

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: P939398

Luminaire Tested: **GALN-SB2A-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-722-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5611 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 57.3
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

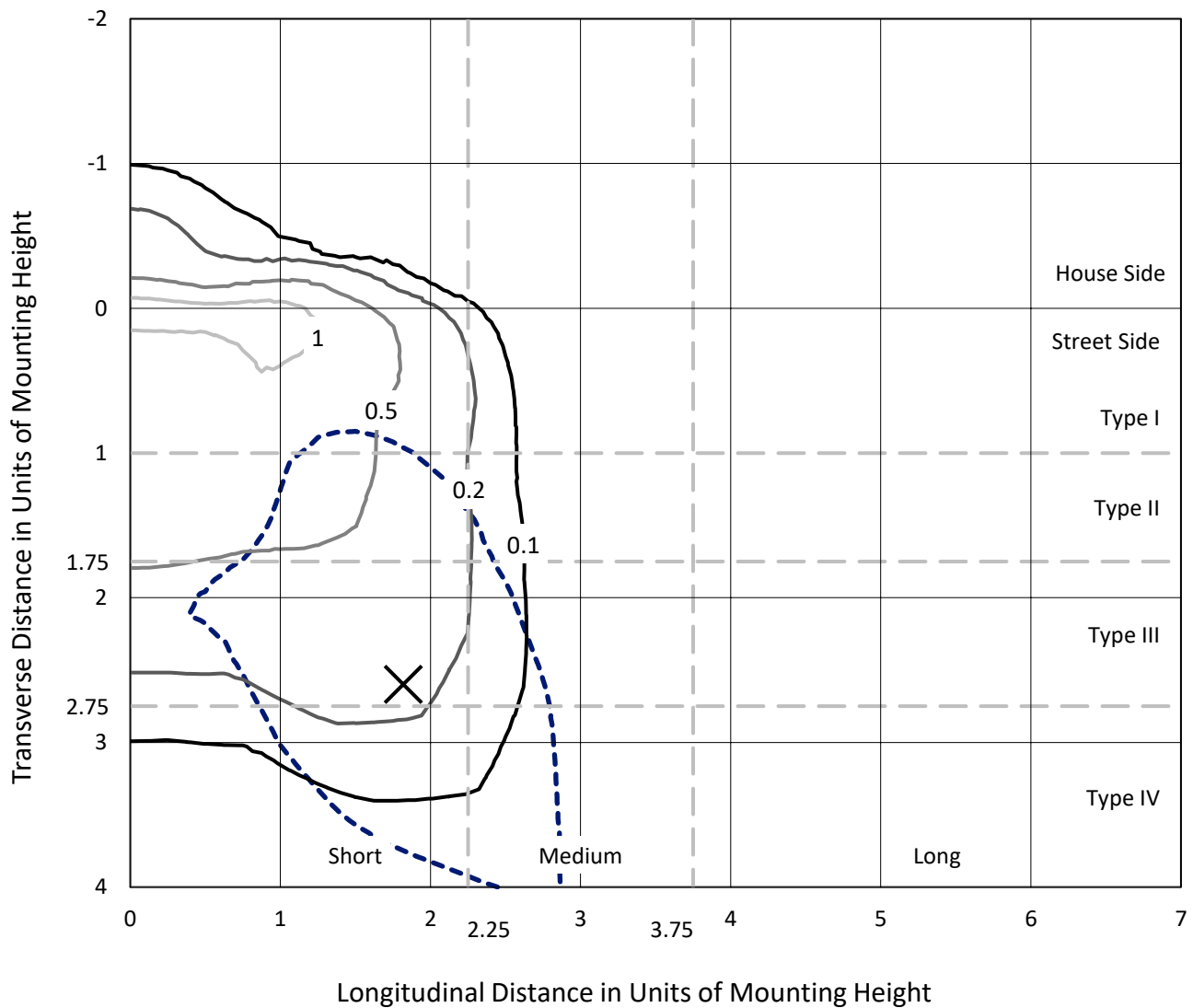


REPORT NUMBER: P939398

CATALOG NUMBER: GALN-SB2A-722-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

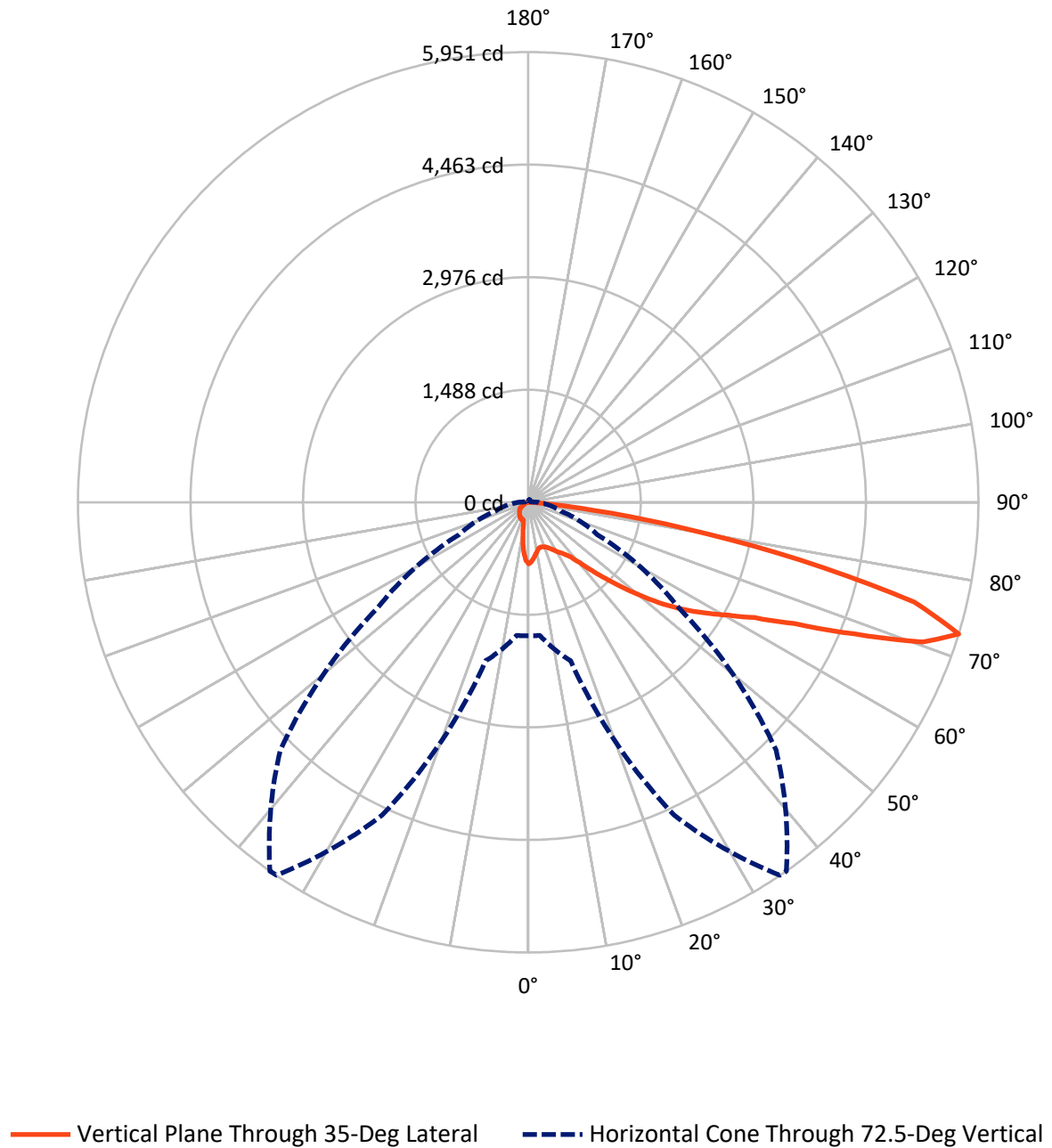
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type IV - Short - N/A

REPORT NUMBER: P939398
CATALOG NUMBER: GALN-SB2A-722-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P939398

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	631.5	0.0	631.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	4979.5	0.0	4979.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	5611.0	0.0	5611.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	1.2
10°-20°	156.3	2.8
20°-30°	254.0	4.5
30°-40°	423.7	7.6
40°-50°	801.7	14.3
50°-60°	1273.9	22.7
60°-70°	1575.9	28.1
70°-80°	979.6	17.5
80°-90°	79.2	1.4
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°	5611.0	100.0
0°-180°	5611.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939398

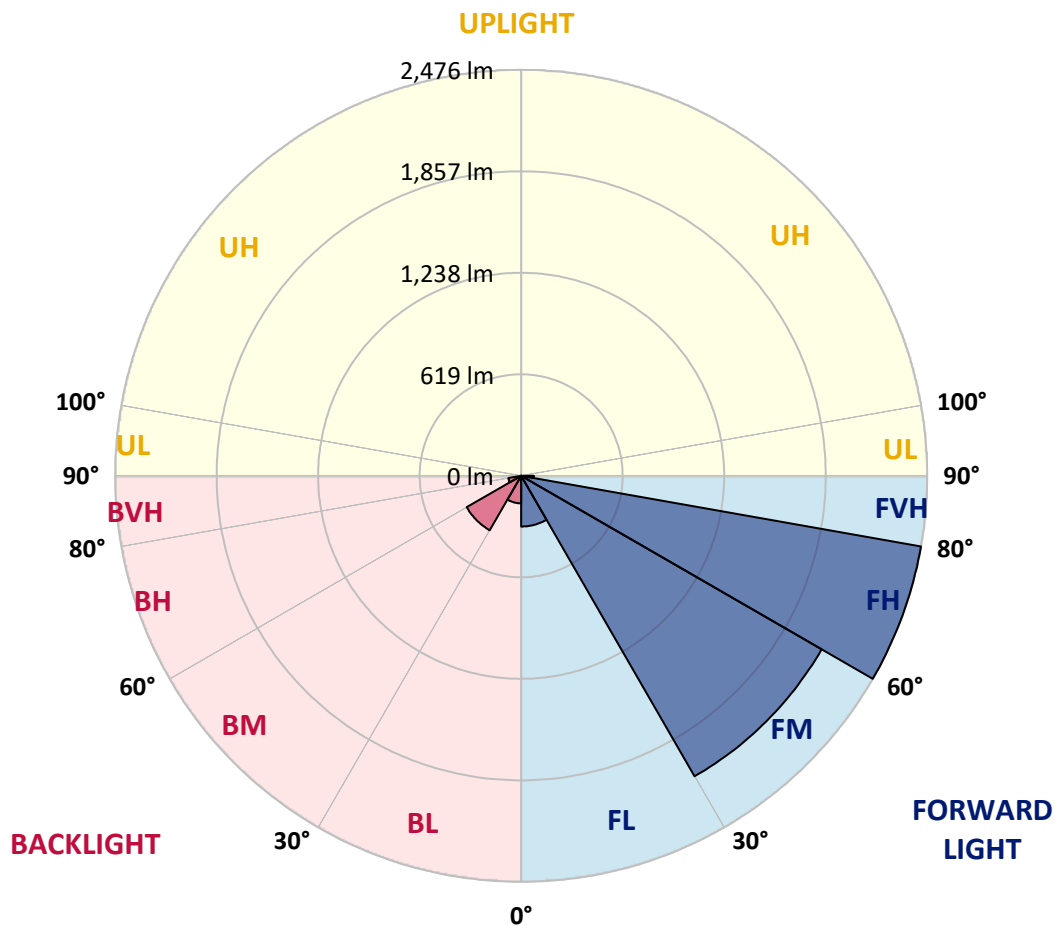
CATALOG NUMBER: GALN-SB2A-722-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	309.3	5.5			
FM	(30°-60°)	2115.9	37.7			
FH	(60°-80°)	2476.2	44.1			G2/5000
FVH	(80°-90°)	78.1	1.4			G1/100
BL	(0°-30°)	167.8	3.0	B1/500		
BM	(30°-60°)	383.4	6.8	B1/1000		
BH	(60°-80°)	79.2	1.4	B0/110		G0/110
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 IV Short



REPORT NUMBER: P939398

CATALOG NUMBER: GALN-SB2A-722-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	813.2	813.2	813.2	813.2	813.2	813.2	813.2	813.2	813.2	813.2	813.2
2.5°	777.0	783.6	784.9	786.9	786.9	789.4	793.5	799.2	808.7	813.6	816.9
5°	716.2	721.1	727.3	732.2	741.7	742.9	759.0	774.6	796.4	812.8	824.3
7.5°	654.9	660.7	668.9	680.8	693.2	696.9	721.1	747.4	782.0	812.8	832.1
10°	611.8	612.2	619.6	631.5	651.2	655.8	685.4	722.8	765.9	807.9	839.5
12.5°	587.5	590.4	593.7	602.7	621.6	624.5	656.2	700.2	749.9	805.0	848.2
15°	587.5	589.6	591.6	596.1	611.4	613.8	641.8	685.8	741.7	806.2	862.1
17.5°	593.7	597.0	595.3	600.7	616.7	618.3	643.0	681.7	741.3	814.0	883.5
20°	608.5	610.9	607.7	610.9	627.0	630.3	655.8	689.5	748.3	827.6	910.2
22.5°	631.9	633.1	625.3	627.8	644.2	648.4	678.0	711.7	765.1	849.4	946.0
25°	661.5	664.0	652.1	654.9	670.6	675.5	709.6	745.0	791.8	879.4	991.7
27.5°	695.6	696.9	686.6	686.2	706.3	713.3	747.9	786.1	827.6	917.2	1049.2
30°	734.7	738.4	728.5	726.9	752.4	758.1	792.3	836.7	880.2	974.0	1131.0
32.5°	765.5	768.4	762.7	766.8	792.7	797.2	846.1	908.2	962.9	1054.6	1242.4
35°	809.9	811.6	798.4	805.8	835.4	846.9	919.7	1008.5	1066.9	1155.7	1388.0
37.5°	970.7	970.7	914.8	878.2	906.5	916.8	1020.4	1134.7	1195.2	1291.4	1571.4
40°	1193.1	1189.4	1107.6	1032.8	1029.1	1049.2	1163.9	1293.8	1360.9	1454.2	1777.7
42.5°	1430.3	1424.6	1313.2	1239.2	1226.8	1233.8	1329.6	1489.9	1558.2	1652.8	1999.8
45°	1640.8	1639.2	1537.2	1437.7	1415.5	1437.7	1536.4	1719.4	1768.3	1867.8	2221.4
47.5°	1817.2	1817.2	1742.8	1677.8	1666.3	1679.5	1816.4	1973.9	1969.3	2096.8	2437.2
50°	2020.3	2018.7	1948.0	1920.0	1931.9	1950.4	2138.7	2241.9	2177.4	2321.7	2630.0
52.5°	2162.6	2172.4	2148.2	2143.6	2204.5	2236.6	2466.0	2504.2	2363.6	2535.0	2774.3
55°	2275.2	2286.7	2314.7	2346.3	2463.5	2505.4	2783.0	2752.9	2519.4	2720.1	2857.4
57.5°	2434.7	2418.3	2461.5	2523.9	2713.5	2764.1	3090.1	2987.7	2644.8	2870.1	2866.4
60°	2628.4	2630.8	2638.2	2717.2	2963.0	3028.0	3392.7	3209.7	2725.4	2962.2	2766.1
62.5°	2861.1	2864.8	2880.0	3001.3	3298.1	3359.4	3715.0	3391.4	2762.4	2936.3	2507.1
65°	2845.0	2860.7	3030.5	3445.3	3807.5	3867.9	4091.2	3518.9	2706.5	2699.5	2041.3
67.5°	2591.8	2617.3	2901.4	3975.7	4575.5	4642.9	4545.9	3544.0	2465.2	2099.2	1331.7
70°	2259.6	2268.6	2610.3	4452.6	5464.8	5533.0	4952.9	3268.1	1870.7	1170.9	596.6
72.5°	1764.6	1766.6	2167.5	4563.2	5947.5	5951.2	4633.5	2426.1	1006.0	449.8	207.2
75°	1260.5	1248.2	1451.7	3700.6	5232.5	5274.4	3473.7	1138.0	384.4	212.6	103.2
77.5°	675.9	689.5	821.4	2194.6	3614.7	3686.2	1895.3	328.1	195.7	144.7	68.2
80°	208.9	220.4	336.7	1004.8	2047.4	2090.6	702.6	146.0	136.5	103.2	44.8
82.5°	65.8	68.2	157.1	422.2	849.8	869.5	203.5	82.6	93.3	68.2	26.3
85°	18.9	19.3	69.9	157.5	210.1	214.2	57.1	32.1	53.4	42.3	13.6
87.5°	2.1	6.6	26.3	26.3	18.5	18.1	6.2	7.0	15.2	5.3	2.5
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: P939398

CATALOG NUMBER: GALN-SB2A-722-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	813.2	813.2	813.2	813.2	813.2	813.2	813.2	813.2	813.2	813.2	813.2
2.5°	814.9	815.3	809.9	800.9	791.0	782.8	772.5	764.3	758.5	756.9	759.8
5°	820.6	817.7	802.5	775.0	742.1	713.7	682.1	657.0	640.5	633.6	636.0
7.5°	829.3	821.0	787.7	733.5	670.6	614.6	557.9	513.9	486.0	472.0	474.0
10°	836.7	820.2	763.1	673.4	577.2	492.5	416.1	363.0	333.4	319.5	319.9
12.5°	843.6	819.8	731.0	602.3	472.0	368.4	297.2	270.9	262.7	259.8	259.0
15°	856.8	821.0	690.7	520.9	367.1	278.3	252.4	252.0	253.7	252.8	252.4
17.5°	874.9	822.3	645.1	434.6	283.3	245.4	244.2	247.9	250.4	249.1	248.7
20°	898.3	827.2	596.6	349.1	243.4	237.2	240.1	243.4	245.4	243.4	243.0
22.5°	931.2	835.8	543.5	280.4	230.6	232.3	234.8	238.5	240.5	237.6	237.2
25°	971.5	849.4	491.3	243.8	224.5	226.5	230.2	234.3	236.8	233.9	233.5
27.5°	1023.7	871.2	443.2	235.6	218.3	219.5	224.9	231.1	234.3	230.6	230.6
30°	1099.4	907.0	401.7	239.3	214.6	211.7	219.1	227.8	231.5	228.2	227.8
32.5°	1199.7	957.5	376.2	245.0	213.0	202.7	209.7	220.8	226.9	224.9	224.9
35°	1331.3	1034.4	366.3	251.6	211.7	193.2	198.2	210.1	220.8	222.8	222.8
37.5°	1490.8	1141.3	369.2	254.5	208.0	185.4	187.9	198.2	212.1	218.7	220.4
40°	1672.1	1265.9	385.6	251.6	203.9	178.8	179.3	187.1	199.4	209.3	212.6
42.5°	1859.1	1411.4	416.1	240.9	200.2	173.1	171.9	177.2	185.4	192.4	195.3
45°	2037.2	1561.1	446.1	226.1	195.7	167.3	164.5	166.5	168.2	171.0	172.7
47.5°	2192.6	1666.3	437.4	212.6	189.5	160.8	155.8	155.0	150.1	149.7	149.2
50°	2299.9	1689.3	388.5	199.0	180.5	153.4	145.5	140.6	132.0	127.9	128.3
52.5°	2334.0	1598.5	317.4	185.4	165.7	143.5	132.4	124.6	113.9	110.2	109.8
55°	2288.8	1420.5	253.7	169.0	145.1	130.3	118.0	107.7	99.1	94.6	94.6
57.5°	2178.2	1193.9	200.6	149.7	123.3	115.5	103.2	92.9	85.5	81.0	80.2
60°	1994.8	948.1	158.7	126.6	105.3	99.5	86.7	80.2	73.6	68.2	67.0
62.5°	1716.5	676.7	124.6	100.3	88.0	81.4	74.0	69.1	61.3	53.9	52.6
65°	1339.5	414.0	96.2	73.6	70.7	67.4	62.9	58.4	48.9	41.5	40.3
67.5°	844.9	196.1	68.7	55.5	55.9	54.3	52.2	48.5	41.5	34.9	34.1
70°	372.1	95.0	45.2	42.3	41.5	41.5	43.2	41.9	35.4	29.2	28.0
72.5°	126.6	51.0	33.7	32.1	30.0	29.6	36.2	34.9	28.4	22.6	21.4
75°	66.2	34.1	24.7	23.0	18.1	21.8	28.8	27.1	20.1	14.8	13.6
77.5°	43.2	24.3	16.9	14.8	10.3	14.4	21.4	18.9	11.9	7.4	6.6
80°	27.1	16.0	9.9	7.0	4.9	7.8	11.5	8.2	4.5	1.6	1.2
82.5°	14.4	8.2	3.7	2.5	2.1	2.5	2.9	2.1	0.8	0.0	0.0
85°	5.8	2.9	1.2	0.8	0.4	0.0	0.8	0.4	0.0	0.0	0.0
87.5°	2.1	0.4	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)