
7.5°	7005.0	7028.6	6986.1	6759.7	6448.4	6042.7	5740.8	5519.1	5344.6	5292.7	5207.7
10°	7273.9	7278.6	7066.3	6566.3	5957.8	5424.8	4962.5	4622.8	4448.3	4339.8	4292.6
12.5°	7453.1	7443.7	7014.4	6184.2	5372.9	4665.3	4137.0	3726.6	3566.2	3514.3	3481.3
15°	7679.6	7627.7	6891.8	5792.7	4618.1	3854.0	3377.5	3094.5	3080.3	3047.3	3080.3
17.5°	7858.8	7712.6	6712.5	5080.4	3896.4	3174.7	2863.4	2882.2	2920.0	2952.9	2957.7
20°	8151.3	7849.4	6302.1	4457.7	3226.6	2721.8	2717.1	2802.0	2896.3	2934.1	2971.8
22.5°	8373.0	7906.0	5863.5	3792.6	2679.3	2537.8	2618.0	2745.4	2816.2	2853.9	2910.5
25°	8453.1	7750.3	5278.5	3127.5	2415.2	2452.9	2575.6	2660.5	2750.2	2792.5	2769.0
27.5°	8533.4	7670.2	4580.4	2575.6	2273.6	2396.3	2500.1	2585.0	2613.3	2669.9	2707.7
30°	8726.8	7391.8	3953.0	2226.5	2202.9	2358.6	2434.1	2462.4	2537.8	2570.9	2570.9
32.5°	8882.5	7283.3	3287.9	2061.4	2193.5	2377.4	2386.9	2386.9	2396.3	2372.7	2363.3
35°	9203.2	6910.7	2693.5	1962.3	2188.8	2382.2	2405.8	2325.5	2108.6	2023.7	2000.1
37.5°	9599.4	6670.1	2254.8	1938.8	2221.8	2438.8	2476.5	2174.7	1891.6	1754.8	1731.2
40°	10080.6	6500.3	1967.1	1929.3	2297.3	2570.9	2457.7	2056.7	1688.7	1490.6	1481.2
42.5°	10641.9	6344.6	1773.7	1924.6	2391.6	2707.7	2438.8	1957.6	1481.2	1349.1	1368.0
45°	11090.1	6259.7	1641.5	1891.6	2424.6	2787.8	2452.9	1783.1	1396.3	1311.4	1320.8
47.5°	11439.2	6080.4	1533.1	1835.0	2419.9	2816.2	2325.5	1712.4	1353.8	1377.4	1401.0
50°	11448.6	5839.9	1396.3	1712.4	2349.2	2764.3	2179.4	1646.3	1344.4	1443.5	1490.6
52.5°	11321.2	5500.2	1250.1	1537.8	2184.1	2585.0	2047.2	1618.0	1302.0	1292.5	1349.1
55°	10868.4	4863.4	1004.7	1245.4	1844.4	2132.2	1929.3	1566.1	1174.5	1066.1	1075.6
57.5°	8783.4	3486.0	740.6	891.5	1306.7	1561.4	1740.6	1542.5	1056.6	905.7	910.4
60°	5438.9	1976.5	542.4	608.5	806.6	948.1	1410.4	1434.0	943.4	764.2	754.7
62.5°	2792.5	976.5	419.8	429.2	495.3	556.7	967.0	1202.9	853.8	726.5	726.5
65°	934.0	481.1	367.9	330.2	330.2	344.4	584.9	834.9	721.7	608.5	608.5
67.5°	401.0	358.5	320.8	287.7	264.2	250.0	330.2	485.8	537.7	462.3	443.4
70°	311.3	301.9	278.3	240.6	207.6	188.7	193.4	250.0	306.6	297.2	287.7
72.5°	231.1	231.1	221.7	188.7	160.4	136.8	127.3	132.1	146.2	151.0	155.7
75°	160.4	165.1	165.1	146.2	117.9	99.1	84.9	70.7	56.6	47.2	42.5
77.5°	108.5	113.2	122.6	108.5	89.7	66.0	51.9	37.8	23.5	9.4	9.4
80°	94.4	108.5	117.9	108.5	94.4	70.7	51.9	28.3	14.1	0.0	0.0
82.5°	99.1	108.5	122.6	103.8	89.7	66.0	51.9	33.1	14.1	4.7	0.0
85°	23.5	23.5	28.3	33.1	42.5	47.2	37.8	23.5	14.1	4.7	0.0
87.5°	9.4	9.4	9.4	9.4	9.4	4.7	4.7	4.7	4.7	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)