

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: P945559

Luminaire Tested: **GALN-SB1C-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945559
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-722-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 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: 4730 lumens
Efficiency: N/A
Efficacy: 86.9 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

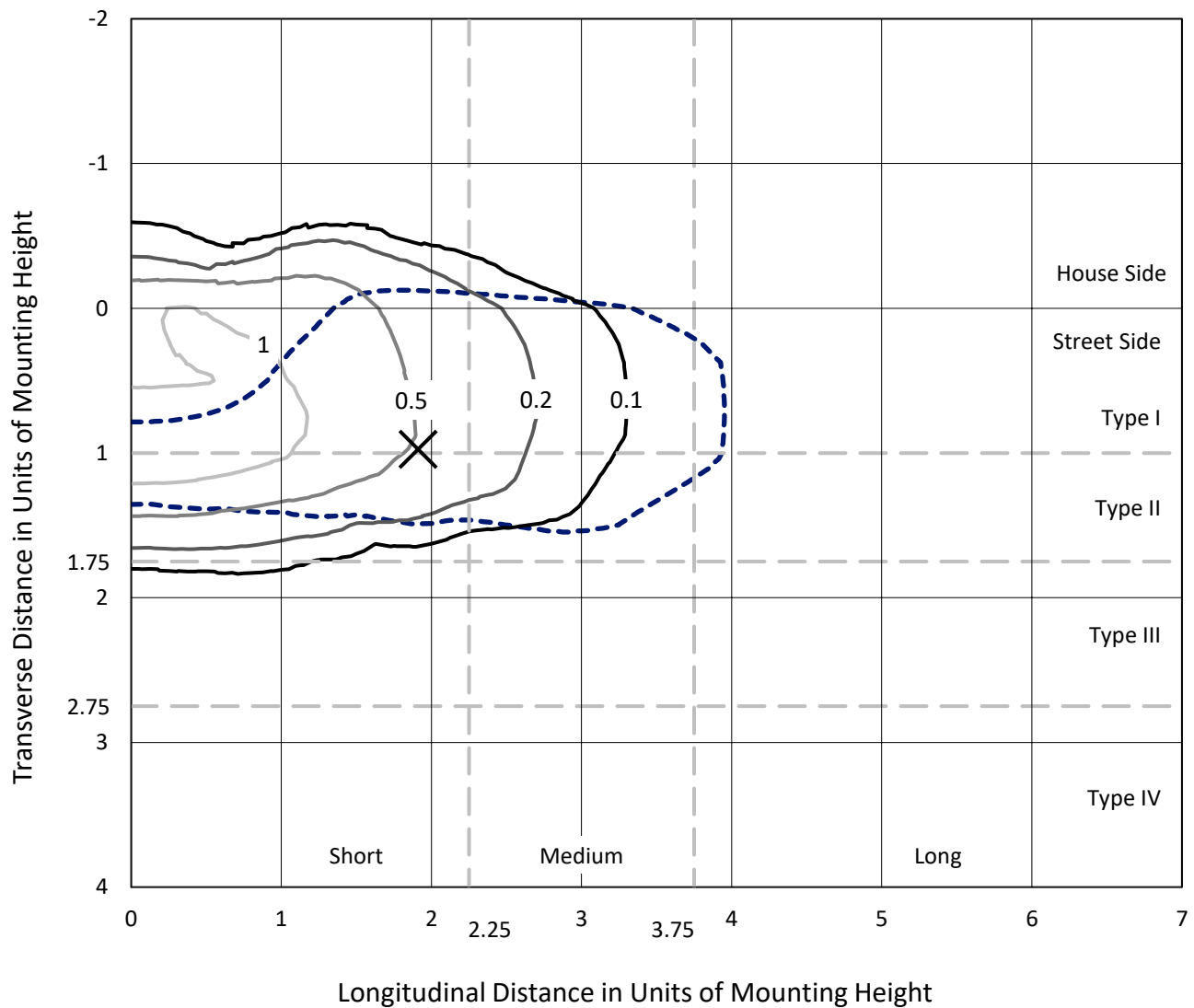


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Iso-Footcandle Lines of Horizontal Illumination

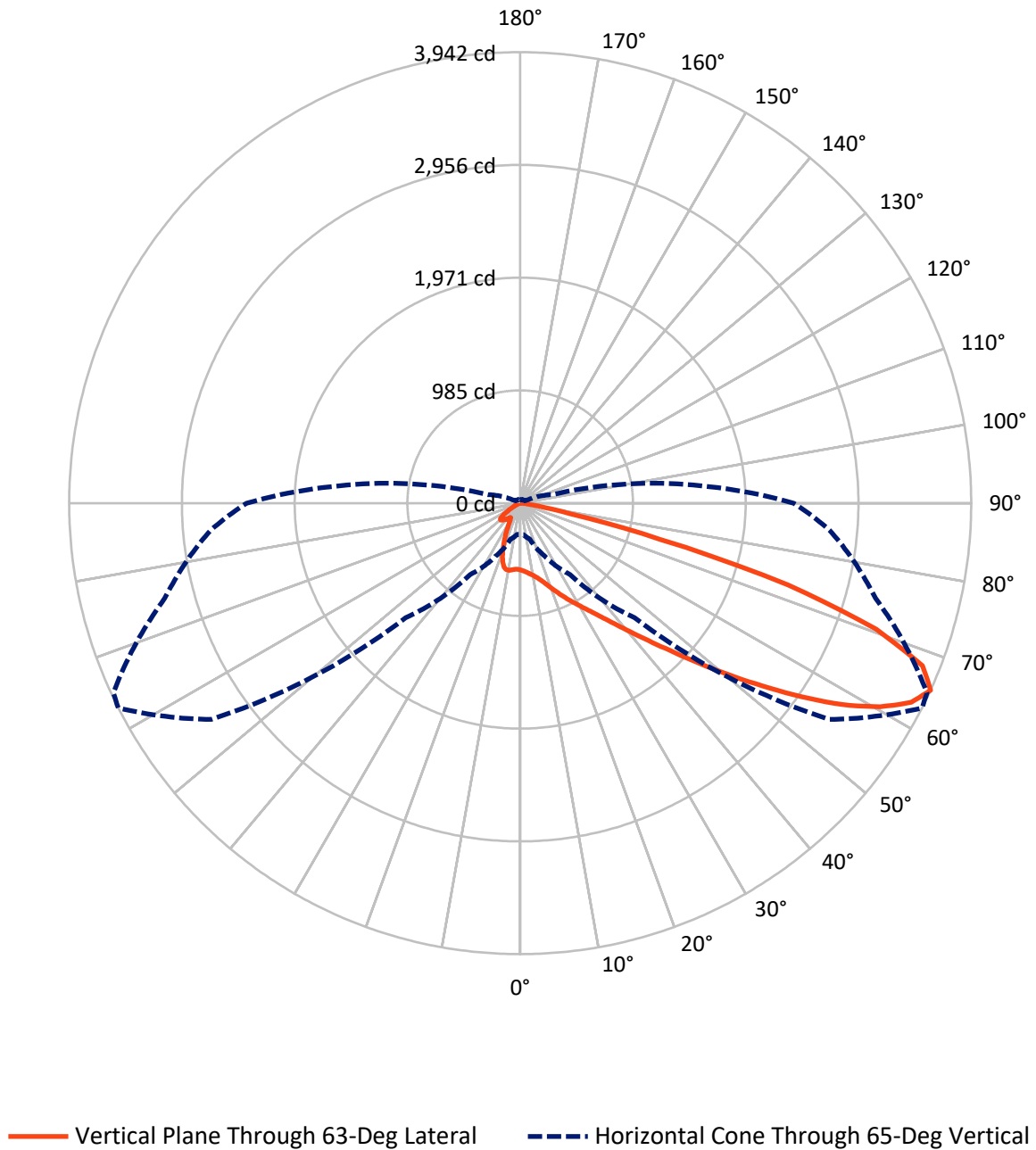
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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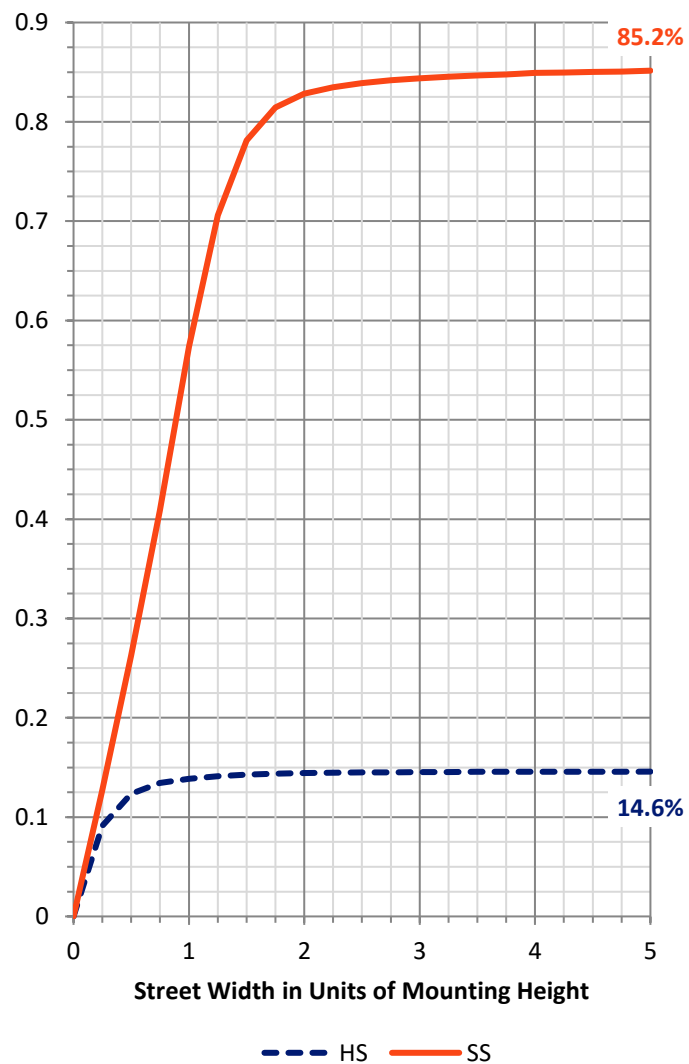
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	695.3	0.0	695.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	4034.7	0.0	4034.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	4730.0	0.0	4730.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	1.2
10°-20°	152.6	3.2
20°-30°	265.7	5.6
30°-40°	479.0	10.1
40°-50°	949.9	20.1
50°-60°	1294.0	27.4
60°-70°	1032.8	21.8
70°-80°	467.4	9.9
80°-90°	33.6	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°	4730.0	100.0
0°-180°	4730.0	100.0

Coefficient of Utilization



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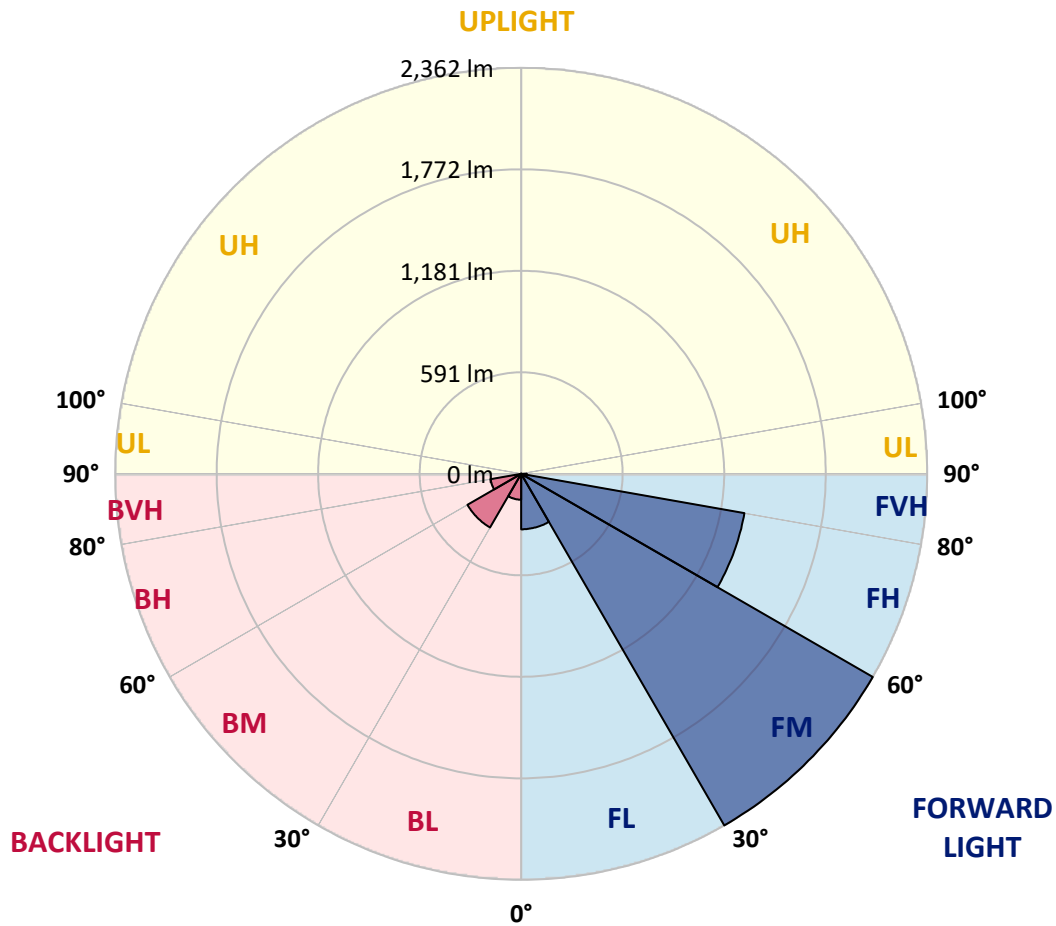
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	322.9	6.8			
FM	(30°-60°)	2362.1	49.9			
FH	(60°-80°)	1318.7	27.9			G1/1800
FVH	(80°-90°)	31.1	0.7			G1/100
BL	(0°-30°)	150.5	3.2	B1/500		
BM	(30°-60°)	360.8	7.6	B1/1000		
BH	(60°-80°)	181.5	3.8	B1/500		G1/500
BVH	(80°-90°)	2.5	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°	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8
2.5°	597.4	595.8	598.1	597.1	596.5	595.2	594.5	593.9	592.6	591.6	587.7
5°	599.1	598.1	600.4	602.3	604.3	606.2	607.2	608.5	607.2	604.6	600.7
7.5°	585.4	584.7	589.6	595.5	604.3	611.8	619.9	624.4	624.8	623.8	619.6
10°	584.4	582.8	587.7	594.8	606.2	619.6	633.9	643.6	644.9	649.2	644.6
12.5°	599.7	598.1	604.9	612.7	624.4	638.4	656.0	669.7	671.6	677.5	674.2
15°	625.4	623.1	631.0	641.0	656.0	672.0	690.5	702.9	704.5	711.7	705.8
17.5°	655.4	653.1	662.2	672.9	689.2	711.0	732.5	746.1	748.1	752.7	741.9
20°	693.8	690.8	698.0	707.7	725.0	751.0	776.7	796.3	795.9	795.9	778.4
22.5°	738.3	733.8	740.0	747.8	764.0	795.6	829.8	852.9	852.9	843.8	814.8
25°	786.2	781.6	788.4	795.6	809.9	845.7	885.7	914.4	915.7	900.1	853.9
27.5°	846.0	840.2	845.4	853.9	862.3	898.8	946.3	979.5	980.1	956.0	891.0
30°	961.2	944.6	928.4	919.3	923.2	959.3	1010.0	1046.8	1050.1	1016.9	931.3
32.5°	1172.1	1168.8	1111.6	1036.7	997.7	1024.4	1081.3	1125.6	1127.5	1084.9	983.7
35°	1499.8	1495.9	1403.8	1261.3	1134.0	1111.6	1167.9	1220.3	1219.0	1170.8	1051.7
37.5°	1890.9	1887.3	1766.0	1575.3	1369.3	1243.4	1279.5	1334.5	1342.6	1279.5	1139.6
40°	2225.1	2211.8	2135.0	1951.1	1681.7	1462.0	1438.3	1474.7	1483.2	1408.3	1251.2
42.5°	2478.3	2466.9	2427.8	2313.0	2059.8	1785.5	1625.4	1639.4	1648.8	1559.0	1379.4
45°	2609.4	2606.8	2622.4	2611.7	2445.1	2182.5	1892.9	1834.6	1838.2	1725.9	1524.8
47.5°	2627.9	2626.6	2697.9	2798.8	2776.3	2630.2	2236.2	2078.0	2065.3	1914.3	1683.0
50°	2518.6	2516.0	2652.7	2841.7	2997.6	3006.4	2626.0	2352.3	2324.3	2109.3	1848.0
52.5°	2169.5	2168.8	2393.3	2708.0	3075.4	3335.7	3011.3	2653.7	2606.8	2315.6	2022.4
55°	1669.3	1681.4	1938.7	2310.7	2933.5	3494.2	3357.2	2988.2	2916.3	2523.2	2183.1
57.5°	1182.5	1200.1	1454.5	1785.8	2493.6	3400.5	3591.1	3323.3	3245.9	2730.1	2346.1
60°	635.2	650.8	905.6	1301.0	1855.1	3051.0	3714.5	3614.2	3541.0	2926.7	2493.2
62.5°	378.4	383.6	489.1	839.9	1254.8	2330.9	3662.1	3835.8	3775.6	3091.6	2621.1
65°	271.7	272.7	325.7	512.8	761.8	1416.1	3294.7	3941.9	3923.4	3215.9	2715.8
67.5°	228.8	228.1	250.2	340.7	519.0	709.4	2525.1	3791.9	3870.7	3294.7	2769.5
70°	196.2	197.2	223.2	249.6	390.2	401.5	1255.4	3301.5	3469.4	3315.5	2766.2
72.5°	146.1	149.4	173.4	227.5	294.5	276.3	433.4	2448.0	2751.6	3123.9	2622.7
75°	103.2	104.8	122.0	191.3	219.6	201.1	221.3	1265.5	1654.7	2395.0	2146.7
77.5°	79.4	82.3	92.4	133.7	216.4	141.2	135.4	438.0	672.9	1446.7	1471.8
80°	43.0	48.2	66.7	96.6	152.0	99.9	67.0	174.4	228.1	676.5	567.5
82.5°	22.1	24.7	46.5	69.6	86.6	87.2	33.2	72.6	94.0	208.9	77.8
85°	8.8	10.7	31.2	38.4	44.6	43.0	15.0	29.3	33.8	57.9	23.8
87.5°	2.0	3.3	11.4	8.8	8.5	9.1	3.6	6.8	6.5	6.8	4.2
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°	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8
2.5°	587.4	586.0	582.5	578.6	574.0	571.4	569.8	569.5	567.2	565.5	567.2
5°	597.1	595.8	589.0	580.8	572.1	565.2	558.7	552.9	544.4	542.8	542.1
7.5°	616.6	613.1	602.0	590.9	574.3	554.5	530.4	502.7	478.0	470.5	467.0
10°	640.7	635.8	621.8	602.3	565.5	511.5	453.3	399.3	356.3	344.3	339.7
12.5°	668.1	663.8	645.3	609.2	528.8	430.8	341.7	274.6	233.0	222.6	219.6
15°	700.6	694.4	668.7	598.7	463.0	327.4	234.6	194.9	179.9	178.0	176.0
17.5°	735.1	725.0	689.5	561.3	374.5	232.7	181.2	169.9	163.4	161.4	160.4
20°	766.6	753.6	701.9	504.7	279.8	181.2	162.4	154.9	149.0	146.8	145.5
22.5°	798.2	779.7	701.9	427.6	209.9	160.7	149.0	142.2	135.4	132.4	130.8
25°	831.1	806.3	689.5	341.7	168.9	147.4	136.3	128.9	123.0	119.4	118.1
27.5°	863.0	828.8	661.2	260.3	150.3	135.7	124.6	117.5	111.9	109.3	109.3
30°	893.2	850.9	621.5	197.5	138.3	124.3	113.9	107.7	102.2	99.6	99.9
32.5°	934.2	878.9	579.2	162.1	127.9	113.6	104.1	98.3	93.4	91.4	91.4
35°	991.2	920.2	542.8	159.1	119.1	104.8	95.3	89.8	84.9	83.3	83.3
37.5°	1071.9	986.9	523.6	178.6	111.9	97.0	88.2	82.3	77.8	76.5	76.1
40°	1171.4	1077.4	534.0	198.2	107.1	90.1	81.7	75.8	71.9	70.3	70.0
42.5°	1289.6	1189.0	591.6	213.1	103.8	84.3	75.5	69.0	66.4	65.7	65.7
45°	1425.3	1311.7	679.8	229.1	98.6	78.7	69.3	64.4	62.5	62.2	61.8
47.5°	1579.5	1446.4	781.9	248.9	93.4	73.5	64.4	61.2	59.5	58.9	58.9
50°	1732.4	1582.1	887.0	260.0	89.2	68.7	60.5	57.9	56.6	56.3	56.3
52.5°	1892.5	1721.7	972.0	249.6	85.6	64.8	57.3	55.3	54.0	53.7	53.7
55°	2045.2	1834.6	986.6	211.8	78.4	60.9	53.7	52.7	51.1	51.1	50.8
57.5°	2176.6	1891.2	883.1	155.5	71.3	55.0	50.1	49.1	47.8	47.5	47.2
60°	2297.3	1875.0	681.7	104.8	63.5	49.1	45.6	44.9	43.6	42.0	41.7
62.5°	2365.3	1803.4	466.3	68.3	55.6	43.0	40.3	40.0	37.1	33.8	33.2
65°	2391.1	1656.3	290.9	49.8	46.5	36.8	34.8	34.2	29.9	26.4	26.0
67.5°	2368.6	1414.2	146.8	39.4	36.8	30.6	28.6	28.6	25.7	22.5	22.1
70°	2278.8	1060.2	61.8	31.6	28.3	23.4	23.4	24.7	21.8	18.2	17.9
72.5°	2083.9	713.3	32.9	24.1	21.2	16.6	19.2	20.2	17.2	13.7	13.7
75°	1656.6	435.1	22.8	17.9	13.3	11.7	14.6	15.3	11.7	9.1	8.8
77.5°	1133.1	249.9	15.3	11.4	8.5	6.8	10.1	9.4	6.2	4.2	4.6
80°	497.5	104.1	8.8	5.2	3.3	2.6	3.6	2.6	2.0	1.3	1.3
82.5°	58.2	24.4	3.3	2.0	1.3	0.7	0.3	0.0	0.0	0.0	0.0
85°	12.0	2.9	1.6	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	0.7	0.3	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)