

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: P945580

Luminaire Tested: **GALN-SB1C-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

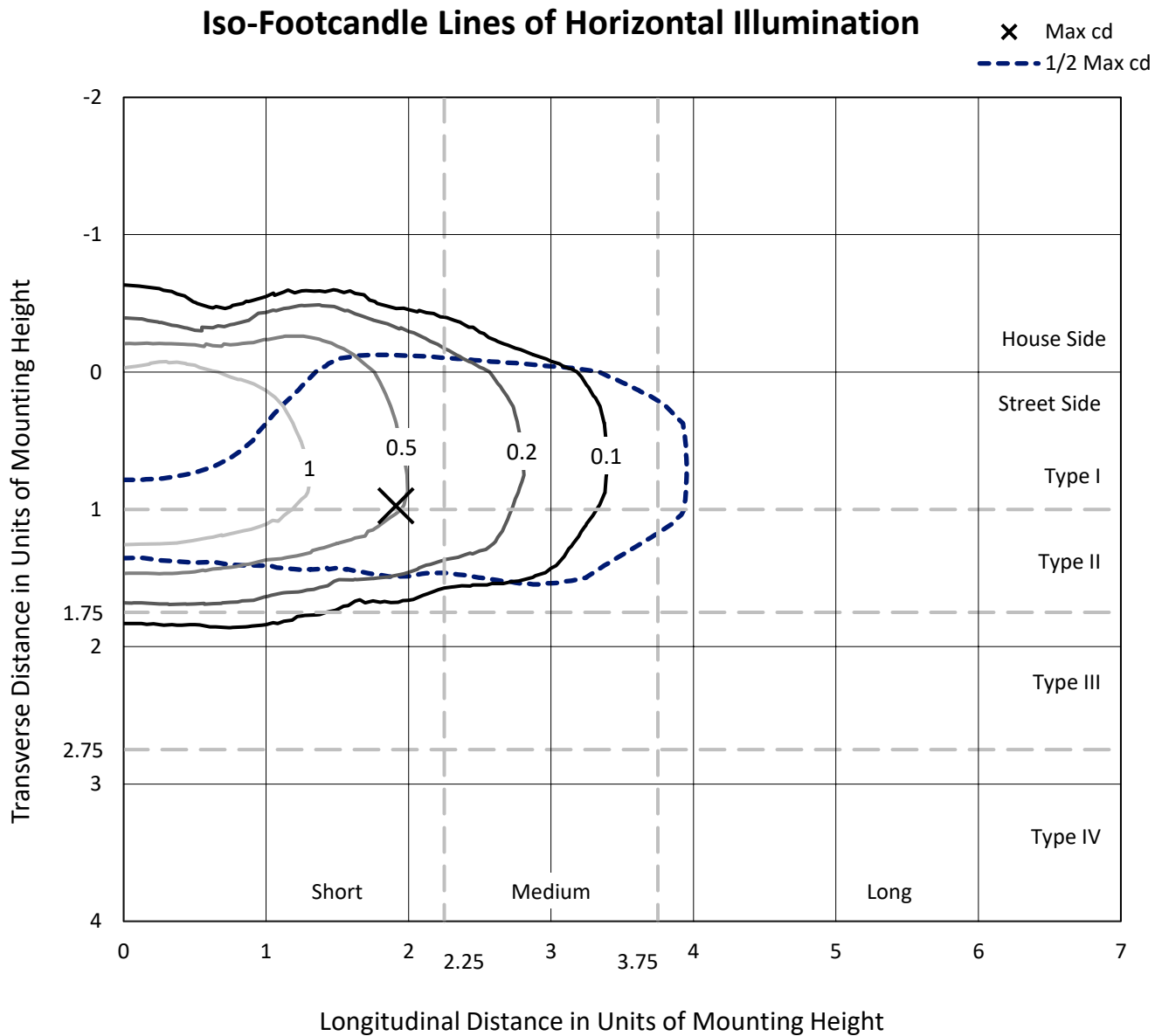
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5310 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 54.4
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



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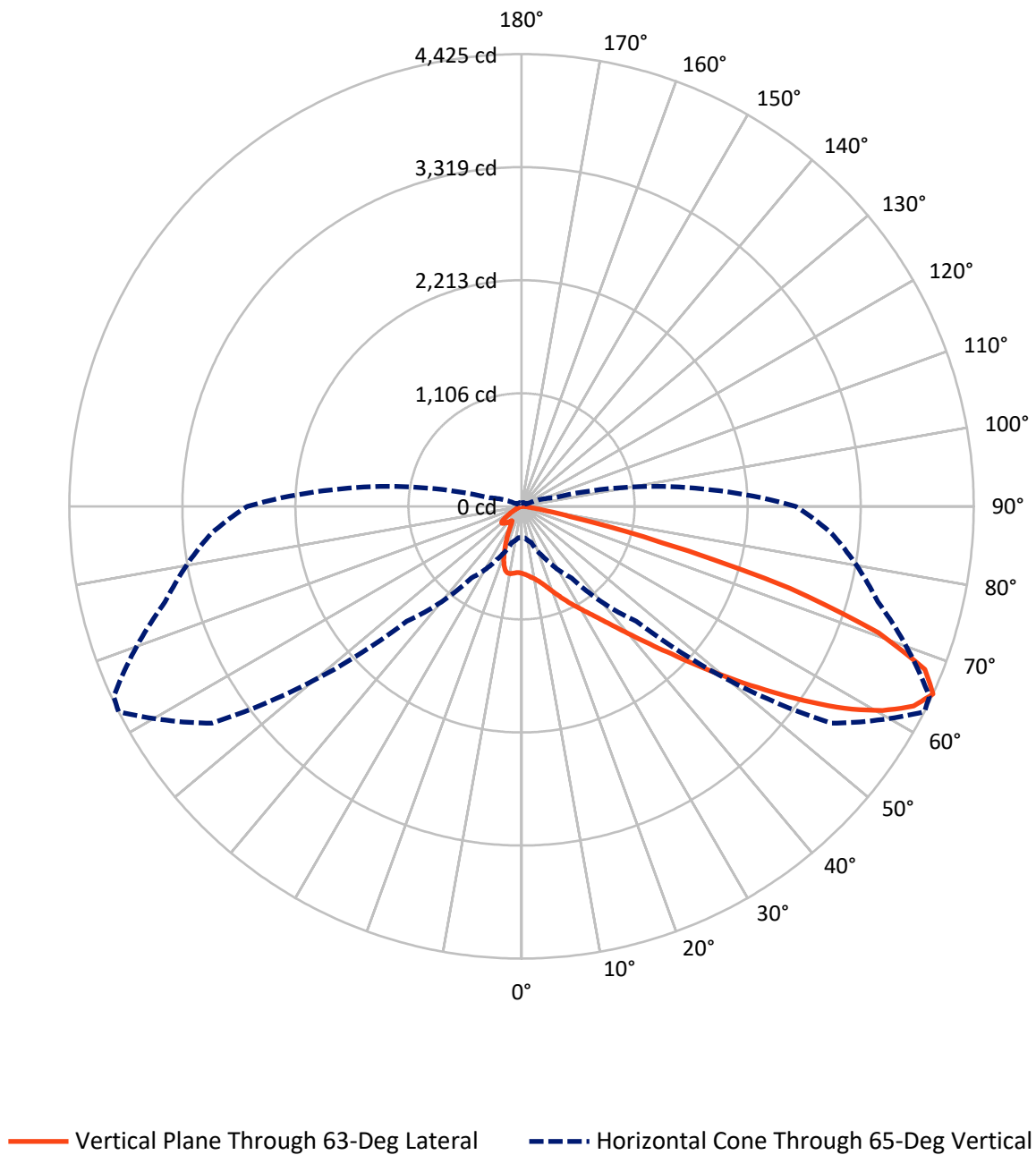


Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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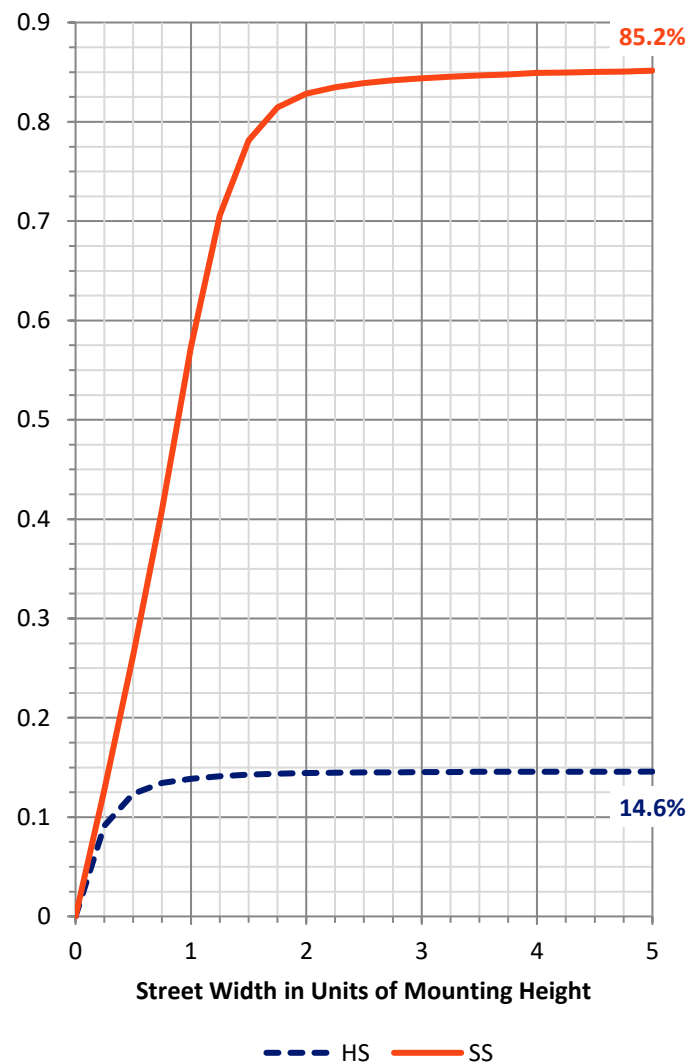
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	780.5	0.0	780.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	4529.5	0.0	4529.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	5310.0	0.0	5310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	1.2
10°-20°	171.3	3.2
20°-30°	298.3	5.6
30°-40°	537.7	10.1
40°-50°	1066.4	20.1
50°-60°	1452.6	27.4
60°-70°	1159.5	21.8
70°-80°	524.7	9.9
80°-90°	37.7	0.7
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°	5310.0	100.0
0°-180°	5310.0	100.0

Coefficient of Utilization



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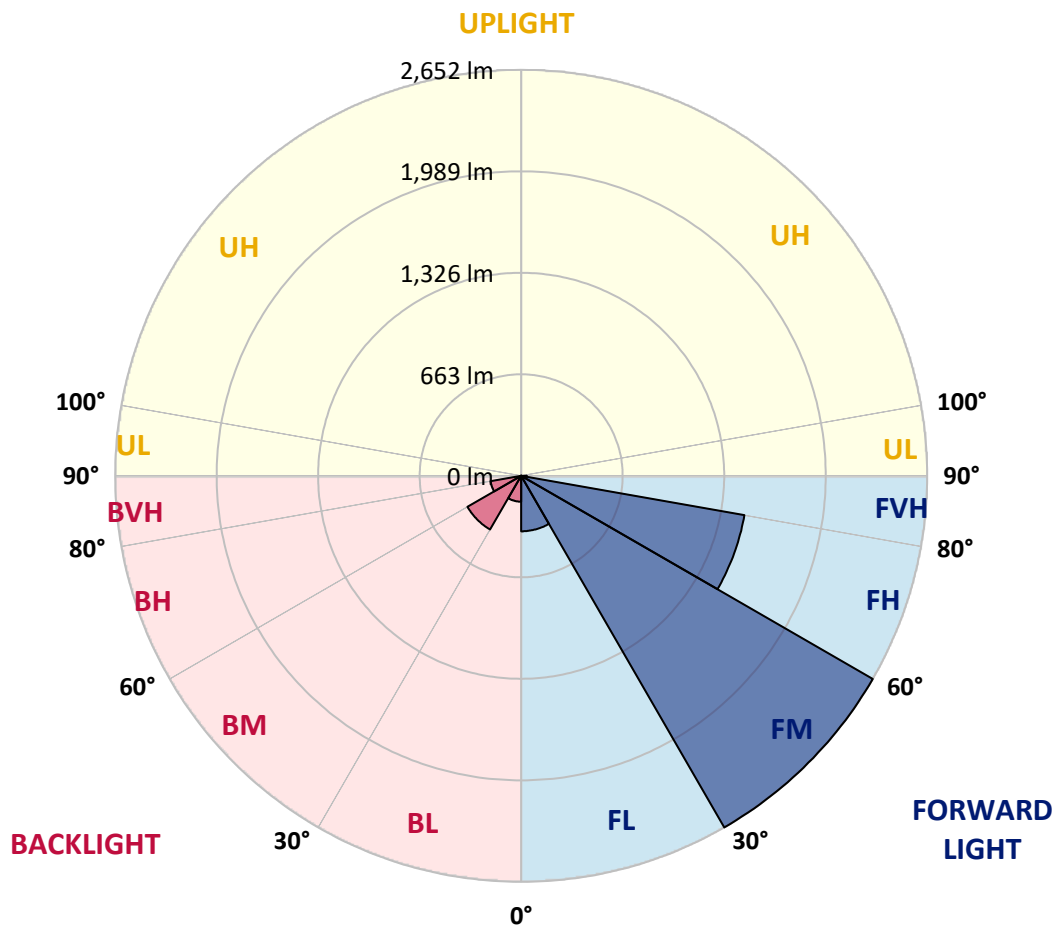
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.5	6.8			
FM	(30°-60°)	2651.7	49.9			
FH	(60°-80°)	1480.4	27.9			G1/1800
FVH	(80°-90°)	34.9	0.7			G1/100
BL	(0°-30°)	168.9	3.2	B1/500		
BM	(30°-60°)	405.0	7.6	B1/1000		
BH	(60°-80°)	203.8	3.8	B1/500		G1/500
BVH	(80°-90°)	2.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4
2.5°	670.7	668.9	671.4	670.3	669.6	668.1	667.4	666.7	665.2	664.1	659.7
5°	672.5	671.4	674.0	676.2	678.4	680.6	681.7	683.1	681.7	678.7	674.4
7.5°	657.2	656.5	661.9	668.5	678.4	686.8	695.9	701.0	701.4	700.3	695.5
10°	656.1	654.3	659.7	667.8	680.6	695.5	711.6	722.6	724.0	728.8	723.7
12.5°	673.3	671.4	679.1	687.9	701.0	716.7	736.5	751.8	754.0	760.6	756.9
15°	702.1	699.6	708.3	719.6	736.5	754.4	775.2	789.1	790.9	798.9	792.3
17.5°	735.7	733.2	743.4	755.4	773.7	798.2	822.3	837.6	839.8	844.9	832.9
20°	778.8	775.5	783.6	794.5	813.9	843.1	872.0	893.9	893.5	893.5	873.8
22.5°	828.9	823.8	830.7	839.5	857.7	893.2	931.5	957.5	957.5	947.2	914.7
25°	882.6	877.5	885.1	893.2	909.2	949.4	994.4	1026.5	1028.0	1010.4	958.6
27.5°	949.8	943.2	949.1	958.6	968.1	1009.0	1062.3	1099.6	1100.3	1073.3	1000.2
30°	1079.1	1060.5	1042.2	1032.0	1036.4	1076.9	1133.9	1175.2	1178.8	1141.6	1045.5
32.5°	1315.8	1312.2	1247.9	1163.9	1120.0	1150.0	1213.9	1263.6	1265.8	1217.9	1104.3
35°	1683.7	1679.3	1575.9	1415.9	1273.1	1247.9	1311.1	1369.9	1368.4	1314.4	1180.7
37.5°	2122.8	2118.8	1982.5	1768.4	1537.2	1395.8	1436.4	1498.1	1507.2	1436.4	1279.3
40°	2497.9	2483.0	2396.8	2190.4	1887.9	1641.3	1614.6	1655.6	1665.1	1581.0	1404.6
42.5°	2782.2	2769.4	2725.5	2596.6	2312.4	2004.4	1824.7	1840.4	1851.0	1750.2	1548.5
45°	2929.4	2926.4	2944.0	2931.9	2744.9	2450.1	2125.0	2059.6	2063.6	1937.6	1711.8
47.5°	2950.2	2948.7	3028.7	3142.0	3116.8	2952.7	2510.4	2332.8	2318.6	2149.1	1889.3
50°	2827.4	2824.5	2978.0	3190.2	3365.2	3375.0	2948.0	2640.8	2609.4	2367.9	2074.6
52.5°	2435.5	2434.7	2686.8	3040.1	3452.5	3744.7	3380.5	2979.0	2926.4	2599.5	2270.4
55°	1874.0	1887.5	2176.5	2594.0	3293.2	3922.6	3768.8	3354.6	3273.8	2832.6	2450.8
57.5°	1327.5	1347.2	1632.9	2004.8	2799.3	3817.4	4031.5	3730.8	3643.9	3064.9	2633.8
60°	713.1	730.6	1016.6	1460.5	2082.6	3425.1	4169.9	4057.4	3975.2	3285.5	2799.0
62.5°	424.8	430.7	549.1	942.8	1408.6	2616.7	4111.1	4306.2	4238.6	3470.7	2942.5
65°	305.0	306.1	365.7	575.7	855.2	1589.8	3698.7	4425.3	4404.5	3610.3	3048.8
67.5°	256.8	256.1	280.9	382.5	582.7	796.4	2834.8	4256.9	4345.3	3698.7	3109.1
70°	220.3	221.4	250.6	280.2	438.0	450.8	1409.3	3706.4	3894.9	3722.1	3105.4
72.5°	164.0	167.7	194.7	255.3	330.6	310.1	486.6	2748.2	3089.0	3506.9	2944.3
75°	115.8	117.6	137.0	214.8	246.6	225.8	248.4	1420.7	1857.6	2688.6	2409.9
77.5°	89.1	92.4	103.7	150.1	242.9	158.5	152.0	491.7	755.4	1624.1	1652.3
80°	48.2	54.1	74.9	108.5	170.6	112.1	75.3	195.8	256.1	759.5	637.1
82.5°	24.8	27.8	52.2	78.2	97.2	97.9	37.3	81.5	105.6	234.5	87.3
85°	9.9	12.1	35.1	43.1	50.0	48.2	16.8	32.9	38.0	65.0	26.7
87.5°	2.2	3.7	12.8	9.9	9.5	10.2	4.0	7.7	7.3	7.7	4.7
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°	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4	655.4
2.5°	659.4	657.9	653.9	649.5	644.4	641.5	639.6	639.3	636.7	634.9	636.7
5°	670.3	668.9	661.2	652.1	642.2	634.5	627.2	620.7	611.2	609.3	608.6
7.5°	692.2	688.2	675.8	663.4	644.8	622.5	595.4	564.4	536.6	528.2	524.2
10°	719.3	713.8	698.1	676.2	634.9	574.3	508.9	448.2	400.0	386.5	381.4
12.5°	750.0	745.2	724.4	683.8	593.6	483.7	383.6	308.3	261.6	249.9	246.6
15°	786.5	779.6	750.7	672.2	519.8	367.5	263.4	218.8	202.0	199.8	197.6
17.5°	825.2	813.9	774.1	630.1	420.5	261.2	203.5	190.7	183.4	181.2	180.1
20°	860.7	846.0	788.0	566.6	314.2	203.5	182.3	173.9	167.3	164.8	163.3
22.5°	896.1	875.3	788.0	480.0	235.6	180.5	167.3	159.6	152.0	148.7	146.9
25°	933.0	905.2	774.1	383.6	189.6	165.5	153.1	144.7	138.1	134.1	132.6
27.5°	968.8	930.4	742.3	292.2	168.8	152.3	139.9	131.9	125.7	122.7	122.7
30°	1002.8	955.3	697.7	221.7	155.3	139.5	127.9	120.9	114.7	111.8	112.1
32.5°	1048.8	986.7	650.2	181.9	143.6	127.5	116.9	110.3	104.8	102.7	102.7
35°	1112.7	1033.1	609.3	178.6	133.7	117.6	107.0	100.8	95.3	93.5	93.5
37.5°	1203.3	1108.0	587.8	200.6	125.7	108.9	99.0	92.4	87.3	85.8	85.5
40°	1315.1	1209.5	599.5	222.5	120.2	101.2	91.7	85.1	80.7	78.9	78.5
42.5°	1447.7	1334.8	664.1	239.3	116.5	94.6	84.8	77.4	74.5	73.8	73.8
45°	1600.0	1472.5	763.1	257.2	110.7	88.4	77.8	72.3	70.1	69.8	69.4
47.5°	1773.2	1623.8	877.8	279.5	104.8	82.6	72.3	68.7	66.9	66.1	66.1
50°	1944.9	1776.1	995.8	291.9	100.1	77.1	67.9	65.0	63.6	63.2	63.2
52.5°	2124.6	1932.8	1091.2	280.2	96.1	72.7	64.3	62.1	60.6	60.3	60.3
55°	2295.9	2059.6	1107.6	237.8	88.0	68.3	60.3	59.2	57.4	57.4	57.0
57.5°	2443.5	2123.1	991.4	174.6	80.0	61.7	56.3	55.2	53.7	53.3	53.0
60°	2579.0	2104.9	765.3	117.6	71.2	55.2	51.1	50.4	49.0	47.1	46.8
62.5°	2655.4	2024.5	523.5	76.7	62.5	48.2	45.3	44.9	41.6	38.0	37.3
65°	2684.2	1859.4	326.6	55.9	52.2	41.3	39.1	38.4	33.6	29.6	29.2
67.5°	2659.0	1587.6	164.8	44.2	41.3	34.3	32.1	32.1	28.9	25.2	24.8
70°	2558.2	1190.2	69.4	35.4	31.8	26.3	26.3	27.8	24.5	20.5	20.1
72.5°	2339.4	800.7	36.9	27.0	23.7	18.6	21.6	22.6	19.4	15.3	15.3
75°	1859.8	488.4	25.6	20.1	15.0	13.2	16.4	17.2	13.2	10.2	9.9
77.5°	1272.0	280.6	17.2	12.8	9.5	7.7	11.3	10.6	6.9	4.7	5.1
80°	558.5	116.9	9.9	5.8	3.7	2.9	4.0	2.9	2.2	1.5	1.5
82.5°	65.4	27.4	3.7	2.2	1.5	0.7	0.4	0.0	0.0	0.0	0.0
85°	13.5	3.3	1.8	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.7	0.4	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)