

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: P459130

Luminaire Tested: **GALN-SA6B-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26001 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

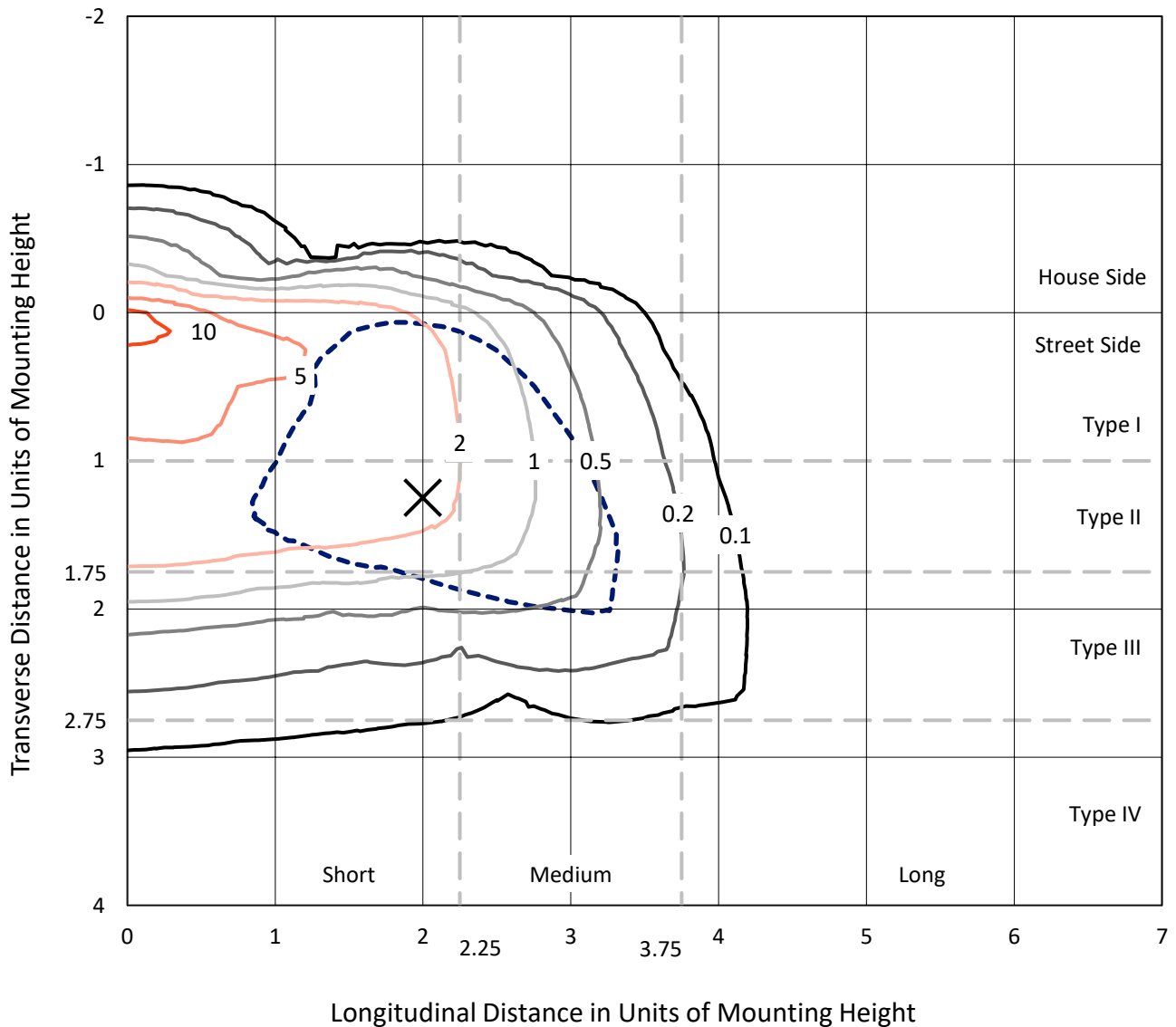
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

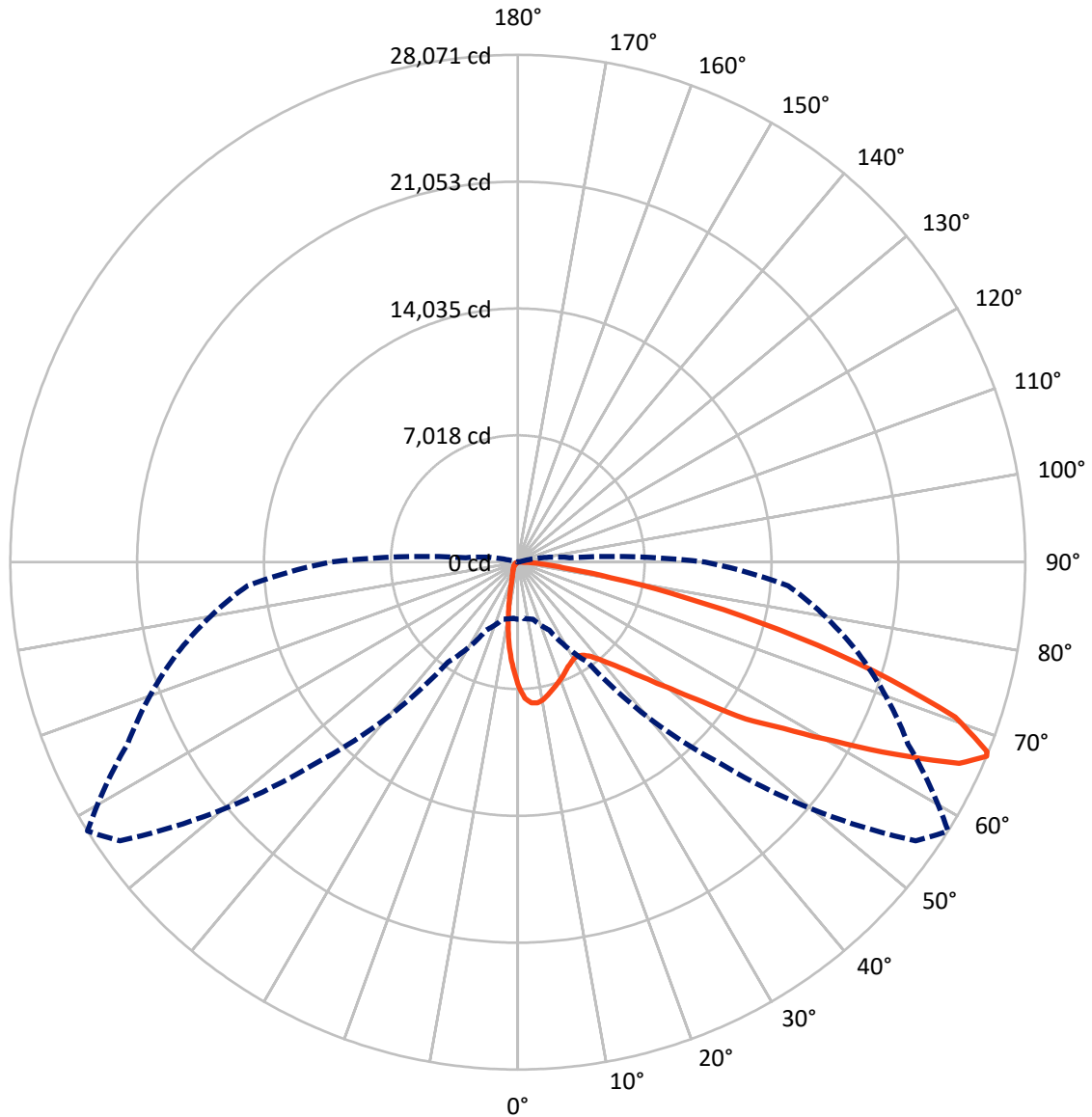
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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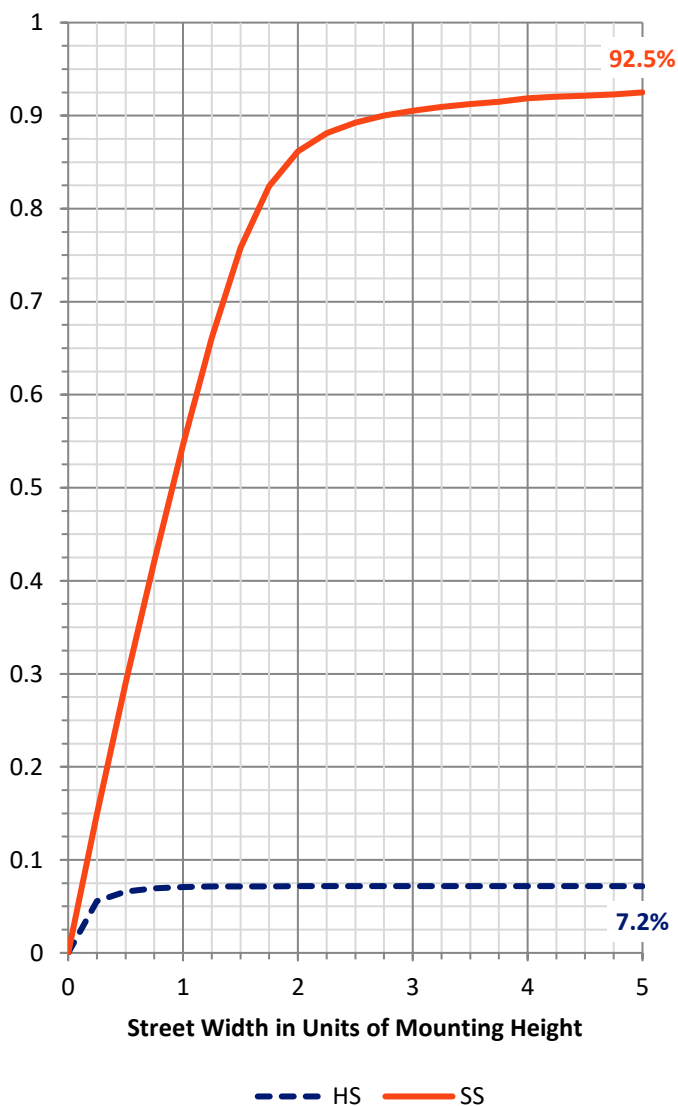
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1876.4	0.0	1876.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	24124.6	0.0	24124.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	26001.0	0.0	26001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.3	2.2
10°-20°	1208.0	4.6
20°-30°	1636.9	6.3
30°-40°	2270.3	8.7
40°-50°	3620.9	13.9
50°-60°	6259.0	24.1
60°-70°	7149.7	27.5
70°-80°	2980.8	11.5
80°-90°	316.0	1.2
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°	26001.0	100.0
0°-180°	26001.0	100.0

Coefficient of Utilization

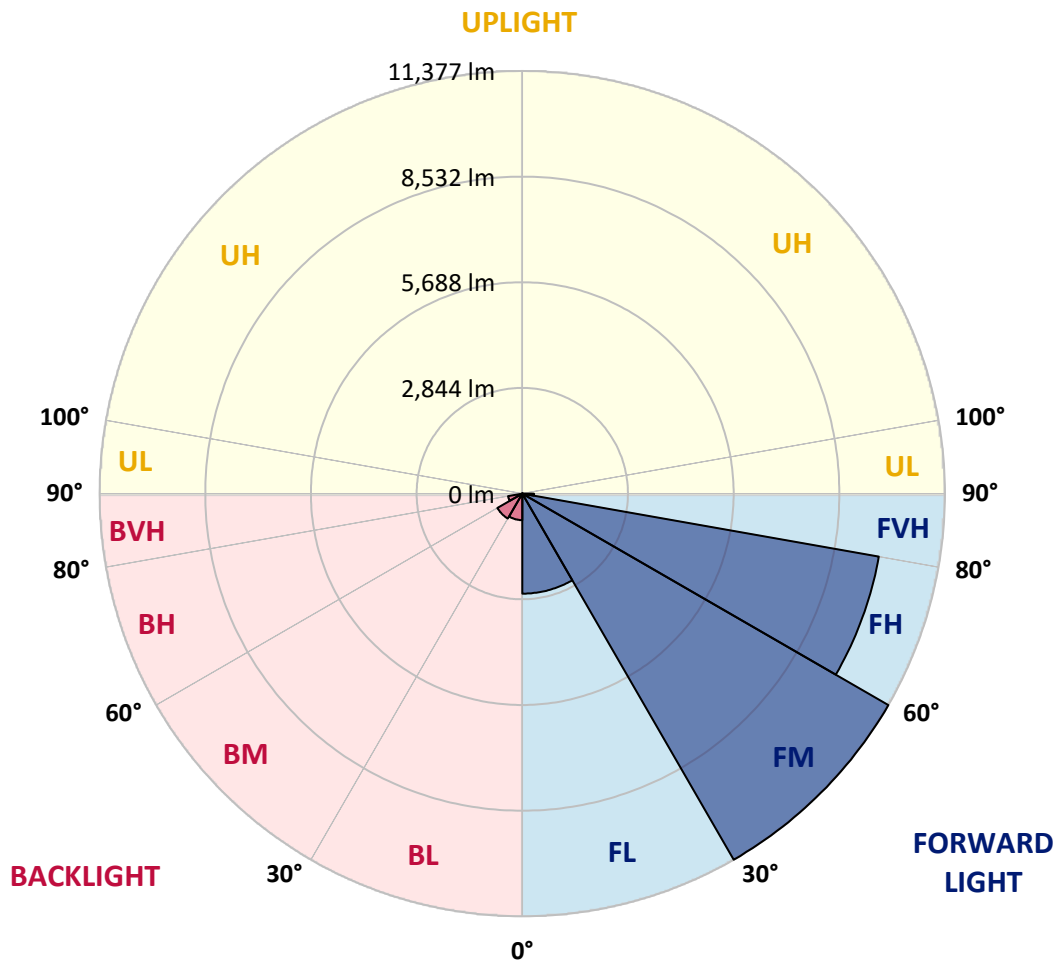


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2691.7	10.4			
FM (30°-60°)	11376.5	43.8			
FH (60°-80°)	9742.6	37.5			G4/12000
FVH (80°-90°)	313.8	1.2			G3/500
BL (0°-30°)	712.5	2.7	B2/1000		
BM (30°-60°)	773.7	3.0	B1/1000		
BH (60°-80°)	387.9	1.5	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6892.6	6892.6	6892.6	6892.6	6892.6	6892.6	6892.6	6892.6	6892.6	6892.6	6892.6
2.5°	7999.4	8011.6	7966.4	7929.9	7836.1	7735.3	7601.5	7530.3	7408.7	7198.4	6965.6
5°	8187.1	8202.7	8195.7	8187.1	8150.6	8053.3	7883.0	7820.4	7641.5	7299.2	6878.7
7.5°	7770.1	7827.4	7834.3	7902.1	7966.4	7975.1	7910.8	7863.9	7698.8	7297.5	6724.1
10°	7217.5	7255.8	7311.4	7389.5	7544.2	7672.8	7735.3	7728.4	7632.8	7243.6	6543.4
12.5°	6659.8	6680.7	6765.8	6899.6	7089.0	7307.9	7474.7	7507.7	7509.4	7179.3	6392.2
15°	6180.3	6171.6	6237.6	6392.2	6658.1	6932.6	7231.4	7283.6	7367.0	7116.8	6251.5
17.5°	5770.2	5815.4	5825.8	5996.1	6241.1	6597.3	6977.8	7069.9	7236.6	7062.9	6135.1
20°	5516.5	5540.9	5563.4	5659.0	5879.7	6255.0	6739.7	6866.6	7115.0	7014.3	6004.8
22.5°	5441.8	5457.5	5438.3	5467.9	5624.3	5957.9	6480.8	6649.4	6998.6	6969.1	5898.8
25°	5499.2	5514.8	5469.6	5434.9	5488.7	5716.3	6230.6	6435.7	6904.8	6960.4	5818.9
27.5°	5638.2	5667.7	5605.1	5542.6	5511.3	5586.0	6034.3	6272.3	6840.5	7002.1	5782.4
30°	5855.3	5872.7	5825.8	5749.4	5678.1	5603.4	5931.8	6159.4	6823.1	7099.4	5778.9
32.5°	6091.6	6128.1	6102.1	6051.7	5959.6	5782.4	5961.3	6162.9	6864.8	7240.1	5822.3
35°	6383.5	6425.2	6449.6	6439.1	6321.0	6100.3	6149.0	6319.3	6976.0	7499.0	5940.5
37.5°	6670.2	6706.7	6844.0	6890.9	6786.6	6578.1	6513.9	6626.8	7221.0	7837.8	6154.2
40°	6998.6	7047.3	7240.1	7419.1	7368.7	7149.8	7031.6	7125.5	7596.3	8348.6	6559.0
42.5°	7313.1	7400.0	7693.6	8009.8	8056.7	7811.8	7733.6	7764.8	8152.3	9083.6	7123.7
45°	7759.6	7841.3	8220.1	8649.2	8869.9	8678.8	8598.8	8593.6	8915.1	10117.4	8039.4
47.5°	8404.2	8477.2	8923.8	9347.7	9740.4	9766.4	9615.3	9667.4	9874.2	11326.7	9161.8
50°	9194.8	9366.8	9660.4	10101.8	10626.5	11050.4	11097.4	11027.9	11205.1	12727.1	10510.1
52.5°	10343.3	10409.3	10678.6	11041.8	11656.8	12376.1	12933.9	12838.3	12782.7	14061.5	11872.3
55°	11199.9	11288.5	11707.2	12205.9	13107.6	14056.3	15265.6	15298.6	14596.7	15343.8	13204.9
57.5°	10941.0	11076.5	11710.7	12713.2	14695.7	16429.7	17329.7	17352.3	16275.1	16589.6	14709.6
60°	9611.8	9676.1	10584.8	11922.7	14831.2	19001.2	20257.4	20075.0	17983.0	17983.0	16038.8
62.5°	6816.2	6917.0	7653.6	9622.2	13394.3	19894.3	23763.7	23386.6	20335.6	19315.7	16831.1
65°	4355.9	4258.6	4746.8	6074.3	9978.4	18575.5	26816.4	26839.0	22549.2	19849.1	16398.4
67°	3155.3	3117.1	3257.8	4152.6	6765.8	15614.8	26880.7	28070.9	23821.0	19512.0	15015.4
67.5°	2886.0	2915.5	3018.0	3746.0	6147.2	14209.2	26588.8	27997.9	24107.7	19308.7	14515.0
70°	2187.5	2137.1	2248.3	2649.7	3685.2	8963.7	22872.3	25678.4	23751.5	17291.5	11597.8
72.5°	1608.9	1603.7	1758.3	2166.7	2837.3	4774.6	17169.9	20589.3	19404.3	13166.7	7302.7
75°	1085.9	1134.6	1381.3	1810.5	2571.5	3096.2	11705.5	14937.2	13470.8	7476.4	2985.0
77.5°	618.5	622.0	889.6	1454.3	2309.1	2491.6	6936.1	9516.2	7130.7	2486.3	886.1
80°	267.6	293.6	441.3	1056.4	1914.7	2206.6	3977.1	5229.8	2884.2	526.5	286.7
82.5°	99.0	116.4	194.6	649.8	1396.9	1817.4	2402.9	2496.8	978.2	185.9	179.0
85°	0.0	3.5	71.2	304.1	728.0	811.4	1605.4	1480.3	432.6	88.6	116.4
87.5°	0.0	0.0	0.0	31.3	95.6	302.3	498.7	556.0	104.2	31.3	27.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6892.6	6892.6	6892.6	6892.6	6892.6	6892.6	6892.6	6892.6	6892.6	6892.6	6892.6
2.5°	6840.5	6727.6	6444.4	6161.1	5950.9	5775.4	5511.3	5367.1	5290.7	5177.7	5184.7
5°	6668.5	6439.1	5940.5	5424.4	5007.4	4600.9	4114.4	3918.0	3753.0	3659.2	3596.6
7.5°	6413.1	6074.3	5335.8	4647.8	4006.7	3296.0	2762.6	2406.4	2166.7	2078.0	1992.9
10°	6133.3	5683.3	4722.5	3768.6	2879.0	2145.8	1694.1	1367.4	1251.0	1143.3	1153.7
12.5°	5874.5	5327.1	4159.6	2974.6	2017.2	1363.9	1063.3	929.6	891.3	879.2	879.2
15°	5662.5	4986.6	3554.9	2236.2	1383.0	979.9	851.4	814.9	801.0	797.5	797.5
17.5°	5436.6	4663.4	3009.3	1652.4	1006.0	820.1	776.7	752.3	747.1	743.6	743.6
20°	5235.1	4338.5	2491.6	1230.1	813.1	738.4	710.6	695.0	689.8	686.3	688.0
22.5°	5043.9	4050.1	2005.1	929.6	715.8	672.4	644.6	629.0	618.5	609.9	611.6
25°	4873.7	3772.1	1612.4	761.0	644.6	606.4	578.6	556.0	533.4	523.0	521.2
27.5°	4753.8	3528.8	1256.2	651.6	580.3	538.6	503.9	476.1	446.5	430.9	427.4
30°	4654.7	3282.1	993.8	575.1	516.0	476.1	432.6	392.7	361.4	345.8	338.8
32.5°	4590.5	3047.6	783.6	512.6	462.2	413.5	364.9	324.9	290.2	274.5	271.0
35°	4580.0	2851.2	641.1	460.4	413.5	361.4	311.0	267.6	238.0	222.4	218.9
37.5°	4654.7	2700.1	536.9	418.7	373.6	316.2	260.6	220.7	194.6	182.4	180.7
40°	4854.5	2604.5	465.6	384.0	337.1	274.5	222.4	187.6	161.6	149.4	149.4
42.5°	5235.1	2608.0	418.7	351.0	300.6	234.6	189.4	156.4	133.8	123.4	119.9
45°	5829.3	2726.1	378.8	318.0	265.8	203.3	161.6	128.6	106.0	97.3	97.3
47.5°	6625.1	2960.7	344.0	284.9	234.6	173.7	137.3	104.2	85.1	76.4	76.4
50°	7665.8	3337.7	314.5	257.1	208.5	149.4	111.2	85.1	66.0	59.1	57.3
52.5°	8753.5	3803.4	279.7	232.8	179.0	126.8	90.3	66.0	50.4	45.2	43.4
55°	9954.1	4258.6	246.7	208.5	145.9	106.0	71.2	52.1	36.5	31.3	31.3
57.5°	11165.1	4705.1	206.8	173.7	114.7	78.2	55.6	38.2	24.3	19.1	19.1
60°	12190.2	4849.3	175.5	140.7	86.9	55.6	40.0	24.3	13.9	8.7	8.7
62.5°	12331.0	4362.8	147.7	107.7	62.5	38.2	20.8	13.9	5.2	3.5	3.5
65°	11566.5	3544.5	123.4	81.7	41.7	19.1	8.7	5.2	1.7	0.0	0.0
67°	10364.1	2873.8	100.8	60.8	29.5	12.2	5.2	1.7	0.0	0.0	0.0
67.5°	10056.6	2740.0	97.3	57.3	26.1	10.4	3.5	1.7	0.0	0.0	0.0
70°	7891.7	2052.0	69.5	34.7	15.6	6.9	0.0	0.0	0.0	0.0	0.0
72.5°	4904.9	1160.6	50.4	20.8	10.4	3.5	0.0	0.0	0.0	0.0	0.0
75°	1853.9	406.6	34.7	13.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	576.8	154.6	20.8	10.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	194.6	59.1	13.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	119.9	24.3	8.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	74.7	10.4	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	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)