

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: P456522

Luminaire Tested: **GALN-SA7D-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44322 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

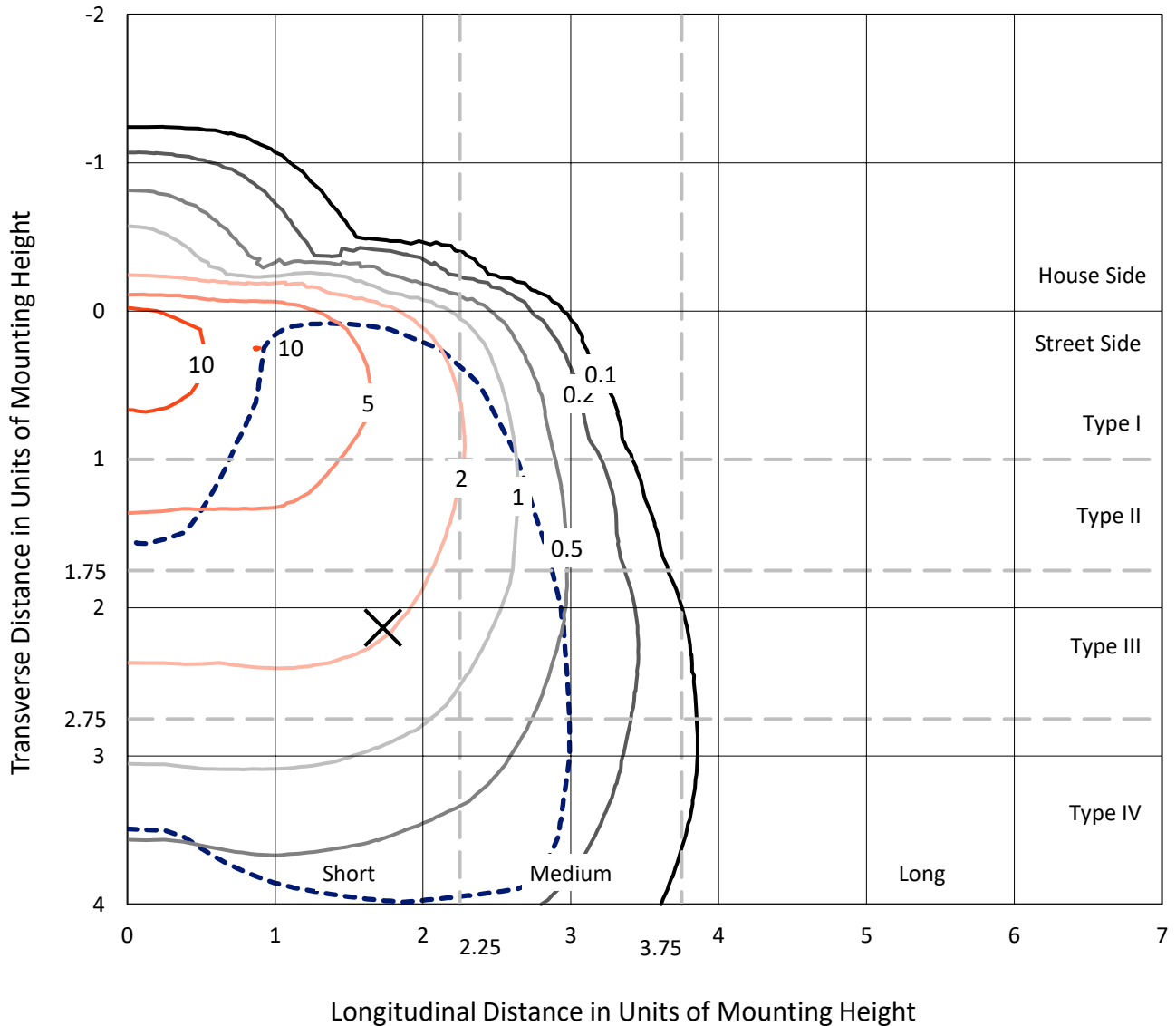
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

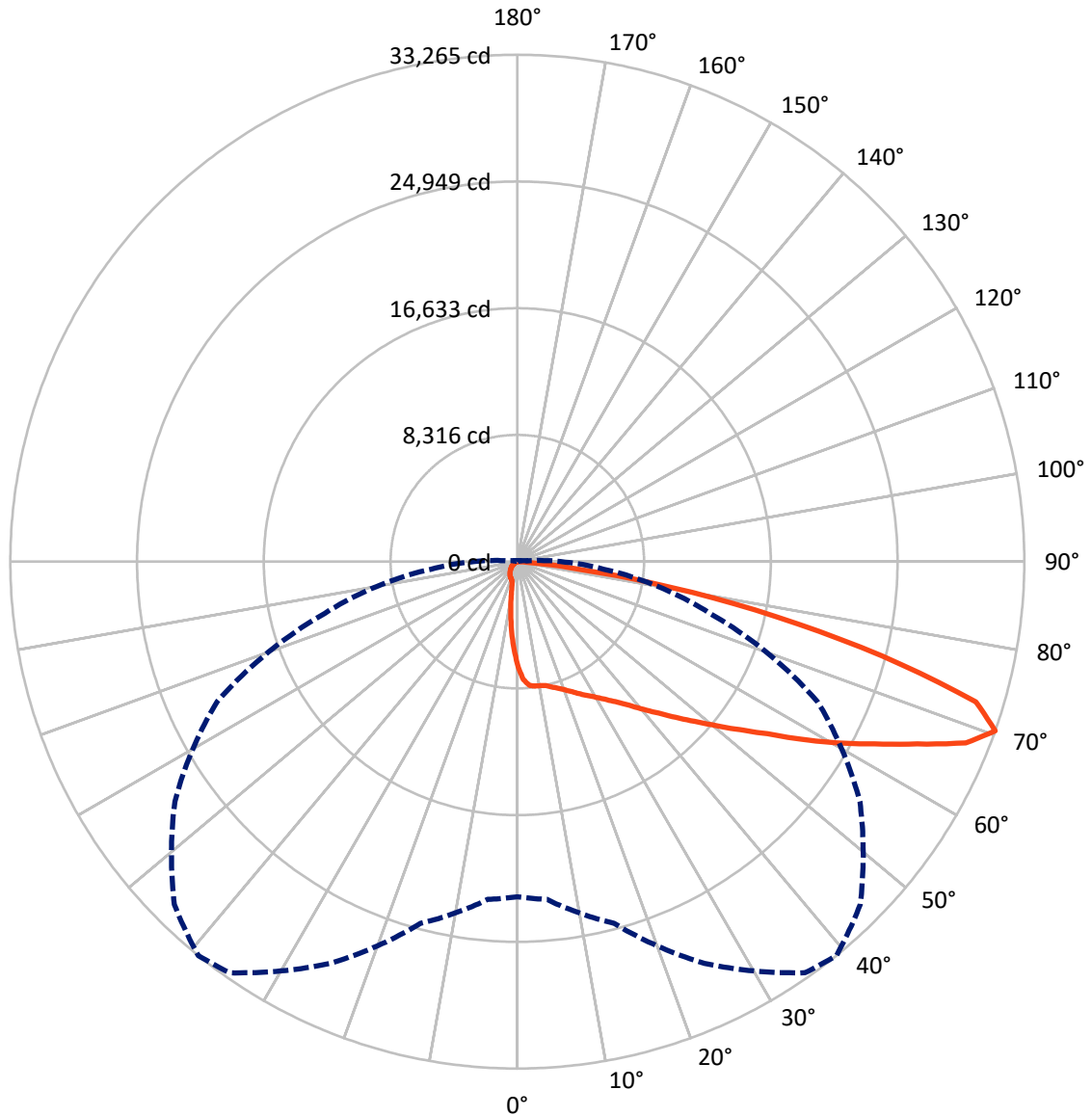
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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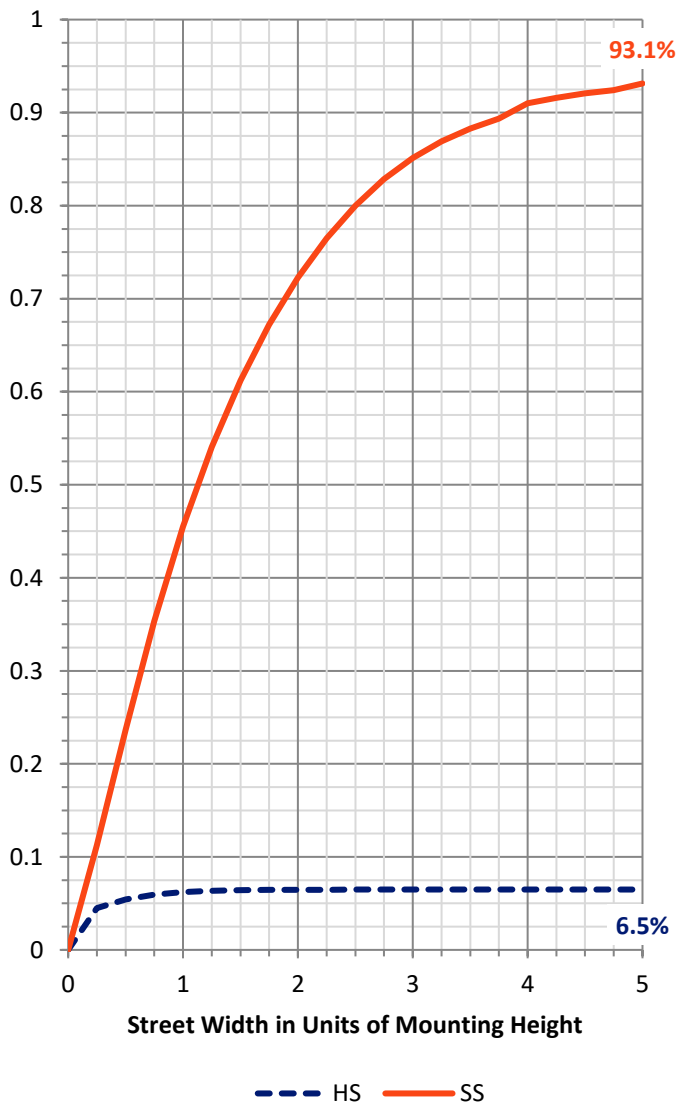
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2890.0	0.0	2890.0
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	41432.0	0.0	41432.0
	% Fixture	93.5	0.0	93.5
Total	Lumens	44322.0	0.0	44322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.9	1.3
10°-20°	1532.9	3.5
20°-30°	2568.0	5.8
30°-40°	3982.7	9.0
40°-50°	6311.3	14.2
50°-60°	9251.5	20.9
60°-70°	11858.2	26.8
70°-80°	7451.3	16.8
80°-90°	776.3	1.8
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°	44322.0	100.0
0°-180°	44322.0	100.0

Coefficient of Utilization



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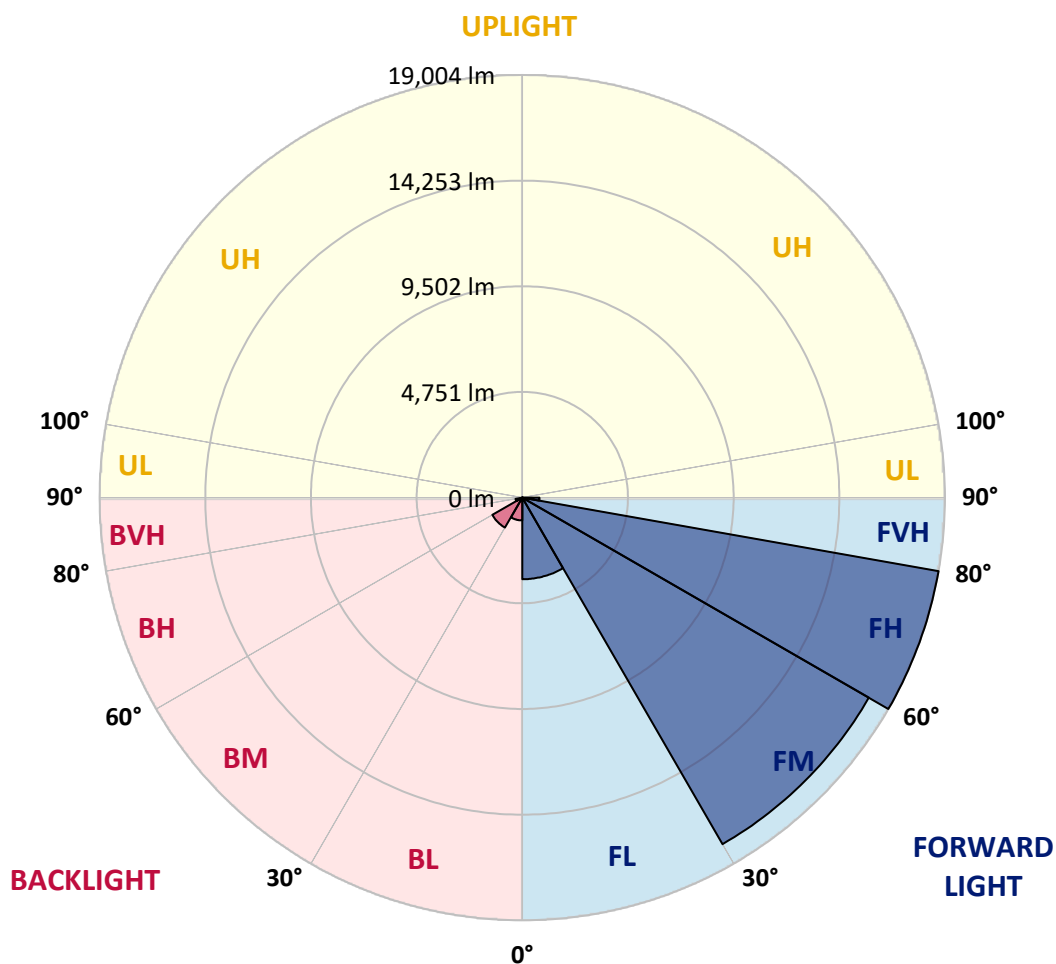
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3667.4	8.3			
FM (30°-60°)	17990.2	40.6			
FH (60°-80°)	19003.8	42.9			G5
FVH (80°-90°)	770.5	1.7			G5
BL (0°-30°)	1023.3	2.3	B3/2500		
BM (30°-60°)	1555.3	3.5	B2/2500		
BH (60°-80°)	305.6	0.7	B1/500		G1/500
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6915.8	6915.8	6915.8	6915.8	6915.8	6915.8	6915.8	6915.8	6915.8	6915.8	6915.8
2.5°	7990.9	7964.1	7928.4	7886.7	7767.6	7746.7	7675.2	7523.3	7341.7	7192.7	6987.2
5°	8369.2	8384.1	8357.3	8282.8	8196.4	8145.8	8056.5	7821.2	7585.9	7285.1	6948.5
7.5°	8455.6	8485.3	8452.6	8381.1	8297.7	8244.1	8172.6	7970.1	7696.1	7353.6	6891.9
10°	8446.6	8482.4	8461.5	8396.0	8327.5	8276.9	8199.4	8038.6	7818.2	7457.8	6909.8
12.5°	8431.7	8479.4	8476.4	8443.7	8387.1	8348.3	8300.7	8157.7	7952.2	7609.7	7008.1
15°	8390.0	8449.6	8503.2	8530.0	8533.0	8533.0	8473.4	8321.5	8125.0	7809.3	7136.2
17.5°	8407.9	8476.4	8610.4	8687.9	8741.5	8735.5	8673.0	8509.2	8291.8	8014.8	7270.2
20°	8518.1	8610.4	8798.1	8953.0	9006.6	8988.7	8905.3	8714.7	8467.5	8190.5	7401.2
22.5°	8789.1	8872.5	9107.8	9289.5	9328.2	9280.6	9161.4	8902.3	8678.9	8381.1	7559.1
25°	9194.2	9292.5	9509.9	9646.9	9646.9	9620.1	9453.3	9149.5	8917.2	8646.2	7764.6
27.5°	9685.6	9769.0	9983.5	10105.6	10034.1	9956.7	9789.9	9423.5	9200.2	8979.8	8011.8
30°	10183.0	10236.6	10463.0	10516.6	10442.1	10343.8	10165.1	9798.8	9602.2	9432.5	8369.2
32.5°	10653.6	10769.8	10957.4	10945.5	10844.2	10796.6	10632.7	10242.6	10132.4	10114.5	8869.6
35°	11124.2	11213.5	11380.3	11422.0	11332.7	11323.7	11204.6	10915.7	10918.7	11034.8	9649.9
37.5°	11529.2	11609.6	11806.2	11898.5	11916.4	11961.1	11913.4	11722.8	11993.9	12312.5	10683.4
40°	11868.8	11981.9	12232.1	12393.0	12577.6	12741.4	12750.4	12792.1	13337.1	13885.1	12032.6
42.5°	12133.8	12291.7	12655.1	12952.9	13375.8	13584.3	13751.1	13980.4	14897.8	15716.8	13623.0
45°	12479.3	12661.0	13113.7	13581.3	14242.5	14585.0	14817.3	15430.9	16732.4	17849.3	15255.2
47.5°	13051.2	13146.5	13608.1	14290.2	15159.9	15648.3	16101.0	17030.3	18701.1	19701.9	16613.3
50°	13786.8	13849.4	14197.8	15145.0	16270.8	16914.1	17739.1	18832.2	20744.3	21238.7	17381.7
52.5°	14599.9	14620.8	14882.9	16086.1	17515.7	18325.9	19249.1	20598.3	22409.2	22334.7	17891.0
55°	15544.1	15514.3	15737.7	17107.7	18990.0	19916.3	20991.5	22406.2	23853.7	23112.1	18182.9
57.5°	16625.2	16544.8	16762.2	18462.9	20878.3	21986.3	23079.3	23966.9	24973.5	23764.3	18322.9
60°	17757.0	17596.2	17855.3	19984.8	23103.1	24154.5	25062.9	25301.2	26153.0	24282.6	18081.6
62.5°	18659.4	18662.4	19144.9	21605.0	25390.5	26310.8	26793.3	27007.8	27168.6	24169.4	16812.8
65°	20068.2	20115.8	20887.2	23853.7	28038.3	28836.5	29167.1	28470.1	27213.3	22763.6	14906.7
67.5°	21521.6	21673.5	23085.3	26951.2	31097.1	31740.4	31314.5	28753.1	25998.1	19555.9	11302.9
70°	21995.2	22245.4	24571.5	29083.7	32931.7	33265.3	31823.8	27433.7	21733.1	13075.0	5688.7
72.5°	20154.6	20559.6	23716.7	28306.3	31761.2	31472.3	28473.1	23007.8	13816.6	4964.9	1736.4
75°	14212.7	14391.4	19710.8	23481.4	25545.4	24726.3	21658.6	14832.2	5682.7	1393.9	595.7
77.5°	7338.7	7252.3	11722.8	15579.8	18218.6	17369.8	14183.0	7678.2	2153.4	580.8	369.3
80°	3794.4	3857.0	5072.1	8163.7	11121.2	10233.6	7562.1	3559.1	1146.7	321.7	282.9
82.5°	2126.5	1995.5	2915.8	3565.1	5200.2	4077.4	2900.9	2519.7	500.4	193.6	268.1
85°	387.2	405.1	1599.4	1927.0	1804.9	1146.7	935.2	1682.8	145.9	107.2	187.6
87.5°	6.0	6.0	309.7	554.0	351.4	160.8	294.9	241.2	29.8	41.7	32.8
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°	6915.8	6915.8	6915.8	6915.8	6915.8	6915.8	6915.8	6915.8	6915.8	6915.8	6915.8
2.5°	6883.0	6769.8	6558.3	6349.9	6084.8	5867.4	5721.4	5569.5	5414.7	5426.6	5462.3
5°	6763.9	6567.3	6150.3	5709.5	5286.6	4905.4	4530.1	4193.5	4056.5	3931.4	3937.4
7.5°	6644.7	6367.7	5757.2	5066.2	4425.8	3776.6	3306.0	2918.8	2713.3	2558.4	2513.7
10°	6591.1	6224.8	5396.8	4446.7	3538.3	2829.4	2224.8	1909.1	1664.9	1587.5	1608.3
12.5°	6614.9	6153.3	5072.1	3886.8	2805.6	1971.7	1548.7	1387.9	1334.3	1325.4	1319.4
15°	6659.6	6102.7	4753.5	3267.3	2061.0	1465.4	1301.5	1271.8	1265.8	1259.8	1262.8
17.5°	6719.2	6058.0	4413.9	2686.5	1581.5	1280.7	1233.0	1218.1	1215.2	1215.2	1215.2
20°	6778.7	6007.4	4035.7	2168.2	1319.4	1209.2	1179.4	1170.5	1167.5	1167.5	1164.5
22.5°	6847.2	5962.7	3651.5	1703.6	1215.2	1158.6	1131.8	1125.8	1122.8	1119.9	1119.9
25°	6945.5	5906.1	3243.4	1393.9	1149.6	1110.9	1084.1	1078.2	1075.2	1063.3	1066.3
27.5°	7076.6	5864.4	2823.5	1203.3	1090.1	1051.4	1033.5	1024.6	1018.6	1009.7	1012.6
30°	7255.3	5828.7	2376.7	1099.0	1021.6	988.8	970.9	965.0	959.0	950.1	950.1
32.5°	7565.0	5843.5	1906.2	1015.6	959.0	920.3	902.4	896.5	890.5	881.6	881.6
35°	8029.7	5929.9	1524.9	944.1	884.6	845.9	828.0	828.0	819.0	807.1	804.2
37.5°	8789.1	6150.3	1224.1	875.6	813.1	777.4	756.5	750.5	741.6	723.7	720.8
40°	9685.6	6492.8	1030.5	807.1	747.6	711.8	694.0	676.1	652.3	634.4	631.4
42.5°	10811.4	6844.3	893.5	738.6	685.0	652.3	631.4	601.6	565.9	542.1	539.1
45°	11984.9	7165.9	801.2	676.1	625.5	598.7	574.8	527.2	482.5	452.7	449.7
47.5°	12860.6	7225.5	726.7	616.5	574.8	548.0	515.3	455.7	396.1	369.3	360.4
50°	13274.6	6936.6	649.3	557.0	524.2	494.4	452.7	384.2	318.7	285.9	280.0
52.5°	13420.5	6436.2	586.7	503.3	473.6	437.8	387.2	309.7	250.2	217.4	214.4
55°	13360.9	5804.8	530.1	452.7	414.0	372.3	321.7	247.2	184.7	157.9	151.9
57.5°	13048.2	5000.7	473.6	402.1	354.4	312.7	256.1	184.7	125.1	101.3	98.3
60°	12205.3	3904.6	417.0	345.5	300.8	256.1	202.5	131.0	77.4	56.6	56.6
62.5°	10781.7	2897.9	363.4	288.9	253.2	205.5	143.0	83.4	41.7	29.8	26.8
65°	9009.5	2138.5	303.8	244.2	211.5	160.8	101.3	50.6	20.8	8.9	6.0
67.5°	6287.3	1319.4	253.2	199.6	172.7	116.2	62.5	20.8	8.9	0.0	0.0
70°	2856.2	628.4	193.6	151.9	131.0	83.4	32.8	11.9	6.0	0.0	0.0
72.5°	887.6	330.6	137.0	110.2	89.4	53.6	17.9	8.9	6.0	0.0	0.0
75°	411.0	211.5	86.4	59.6	50.6	26.8	11.9	6.0	3.0	0.0	0.0
77.5°	306.8	163.8	50.6	32.8	26.8	17.9	8.9	6.0	3.0	0.0	0.0
80°	268.1	83.4	29.8	20.8	14.9	11.9	6.0	3.0	0.0	0.0	0.0
82.5°	241.2	41.7	17.9	11.9	8.9	6.0	3.0	3.0	0.0	0.0	0.0
85°	131.0	23.8	11.9	8.9	6.0	3.0	3.0	0.0	0.0	0.0	0.0
87.5°	23.8	11.9	8.9	6.0	6.0	3.0	3.0	3.0	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)