

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: P949127

Luminaire Tested: **GALN-SB4A-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-722-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12574 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 114
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

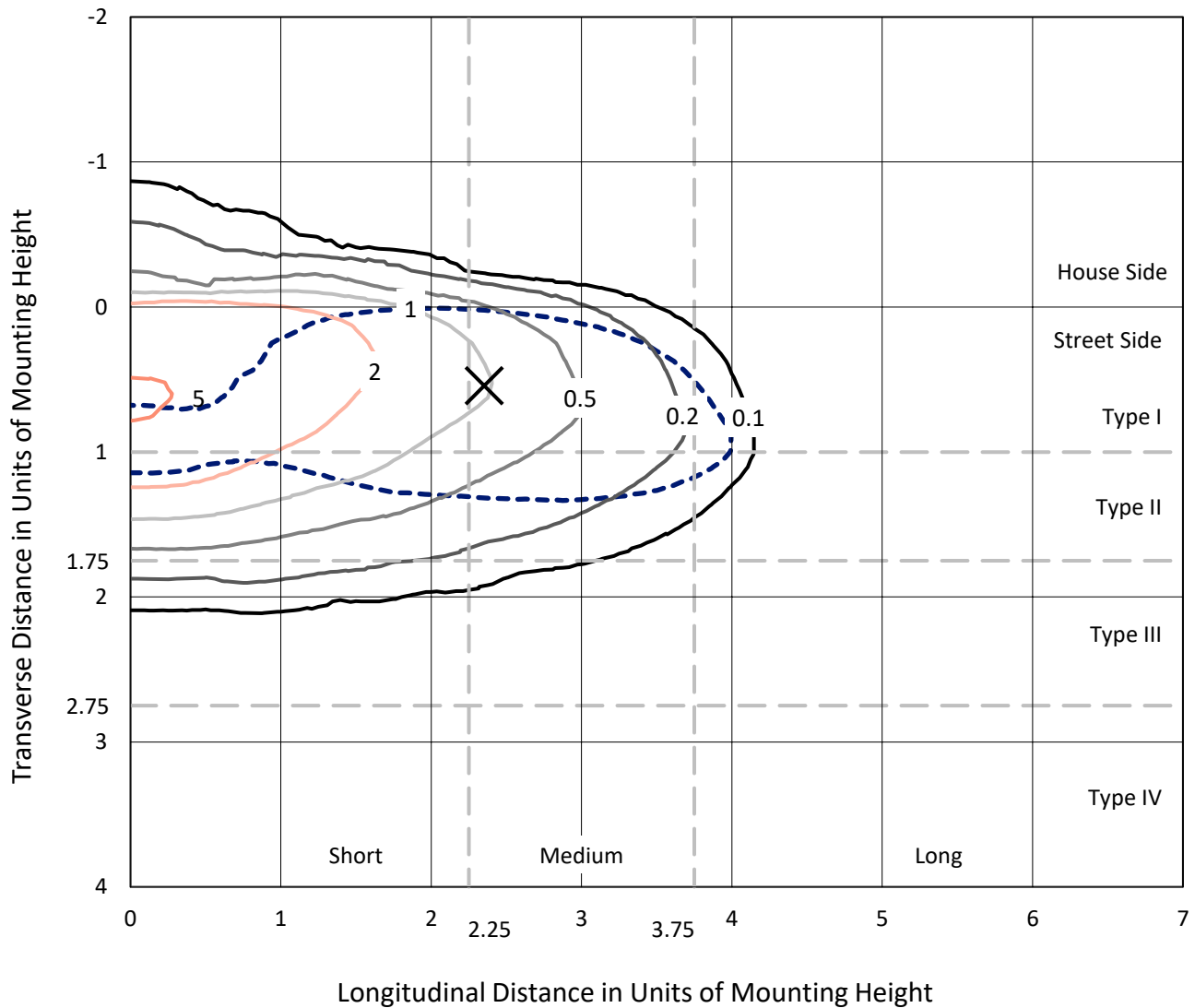


REPORT NUMBER: P949127

CATALOG NUMBER: GALN-SB4A-722-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

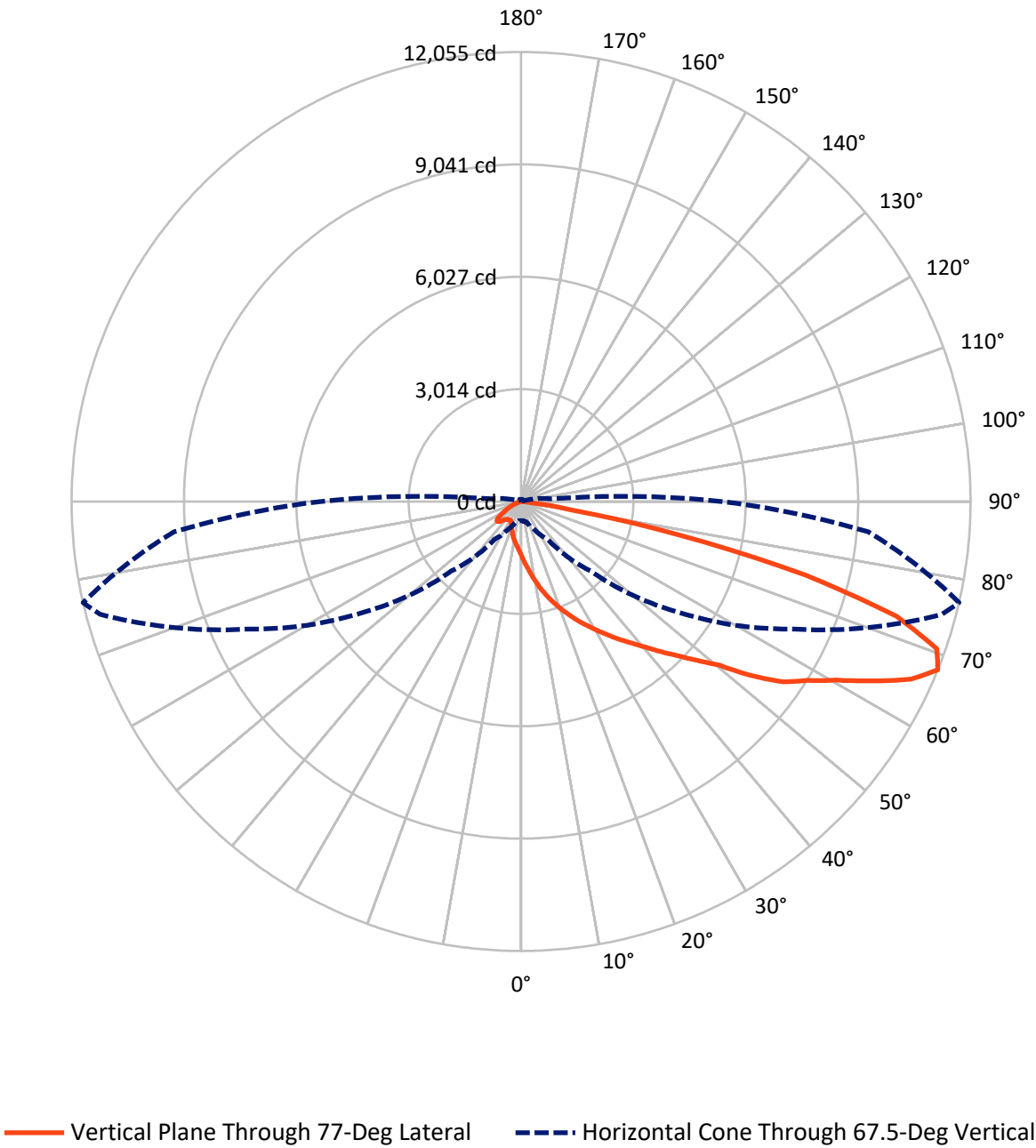
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type II - Medium - N/A

REPORT NUMBER: P949127
CATALOG NUMBER: GALN-SB4A-722-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P949127

CATALOG NUMBER: GALN-SB4A-722-U-T2R-HSS

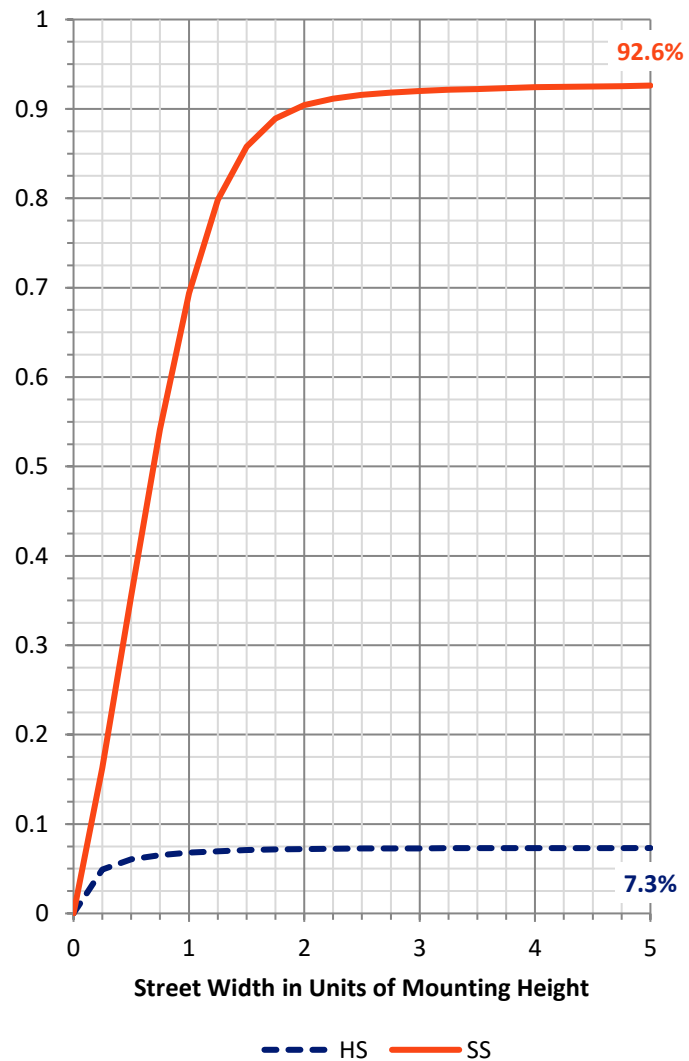
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	925.1	0.0	925.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	11648.9	0.0	11648.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	12574.0	0.0	12574.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	1.2
10°-20°	518.3	4.1
20°-30°	1000.1	8.0
30°-40°	1736.2	13.8
40°-50°	2520.9	20.0
50°-60°	2894.9	23.0
60°-70°	2513.3	20.0
70°-80°	1183.8	9.4
80°-90°	58.5	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°	12574.0	100.0
0°-180°	12574.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949127

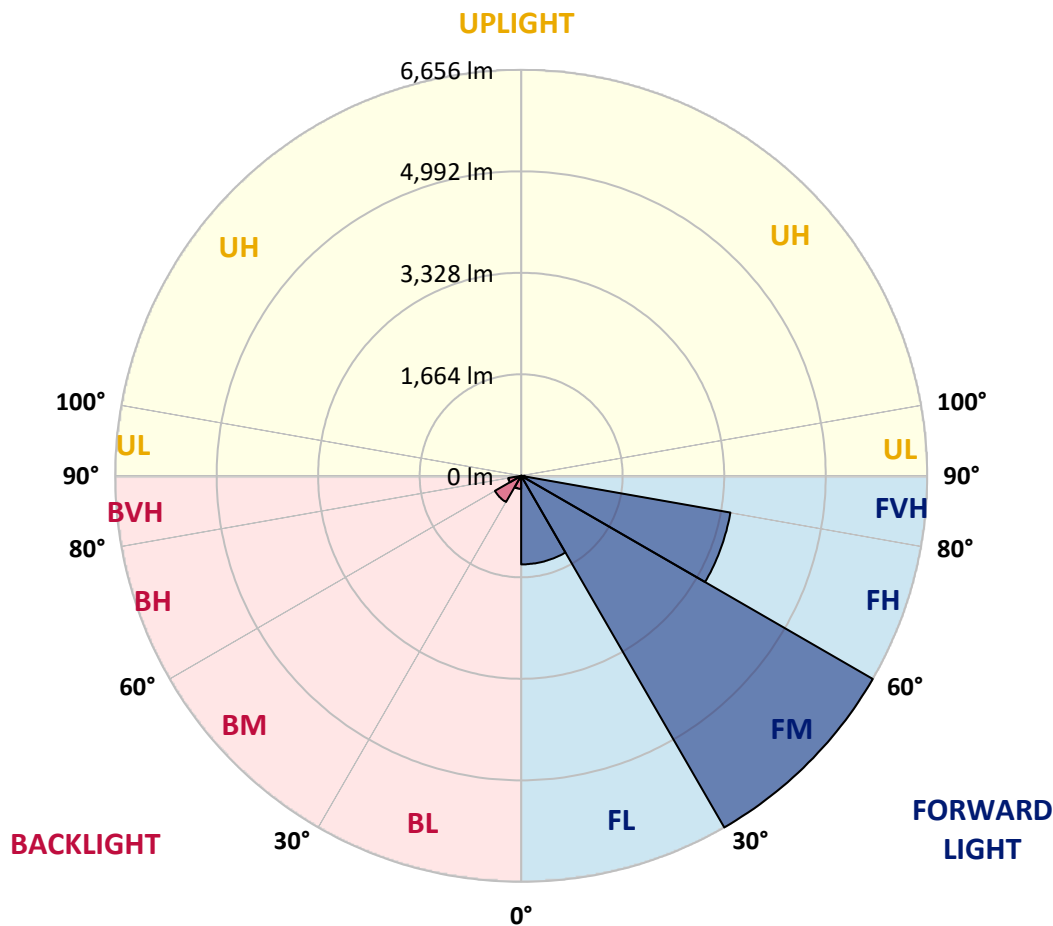
CATALOG NUMBER: GALN-SB4A-722-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1452.2	11.5			
FM	(30°-60°)	6656.3	52.9			
FH	(60°-80°)	3483.0	27.7			G2/5000
FVH	(80°-90°)	57.5	0.5			G1/100
BL	(0°-30°)	214.2	1.7	B1/500		
BM	(30°-60°)	495.7	3.9	B1/1000		
BH	(60°-80°)	214.2	1.7	B1/500		G1/500
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



REPORT NUMBER: P949127

CATALOG NUMBER: GALN-SB4A-722-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0
2.5°	2007.5	2020.0	2002.0	1967.6	1916.1	1882.5	1800.6	1723.3	1637.4	1610.0	1524.1
5°	2447.1	2458.0	2437.7	2400.2	2331.5	2265.9	2158.2	1996.5	1828.7	1774.8	1622.5
7.5°	2772.7	2778.9	2771.1	2736.7	2671.2	2597.0	2476.7	2285.4	2036.4	1977.0	1743.6
10°	3006.9	3027.2	3024.9	3011.6	2967.9	2907.7	2779.7	2561.8	2269.0	2192.5	1880.2
12.5°	3162.3	3184.9	3198.2	3227.9	3225.5	3187.3	3074.8	2844.5	2500.9	2411.1	2034.0
15°	3207.6	3231.8	3282.5	3351.2	3412.1	3431.7	3352.8	3121.7	2756.3	2641.5	2191.7
17.5°	3181.8	3219.3	3280.2	3388.7	3522.2	3610.5	3601.9	3389.5	2988.2	2857.0	2346.3
20°	3238.8	3274.7	3322.4	3413.7	3569.1	3729.2	3793.2	3645.6	3218.5	3081.1	2508.7
22.5°	3554.3	3548.0	3552.7	3567.5	3660.4	3818.9	3950.9	3878.3	3446.5	3306.0	2680.5
25°	4054.0	4025.9	3978.2	3897.8	3874.4	3950.9	4088.3	4084.4	3687.0	3536.3	2856.2
27.5°	4627.1	4622.4	4510.7	4317.1	4207.8	4178.1	4243.7	4285.1	3925.1	3764.3	3032.7
30°	5176.0	5188.5	5037.8	4822.3	4621.6	4505.3	4445.9	4475.6	4167.2	4010.2	3214.6
32.5°	5653.9	5667.1	5503.2	5251.0	5002.7	4862.1	4737.2	4663.8	4431.1	4260.1	3414.5
35°	6057.5	6070.8	5882.6	5603.9	5339.2	5211.9	5070.6	4869.9	4696.6	4537.3	3637.0
37.5°	6418.3	6414.4	6162.2	5881.1	5621.1	5520.3	5446.2	5123.7	4969.9	4816.0	3883.8
40°	6631.4	6647.8	6432.3	6122.3	5870.1	5796.7	5792.1	5438.4	5285.3	5136.2	4153.9
42.5°	6693.9	6722.8	6566.6	6312.1	6083.3	6003.7	6126.2	5778.8	5652.3	5507.1	4459.2
45°	6581.5	6609.6	6538.5	6362.1	6228.5	6177.0	6413.6	6131.7	6044.3	5900.6	4803.6
47.5°	6253.5	6288.7	6305.8	6268.4	6266.8	6319.1	6671.3	6503.4	6509.6	6362.8	5202.5
50°	5618.7	5678.1	5835.8	5968.5	6173.9	6431.5	6921.9	6906.3	7034.3	6907.8	5722.6
52.5°	4464.7	4549.0	5092.5	5455.5	5917.0	6410.5	7197.5	7552.8	7954.9	7769.9	6455.7
55°	3587.8	3587.8	4029.8	4709.1	5415.7	6271.5	7317.8	7972.9	8581.9	8538.2	6971.9
57.5°	2924.9	2960.1	3241.9	3842.4	4690.3	5940.4	7391.9	8236.8	9087.1	9055.1	7476.3
60°	1805.2	1881.0	2413.5	3006.1	3865.0	5350.9	7345.1	8503.8	9700.0	9725.8	8083.7
62.5°	1016.6	1044.7	1282.1	2162.8	3005.3	4558.4	6986.7	8653.0	10484.0	10593.3	8710.0
65°	701.9	716.0	807.4	1346.1	2083.2	3629.2	6286.3	8560.0	11269.5	11490.4	9240.9
67.5°	509.9	516.9	573.9	822.2	1236.0	2631.3	5188.5	8091.5	11685.6	12054.9	9342.4
70°	392.0	396.7	438.0	540.3	730.1	1624.1	3768.2	7160.0	11384.2	11825.4	8822.4
72.5°	318.6	323.3	355.3	399.8	484.1	960.4	2283.9	5814.7	10053.7	10530.0	7510.6
75°	268.6	274.8	303.7	332.6	379.5	616.8	1071.3	4049.3	7560.6	7872.9	5222.8
77.5°	149.1	137.4	246.7	275.6	320.1	390.4	501.3	2383.0	4234.3	4321.0	2317.4
80°	92.9	96.0	196.0	221.8	246.0	196.8	229.6	917.5	1467.9	1394.5	449.0
82.5°	5.5	12.5	150.7	160.1	168.7	84.3	86.7	311.5	353.7	324.8	79.6
85°	0.0	0.0	68.7	55.4	58.6	24.2	25.0	72.6	47.6	51.5	15.6
87.5°	0.0	0.0	0.0	1.6	0.0	2.3	4.7	6.2	2.3	3.1	5.5
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: P949127

CATALOG NUMBER: GALN-SB4A-722-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0	1450.0
2.5°	1469.5	1414.8	1304.0	1195.4	1107.2	1025.2	966.6	911.2	883.1	881.5	880.0
5°	1514.0	1399.2	1177.5	981.5	823.8	697.3	615.3	556.7	527.0	516.9	515.3
7.5°	1576.5	1403.9	1066.6	794.1	608.3	499.7	452.9	434.1	427.9	420.9	419.3
10°	1655.3	1414.8	967.4	639.5	479.4	424.8	406.0	398.2	393.5	388.8	387.3
12.5°	1743.6	1425.0	869.0	531.0	421.6	393.5	380.3	370.9	364.6	359.2	357.6
15°	1829.4	1431.2	766.8	455.2	392.0	369.3	355.3	345.1	336.5	330.3	329.5
17.5°	1914.5	1439.8	670.7	409.9	367.8	345.1	331.1	318.6	311.5	304.5	303.7
20°	2009.0	1438.3	580.1	377.9	343.6	320.9	306.1	294.4	287.3	279.5	278.7
22.5°	2096.5	1430.4	500.5	350.6	318.6	296.7	280.3	268.6	261.6	255.3	254.5
25°	2197.2	1424.2	434.1	325.6	295.1	273.3	255.3	244.4	236.6	231.1	230.3
27.5°	2294.0	1414.8	385.7	303.0	272.5	251.4	234.2	221.8	214.7	210.8	210.8
30°	2389.3	1412.5	367.8	281.1	252.2	231.1	213.9	202.2	196.8	195.2	194.4
32.5°	2504.1	1418.7	375.6	273.3	233.5	212.4	196.0	187.4	181.9	181.9	181.9
35°	2626.7	1417.2	387.3	280.3	221.0	193.6	181.1	175.7	170.2	170.2	170.2
37.5°	2780.5	1419.5	396.7	292.0	216.3	178.0	171.0	164.0	160.8	160.8	160.8
40°	3010.0	1496.8	392.0	302.2	214.7	167.1	153.0	150.7	148.4	148.4	148.4
42.5°	3291.1	1664.7	398.2	303.0	213.9	159.3	140.5	145.2	139.8	139.0	138.2
45°	3598.8	1848.2	438.0	286.6	213.2	155.4	134.3	139.8	131.2	131.2	131.2
47.5°	3904.1	2030.1	478.6	263.1	210.8	154.6	128.8	125.7	123.4	124.1	124.1
50°	4324.9	2178.5	494.3	231.1	205.4	153.0	118.7	119.5	117.9	119.5	119.5
52.5°	4783.3	2209.7	475.5	195.2	189.7	148.4	111.7	114.8	114.0	115.6	115.6
55°	5069.0	2176.1	392.7	162.4	165.5	129.6	104.6	110.9	110.9	110.9	110.9
57.5°	5364.2	2033.2	278.7	132.0	137.4	106.2	98.4	107.0	106.2	105.4	105.4
60°	5576.6	1802.1	183.5	108.5	109.3	87.5	91.4	100.7	99.9	96.0	96.0
62.5°	5735.1	1546.8	117.9	92.1	83.5	78.9	83.5	91.4	88.2	79.6	78.1
65°	5717.1	1193.1	90.6	78.9	68.7	68.7	72.6	79.6	70.3	56.2	54.7
67.5°	5383.7	807.4	75.0	66.4	57.8	57.0	60.1	66.4	60.1	47.6	46.1
70°	4787.9	527.8	60.1	51.5	46.1	42.2	48.4	57.0	50.8	38.3	36.7
72.5°	3886.1	321.7	45.3	37.5	33.6	27.3	38.3	46.8	40.6	28.1	26.5
75°	2514.2	164.0	31.2	24.2	18.0	16.4	28.1	35.1	28.1	17.2	14.8
77.5°	962.0	68.7	17.2	10.9	9.4	7.8	15.6	21.1	11.7	3.9	3.1
80°	185.1	28.9	8.6	5.5	4.7	3.1	2.3	1.6	0.0	0.0	0.0
82.5°	32.0	9.4	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	0.0	0.0	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)