

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: P651140

Luminaire Tested: **GALN-SA9C-840-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40070.3 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

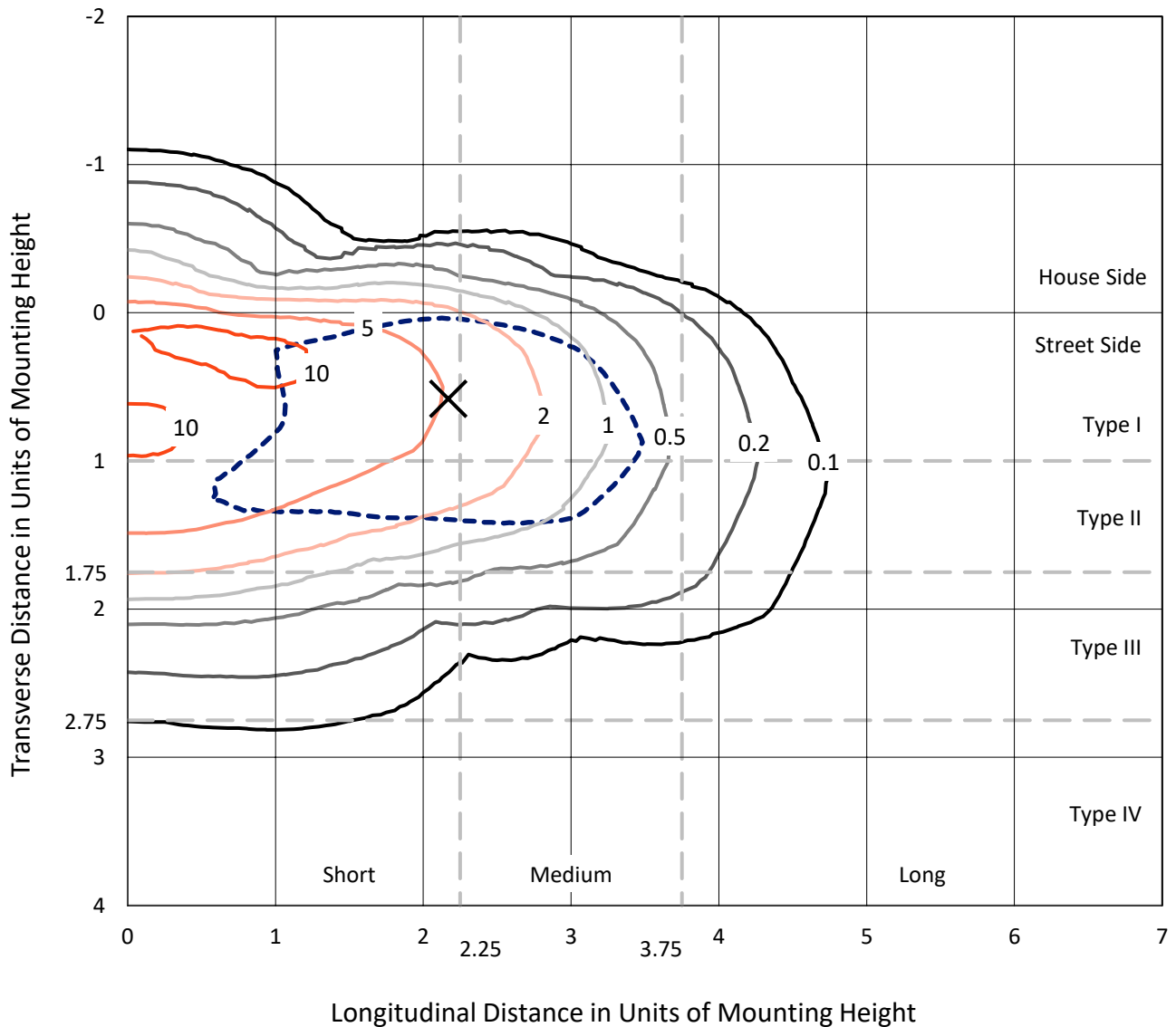
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651140
 CATALOG NUMBER: GALN-SA9C-840-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

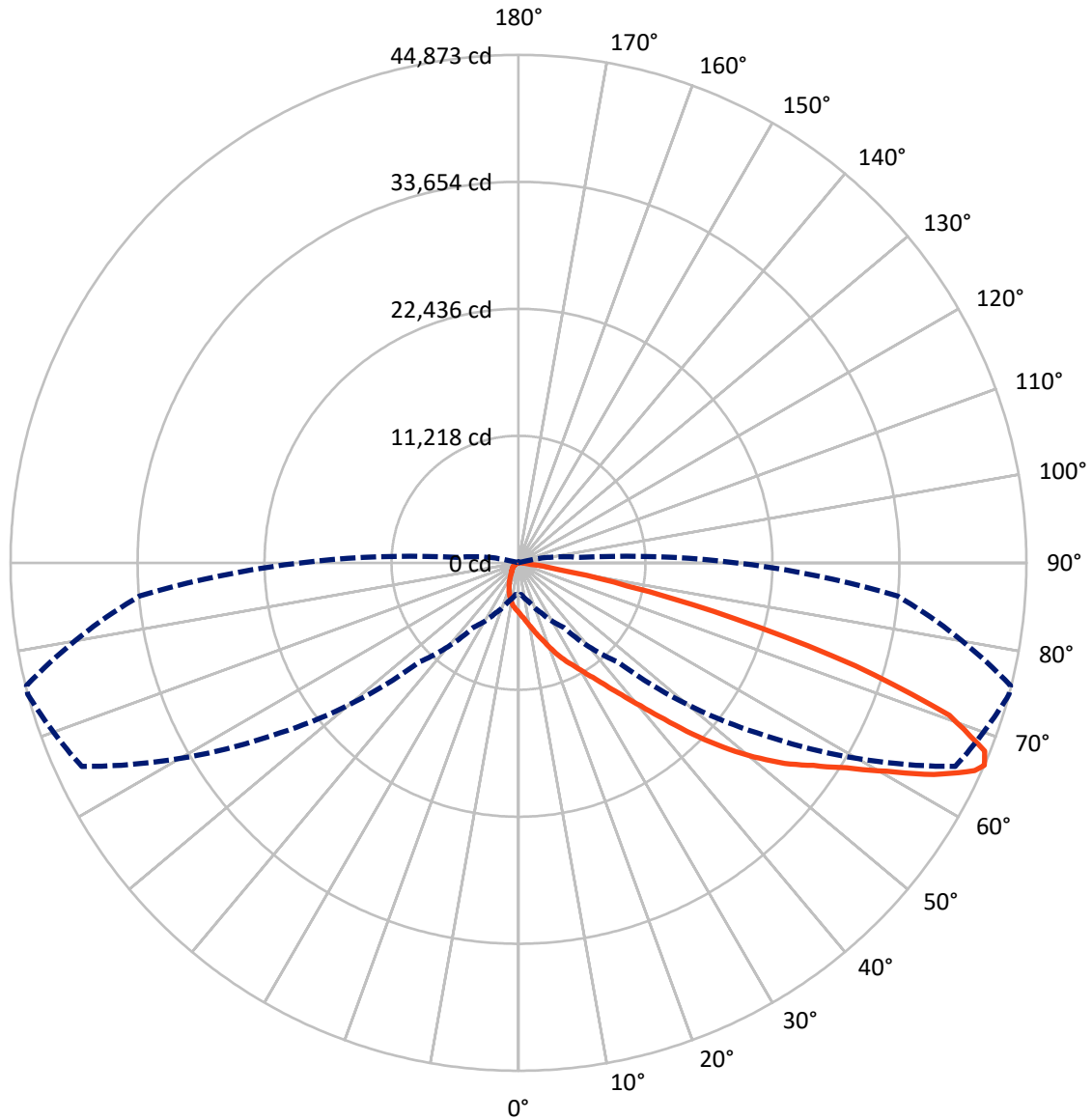
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

REPORT NUMBER: P651140
CATALOG NUMBER: GALN-SA9C-840-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P651140
 CATALOG NUMBER: GALN-SA9C-840-U-T2-HSS

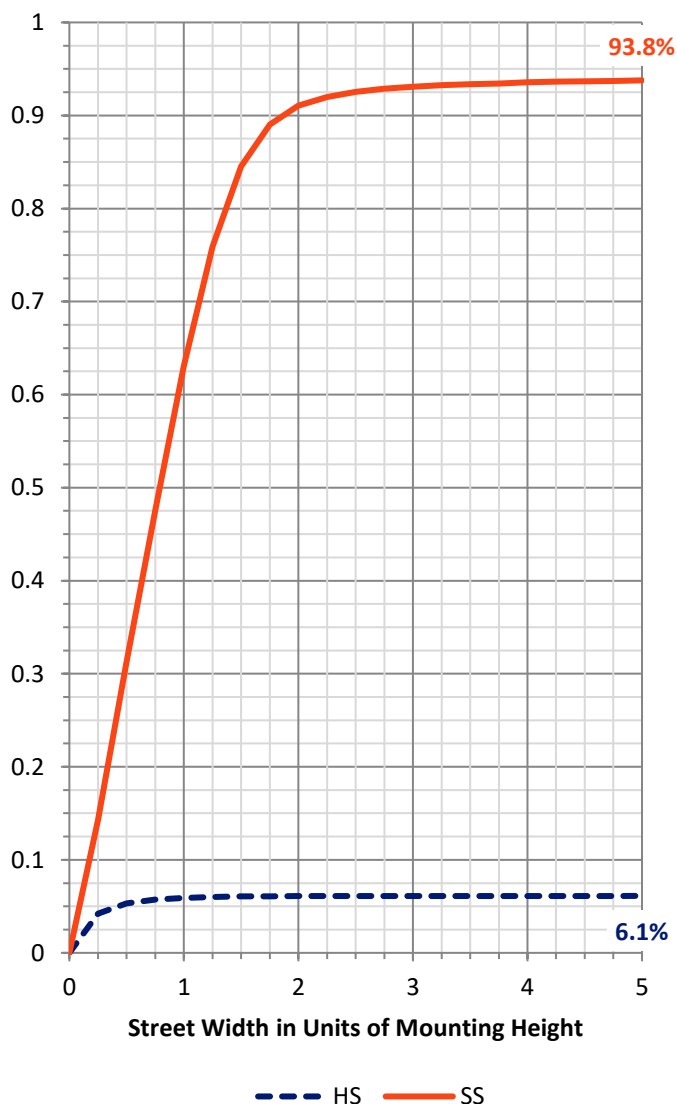
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2473.8	0.0	2473.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	37596.5	0.0	37596.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	40070.3	0.0	40070.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.7	1.1
10°-20°	1243.9	3.1
20°-30°	2147.9	5.4
30°-40°	3874.5	9.7
40°-50°	6999.3	17.5
50°-60°	10912.0	27.2
60°-70°	10365.9	25.9
70°-80°	3884.9	9.7
80°-90°	219.2	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°	40070.3	100.0
0°-180°	40070.3	100.0

Coefficient of Utilization

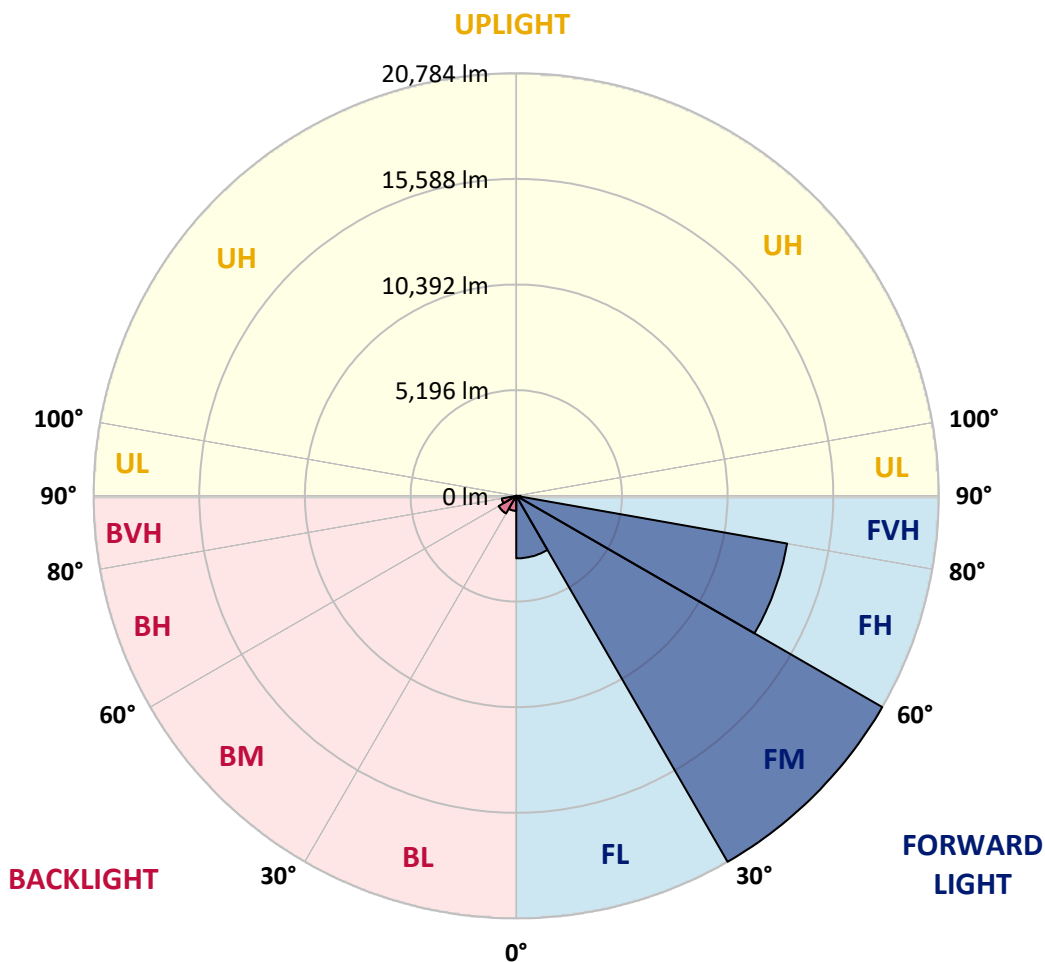


REPORT NUMBER: P651140
 CATALOG NUMBER: GALN-SA9C-840-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3075.7	7.7			
FM (30°-60°)	20784.4	51.9			
FH (60°-80°)	13528.5	33.8			G5
FVH (80°-90°)	207.9	0.5			G2/225
BL (0°-30°)	738.8	1.8	B2/1000		
BM (30°-60°)	1001.3	2.5	B2/2500		
BH (60°-80°)	722.4	1.8	B2/1000		G2/1000
BVH (80°-90°)	11.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Short





REPORT NUMBER: P651140
 CATALOG NUMBER: GALN-SA9C-840-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4382.1	4382.1	4382.1	4382.1	4382.1	4382.1	4382.1	4382.1	4382.1	4382.1	4382.1
2.5°	5235.4	5170.2	5190.9	5161.3	5093.2	4992.4	4903.5	4776.1	4648.7	4628.0	4485.8
5°	5925.8	5907.9	5884.2	5798.4	5750.9	5596.9	5413.2	5193.9	4930.2	4882.8	4625.0
7.5°	6396.8	6388.0	6399.8	6355.4	6313.9	6174.6	5979.1	5679.8	5271.0	5244.3	4814.6
10°	6550.9	6574.6	6619.0	6690.2	6755.3	6710.9	6562.7	6189.4	5712.4	5635.4	5030.9
12.5°	6462.0	6488.7	6595.4	6784.9	6995.4	7116.8	7057.6	6784.9	6180.5	6118.4	5273.9
15°	6233.9	6266.5	6417.6	6710.9	7087.2	7430.9	7579.0	7383.5	6725.7	6625.0	5567.3
17.5°	5896.1	5943.5	6159.8	6547.9	7063.5	7656.0	8073.9	8008.6	7306.4	7211.7	5887.3
20°	5641.3	5676.8	5860.6	6305.0	6962.7	7780.5	8544.9	8728.6	8023.5	7860.5	6263.5
22.5°	5810.2	5822.1	5884.2	6150.9	6782.0	7813.1	8959.7	9478.2	8784.9	8639.8	6654.6
25°	6636.8	6518.3	6456.1	6396.8	6743.5	7783.5	9336.0	10260.5	9543.4	9389.3	7042.7
27.5°	7940.5	7887.2	7573.1	7152.4	7072.4	7822.0	9584.9	11001.1	10257.4	10091.5	7422.0
30°	9359.7	9267.8	9075.2	8459.0	7839.7	8094.5	9765.6	11721.1	11101.9	10882.6	7768.7
32.5°	10663.4	10722.6	10435.2	9801.2	9084.1	8675.3	9999.7	12506.3	12070.7	11798.1	8171.6
35°	12183.3	12301.8	11860.4	11253.0	10414.4	9724.1	10456.0	13392.2	13300.3	12956.6	8793.8
37.5°	13727.0	13798.0	13528.5	12675.1	11919.6	11057.4	11315.2	14485.5	14814.3	14521.0	9537.4
40°	15024.7	15122.4	14924.0	14165.5	13359.5	12601.0	12562.5	15676.6	16615.8	16313.5	10645.5
42.5°	16017.3	16091.4	16097.2	15561.0	14835.1	14491.4	14153.6	17196.5	18873.5	18523.9	11931.4
45°	17270.5	17377.2	17315.0	16950.6	16408.3	16346.2	16171.3	19033.4	21575.6	21134.2	13599.6
47.5°	19208.3	19279.4	19125.3	18695.7	18144.6	18242.4	18138.7	21092.6	24331.1	23951.8	15326.9
50°	20553.5	20671.9	20891.2	21063.0	20663.0	20301.6	19993.4	23015.6	26947.3	26606.5	17092.8
52.5°	20538.6	20734.2	21427.5	22292.6	23166.7	23057.0	22171.1	25139.9	29445.0	29024.3	18752.0
55°	19155.0	19534.2	20553.5	22088.2	24508.8	25714.8	25311.7	27599.1	31601.9	31317.5	20674.9
57.5°	16298.7	16529.9	17946.1	20091.2	23759.3	26965.1	28950.2	30932.3	34188.5	34055.2	23661.5
60°	10962.6	11066.3	12888.5	15540.3	20227.5	25717.7	31616.8	34964.8	37373.6	37308.4	27148.7
62.5°	6281.3	6325.7	7647.1	9884.1	14393.6	21794.9	31841.9	39939.4	41192.8	41228.3	31184.2
65°	3380.7	3404.4	4471.0	5801.3	8758.3	15534.3	28633.2	42665.3	44280.1	44348.2	33684.8
66°	2918.4	2805.8	3558.4	4945.0	6968.7	12364.0	26603.6	42567.6	44872.6	44798.6	33595.9
67.5°	2219.1	2319.9	2841.4	3801.3	5164.2	8790.8	21963.7	40674.3	44422.3	44191.2	32230.1
70°	1588.1	1629.6	2023.6	2711.0	3516.9	4823.6	14035.1	33782.6	40375.0	40063.9	28079.1
72.5°	1025.2	1069.6	1434.0	1961.4	2542.2	2634.0	7857.5	24408.1	31127.9	31083.4	21146.0
75°	731.8	773.3	948.1	1404.4	1911.1	1629.6	3783.6	16449.9	19789.0	19655.7	13081.1
77.5°	530.3	551.1	634.0	918.5	1365.9	1167.4	1754.0	8784.9	9851.6	10316.7	5780.5
80°	305.2	322.9	441.4	560.0	924.4	797.0	838.5	3525.8	3635.5	3460.6	1807.3
82.5°	151.1	171.8	263.7	382.2	577.8	536.3	385.2	1060.7	1120.0	1090.4	456.2
85°	35.6	44.4	148.2	251.9	281.5	240.0	186.7	311.1	385.2	376.3	174.8
87.5°	2.9	5.9	53.3	44.4	47.4	80.0	65.2	80.0	124.5	115.6	62.2
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: P651140
 CATALOG NUMBER: GALN-SA9C-840-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4382.1	4382.1	4382.1	4382.1	4382.1	4382.1	4382.1	4382.1	4382.1	4382.1	4382.1
2.5°	4420.6	4364.3	4201.4	4041.3	3908.0	3768.8	3641.4	3567.3	3537.7	3505.0	3519.9
5°	4482.8	4346.5	4017.6	3733.2	3454.7	3217.7	3028.0	2906.6	2847.3	2838.5	2823.6
7.5°	4565.8	4331.7	3822.1	3377.7	3013.2	2749.6	2533.3	2358.4	2305.1	2257.7	2219.1
10°	4666.5	4305.1	3579.1	3004.4	2616.2	2284.4	1999.9	1792.5	1685.9	1656.3	1677.0
12.5°	4773.2	4254.7	3324.3	2660.7	2213.3	1789.6	1525.9	1422.2	1392.5	1380.7	1383.7
15°	4879.8	4192.5	3057.7	2328.8	1762.9	1428.1	1306.7	1279.9	1268.1	1262.2	1256.3
17.5°	4977.6	4091.7	2758.4	2005.9	1428.1	1220.7	1176.2	1152.6	1128.9	1120.0	1105.2
20°	5093.2	3976.2	2488.8	1644.4	1208.9	1105.2	1051.8	1007.3	971.9	948.1	945.1
22.5°	5202.8	3828.1	2207.4	1362.9	1102.2	992.5	906.6	859.2	817.8	788.1	797.0
25°	5262.1	3647.2	1955.5	1188.1	1004.4	879.9	785.2	725.9	681.5	666.7	663.7
27.5°	5262.1	3425.1	1709.6	1087.4	915.5	779.3	681.5	625.2	595.5	574.8	577.8
30°	5220.6	3179.1	1481.4	1010.4	838.5	690.4	598.5	548.2	524.4	509.6	506.6
32.5°	5188.0	2945.1	1285.9	936.3	758.5	613.3	533.3	494.8	471.1	456.2	456.2
35°	5238.3	2743.6	1134.8	862.2	684.4	554.1	483.0	447.4	423.7	411.8	408.9
37.5°	5371.7	2559.9	1019.2	782.2	616.3	503.7	447.4	406.0	382.2	367.4	361.5
40°	5700.6	2456.2	933.3	708.1	551.1	462.2	406.0	367.4	337.7	322.9	320.0
42.5°	6227.9	2459.2	850.3	640.0	500.7	426.6	370.4	325.9	293.3	278.5	275.5
45°	7022.0	2571.8	785.2	574.8	456.2	388.1	331.9	284.4	254.8	240.0	240.0
47.5°	7973.1	2791.0	728.9	518.5	414.8	352.5	293.3	245.9	216.3	204.4	204.4
50°	9004.2	3075.5	672.5	459.3	379.2	314.0	251.9	213.4	189.6	180.7	180.7
52.5°	10056.0	3419.2	616.3	411.8	340.7	272.6	216.3	189.6	168.9	163.0	160.0
55°	11436.7	3857.7	557.0	361.5	299.2	234.1	192.6	165.9	142.2	133.3	130.4
57.5°	13561.0	4518.4	491.8	317.1	245.9	195.5	165.9	139.3	112.6	97.8	94.8
60°	16123.9	5324.3	423.7	278.5	198.5	160.0	133.3	106.6	82.9	65.2	62.2
62.5°	18523.9	5836.9	358.5	234.1	157.0	121.4	94.8	80.0	59.3	41.5	38.5
65°	19584.5	5665.0	296.3	189.6	124.5	86.0	62.2	56.3	35.6	17.7	14.8
66°	19232.0	5410.2	272.6	171.8	112.6	74.1	53.3	47.4	26.7	8.9	8.9
67.5°	18192.0	4808.8	237.0	148.2	97.8	59.3	41.5	35.6	14.8	2.9	0.0
70°	15587.7	3890.2	186.7	109.7	71.1	41.5	23.7	17.7	8.9	0.0	0.0
72.5°	11973.0	2897.7	148.2	82.9	50.4	23.7	11.9	5.9	8.9	0.0	0.0
75°	7336.0	1656.3	115.6	62.2	32.6	14.8	8.9	0.0	8.9	2.9	0.0
77.5°	3256.2	743.7	77.0	41.5	23.7	11.9	5.9	0.0	5.9	2.9	0.0
80°	823.7	243.0	44.4	29.6	17.7	8.9	2.9	0.0	5.9	5.9	2.9
82.5°	225.2	88.9	32.6	23.7	14.8	8.9	2.9	0.0	5.9	5.9	5.9
85°	88.9	41.5	29.6	23.7	17.7	8.9	2.9	0.0	5.9	5.9	5.9
87.5°	41.5	29.6	29.6	26.7	20.8	8.9	2.9	0.0	5.9	2.9	5.9
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)