

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: P651092

Luminaire Tested: **GALN-SA8C-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40706.1 lumens
Efficiency: N/A
Efficacy: 94.9 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

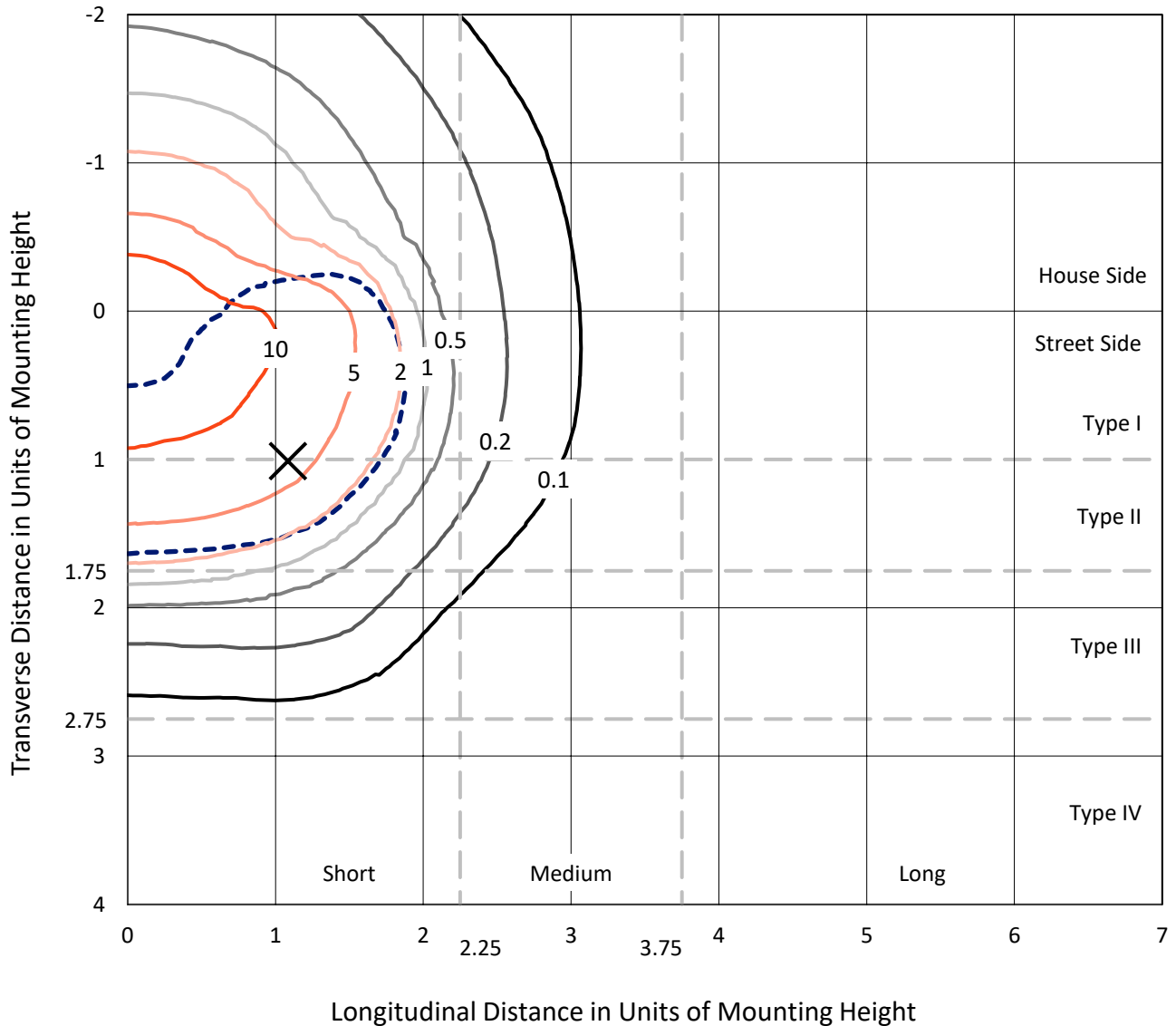
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651092
 CATALOG NUMBER: GALN-SA8C-840-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

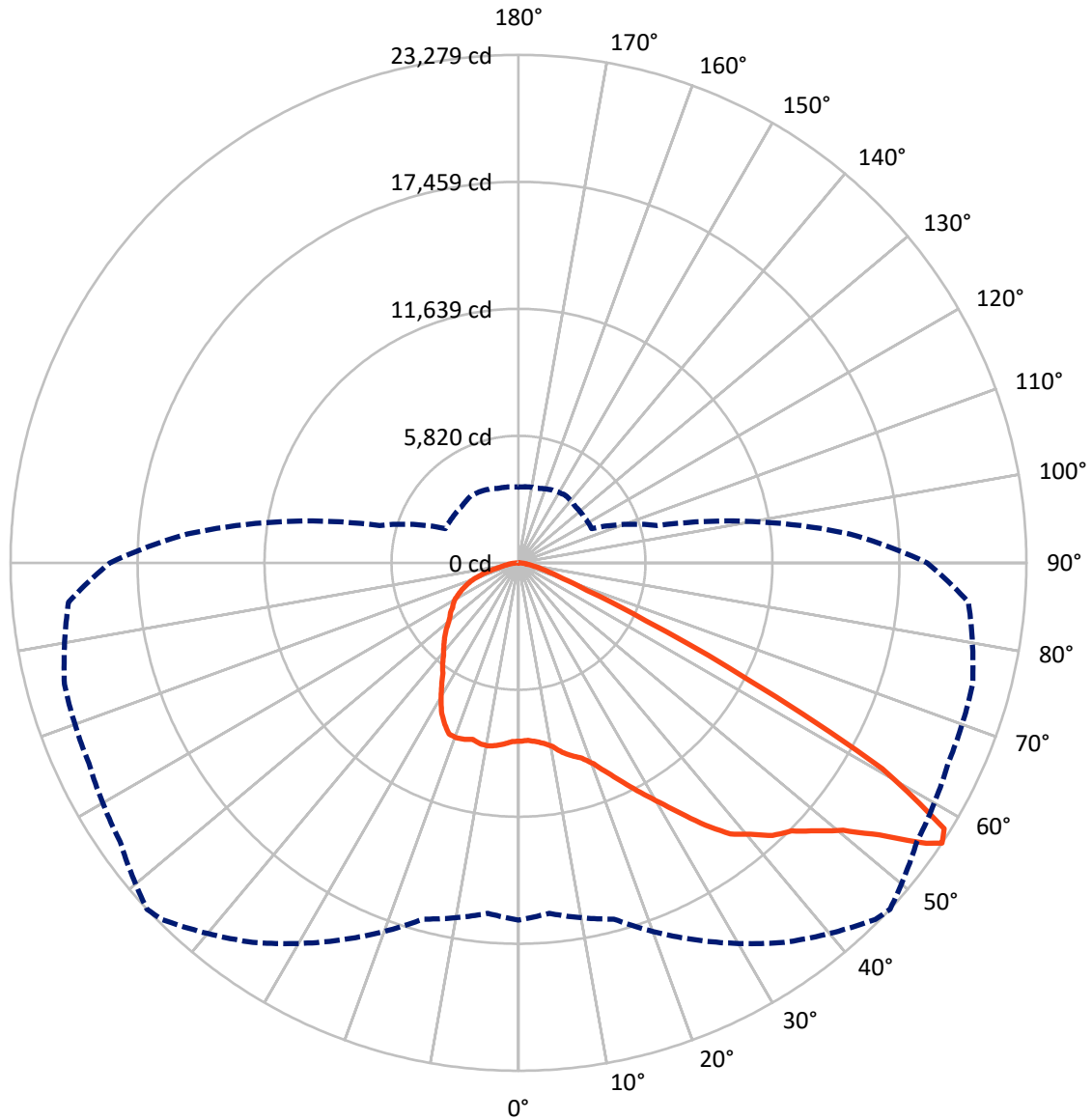
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

REPORT NUMBER: P651092
CATALOG NUMBER: GALN-SA8C-840-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P651092
 CATALOG NUMBER: GALN-SA8C-840-U-T3-GRSWH

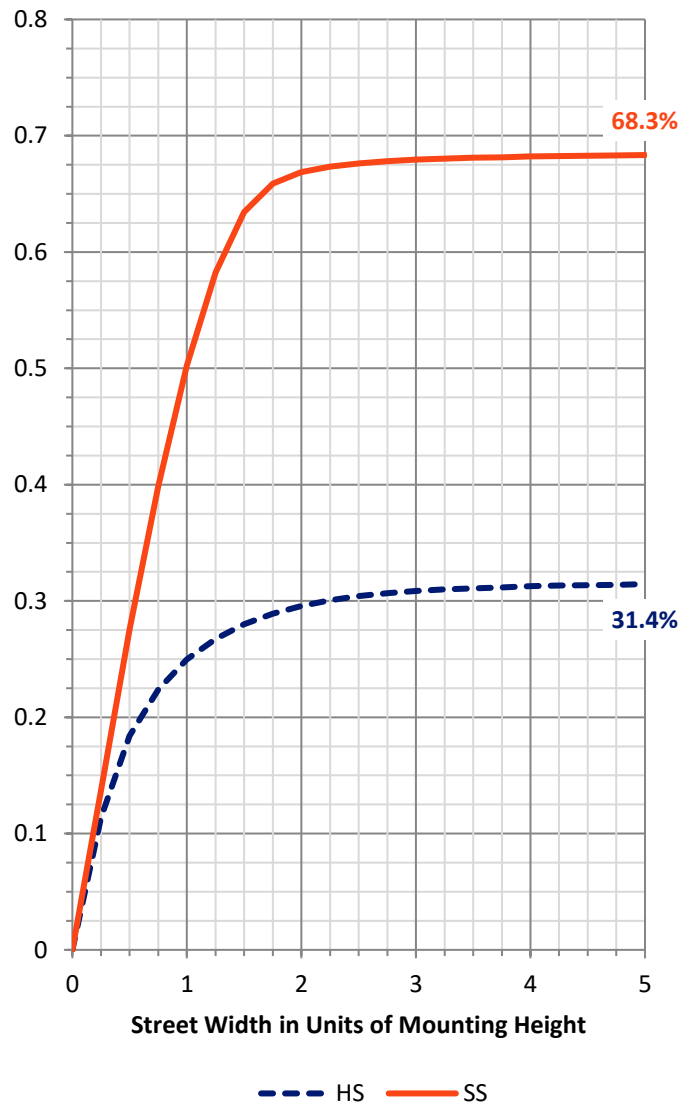
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12899.3	0.0	12899.3
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	27806.8	0.0	27806.8
	% Fixture	68.3	0.0	68.3
Total	Lumens	40706.1	0.0	40706.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.7	2.0
10°-20°	2513.2	6.2
20°-30°	4442.7	10.9
30°-40°	6672.8	16.4
40°-50°	9157.8	22.5
50°-60°	10910.3	26.8
60°-70°	4668.9	11.5
70°-80°	1321.3	3.2
80°-90°	222.3	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°	40706.1	100.0
0°-180°	40706.1	100.0

Coefficient of Utilization



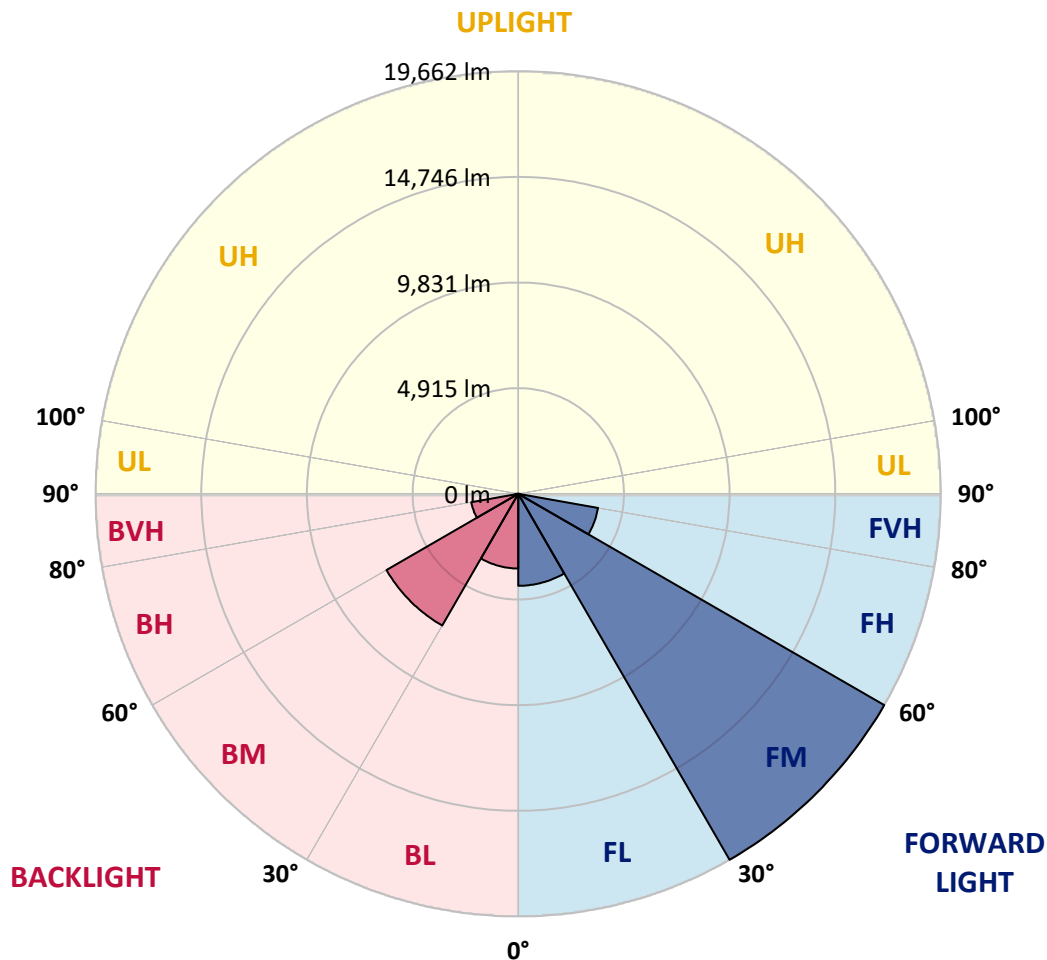
REPORT NUMBER: P651092
 CATALOG NUMBER: GALN-SA8C-840-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4279.6	10.5			
FM (30°-60°)	19662.0	48.3			
FH (60°-80°)	3770.9	9.3			G2/5000
FVH (80°-90°)	94.4	0.2			G1/100
BL (0°-30°)	3473.0	8.5	B4/5000		
BM (30°-60°)	7078.9	17.4	B4/8500		
BH (60°-80°)	2219.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	128.0	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: P651092

CATALOG NUMBER: GALN-SA8C-840-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	8176.6	8176.6	8176.6	8176.6	8176.6	8176.6	8176.6	8176.6	8176.6	8176.6	8176.6
2.5°	8145.5	8129.9	8119.5	8202.6	8171.4	8176.6	8145.5	8176.6	8197.4	8150.6	8218.2
5°	8129.9	8176.6	8135.1	8161.1	8228.5	8207.7	8228.5	8290.8	8275.3	8259.7	8238.9
7.5°	8275.3	8280.5	8311.6	8321.9	8342.7	8321.9	8353.1	8410.3	8394.7	8306.4	8316.8
10°	8482.9	8493.3	8498.5	8555.6	8591.9	8597.1	8560.8	8508.9	8503.7	8623.1	8540.0
12.5°	8721.8	8695.8	8758.1	8778.9	8820.3	8867.1	8913.8	8804.8	8872.3	8877.4	8778.9
15°	9069.5	9095.5	9022.8	9022.8	9038.4	9043.6	9173.4	9121.5	9111.1	9054.0	9095.5
17.5°	9588.7	9412.2	9407.0	9334.3	9323.9	9365.5	9412.2	9453.8	9593.9	9479.7	9256.5
20°	9967.7	10009.2	9858.6	9770.4	9786.0	9879.4	9832.7	10019.6	10118.2	9931.4	9713.3
22.5°	10637.4	10497.2	10533.5	10336.3	10351.9	10450.5	10445.3	10637.4	10694.5	10398.5	10081.9
25°	11089.1	11052.7	11083.9	10928.1	10948.9	11026.8	11151.3	11468.0	11374.6	11047.5	10315.5
27.5°	11748.3	11675.7	11649.7	11592.6	11571.8	11779.6	11924.9	12262.4	12194.8	11717.2	10730.8
30°	12423.3	12376.6	12402.5	12168.8	12251.9	12693.2	12734.8	13196.8	13165.7	12324.6	11192.9
32.5°	12890.5	12916.4	12963.2	12833.4	13202.0	13555.0	13695.2	14219.5	14245.4	13368.1	12085.8
35°	13643.3	13555.0	13581.0	13731.5	13902.8	14546.6	14775.0	15122.9	15340.8	14463.5	12942.4
37.5°	14115.7	14209.1	14100.1	14339.0	14785.4	15558.9	15766.6	16124.8	16353.2	15543.4	14110.5
40°	14852.9	14702.4	14780.2	14951.6	15408.4	16415.6	16358.5	16727.0	16799.7	16462.2	15200.7
42.5°	15647.2	15574.5	15465.5	15854.9	16239.0	16971.0	17085.3	16913.9	17282.6	17360.3	16758.2
45°	16597.2	16685.5	16701.1	16711.4	17048.9	17687.4	17531.7	17381.1	17806.8	18372.7	17723.8
47.5°	17479.8	17199.5	17401.9	17682.3	18159.9	18165.1	18346.8	17988.6	18440.2	18943.8	18595.9
50°	17775.7	17640.7	17910.7	18440.2	19177.4	19255.3	19276.1	18767.3	19000.9	19400.6	18897.1
52.5°	17661.5	17614.7	18305.2	19125.5	20205.4	20599.9	20703.7	20075.5	20205.4	20023.6	19561.6
55°	17116.4	17256.6	17952.2	19623.9	21280.0	22499.9	22697.2	21902.9	21077.5	21217.7	20708.9
56°	16368.8	16124.8	16903.5	19058.0	21233.2	23117.7	23278.7	22287.1	21726.4	21544.7	20698.5
57.5°	13887.3	13570.5	14593.3	17147.6	20054.7	22884.1	23003.5	22448.1	21617.4	21248.8	19187.8
60°	8129.9	8285.6	9583.5	11826.2	15470.7	18762.1	19161.8	19566.8	19011.3	17360.3	14281.9
62.5°	3924.8	3826.1	4755.4	6780.1	9427.8	11976.8	11857.4	12994.3	13617.3	12335.0	9017.6
65°	2055.8	2045.5	2595.7	3701.6	5181.1	6292.1	6401.1	7013.7	7870.3	6354.4	4578.9
67.5°	1510.7	1552.2	1827.4	2601.0	3333.0	3400.4	3384.9	3691.1	3774.2	3192.8	2813.8
70°	1183.6	1204.4	1406.9	1977.9	2481.5	2221.9	2175.2	2211.6	2455.6	2559.4	2434.8
72.5°	856.6	877.3	1048.6	1334.2	1552.2	1515.9	1547.1	1749.5	2050.6	2159.7	2029.8
75°	571.0	586.7	680.1	815.1	918.9	991.5	1048.6	1282.3	1562.7	1625.0	1562.7
77.5°	394.5	410.2	472.4	576.3	586.7	633.4	654.1	763.1	934.4	1012.3	970.9
80°	223.2	223.2	254.4	295.9	363.4	425.7	436.1	524.4	602.2	654.1	664.5
82.5°	103.9	109.0	135.0	181.7	238.8	295.9	306.3	363.4	420.5	472.4	488.0
85°	51.9	57.1	77.9	109.0	145.3	176.5	171.3	176.5	186.9	176.5	181.7
87.5°	15.6	15.6	20.8	26.0	20.8	26.0	26.0	31.1	36.3	41.5	46.8
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: P651092

CATALOG NUMBER: GALN-SA8C-840-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8176.6	8176.6	8176.6	8176.6	8176.6	8176.6	8176.6	8176.6	8176.6	8176.6	8176.6
2.5°	8223.3	8238.9	8135.1	8233.7	8197.4	8192.2	8264.8	8254.5	8280.5	8270.1	8207.7
5°	8228.5	8192.2	8301.2	8202.6	8249.3	8347.9	8280.5	8436.2	8358.3	8410.3	8296.0
7.5°	8389.5	8399.8	8379.1	8420.6	8399.8	8446.6	8410.3	8446.6	8384.3	8389.5	8493.3
10°	8529.7	8498.5	8534.8	8482.9	8519.2	8503.7	8420.6	8394.7	8415.4	8389.5	8456.9
12.5°	8789.2	8732.1	8706.1	8643.9	8602.3	8446.6	8316.8	8244.1	8342.7	8358.3	8327.2
15°	9054.0	9059.2	8939.7	8799.6	8540.0	8306.4	8337.6	8363.5	8363.5	8405.0	8327.2
17.5°	9220.1	9220.1	9111.1	8830.8	8566.0	8431.0	8399.8	8316.8	8244.1	8233.7	8228.5
20°	9510.9	9422.6	9173.4	8825.5	8555.6	8493.3	8259.7	8062.4	7911.9	7859.9	7854.8
22.5°	9843.1	9619.9	9272.0	8836.0	8540.0	8451.8	8015.7	7719.8	7449.8	7335.6	7351.2
25°	10149.4	9791.2	9329.1	8789.2	8482.9	8057.2	7569.2	7159.1	6878.7	6785.3	6738.6
27.5°	10362.2	9972.9	9329.1	8830.8	8270.1	7615.9	7117.6	6593.2	6349.2	6286.9	6297.3
30°	10647.7	10201.3	9490.1	8742.4	7844.3	7044.9	6447.9	6105.2	5959.8	5907.9	5944.3
32.5°	11317.5	10798.4	9713.3	8529.7	7340.8	6473.8	5991.0	5798.9	5586.1	5482.2	5445.9
35°	12044.3	11364.2	9931.4	8171.4	6774.9	5954.6	5653.5	5477.0	5222.6	5108.4	5129.2
37.5°	13072.2	12091.0	9946.9	7579.6	6162.3	5664.0	5388.8	5113.6	4906.0	4729.4	4677.6
40°	14458.3	13082.6	9910.6	6956.6	5669.1	5321.3	5118.8	4776.2	4542.6	4417.9	4443.9
42.5°	15678.3	14245.4	9760.1	6250.6	5222.6	5087.7	4859.2	4521.8	4293.4	4163.6	4153.2
45°	16706.2	15102.1	9474.5	5648.3	4848.9	4828.1	4563.4	4303.7	4122.1	4002.7	4054.5
47.5°	17656.3	15792.6	9043.6	5046.2	4506.2	4547.8	4293.4	4132.4	4018.2	3909.2	3904.0
50°	17998.9	15782.2	8664.7	4547.8	4231.1	4210.3	4200.0	4028.6	3909.2	3815.8	3857.2
52.5°	18570.0	15958.6	8254.5	4205.1	3981.9	3987.1	4023.4	3898.8	3763.8	3706.7	3758.7
55°	19390.3	15984.6	7351.2	3805.4	3774.2	3810.6	3810.6	3727.5	3613.3	3566.6	3540.6
56°	18720.6	15211.1	6593.2	3701.6	3670.4	3670.4	3769.0	3675.6	3535.4	3499.1	3467.9
57.5°	17266.9	13326.6	5518.6	3576.9	3530.2	3602.9	3654.8	3556.2	3426.4	3374.5	3405.6
60°	11909.3	9017.6	4148.0	3307.0	3307.0	3426.4	3467.9	3322.5	3265.4	3260.3	3218.8
62.5°	6951.5	5253.8	3244.7	3063.0	3073.4	3172.0	3203.1	3120.1	3047.4	3135.7	3177.2
65°	3685.9	3135.7	2782.6	2803.4	2808.6	2886.5	3021.5	3016.2	3011.0	3037.0	3042.2
67.5°	2668.4	2606.2	2528.3	2507.5	2517.9	2575.0	2710.0	2813.8	2808.6	2746.3	2699.6
70°	2377.7	2289.5	2242.7	2247.9	2206.4	2273.9	2382.9	2450.4	2331.0	2258.3	2227.1
72.5°	1977.9	1952.0	1920.8	1926.1	1843.0	1827.4	1702.8	1702.8	1671.7	1650.9	1687.2
75°	1510.7	1500.3	1515.9	1490.0	1401.7	1308.3	1235.6	1168.1	1064.3	1022.7	1002.0
77.5°	955.2	986.4	1022.7	965.6	929.3	861.8	789.1	721.6	638.6	591.8	591.8
80°	648.9	674.9	700.9	690.5	648.9	586.7	529.5	456.8	399.7	363.4	358.2
82.5°	493.2	513.9	550.3	508.8	467.3	415.3	368.6	316.7	264.7	223.2	223.2
85°	176.5	202.4	223.2	244.0	259.6	264.7	228.4	186.9	150.5	119.4	114.2
87.5°	46.8	51.9	57.1	51.9	51.9	51.9	57.1	51.9	46.8	36.3	36.3
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)