

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: P938729

Luminaire Tested: **GALN-SB1A-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4114 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 30.9
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

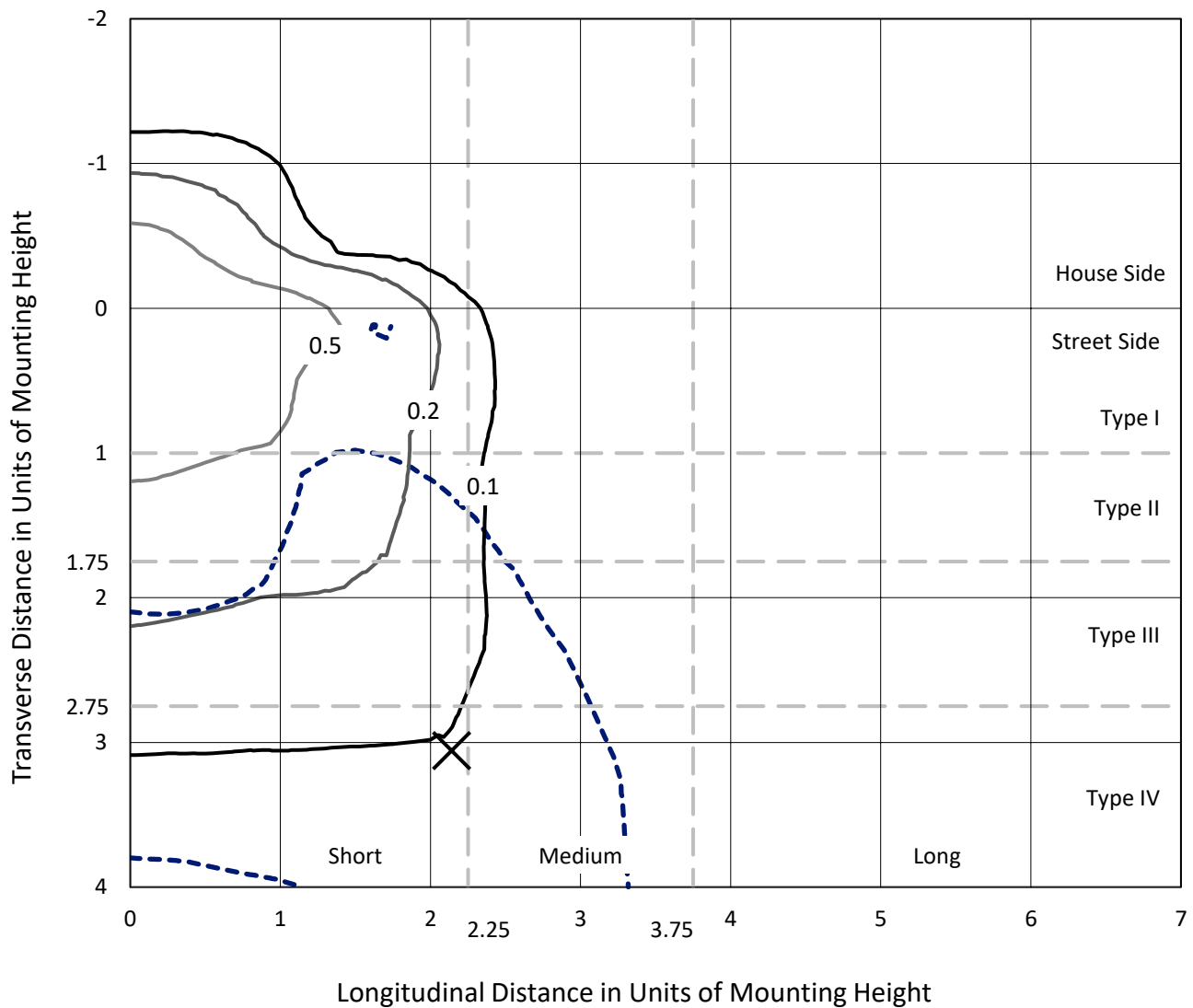


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

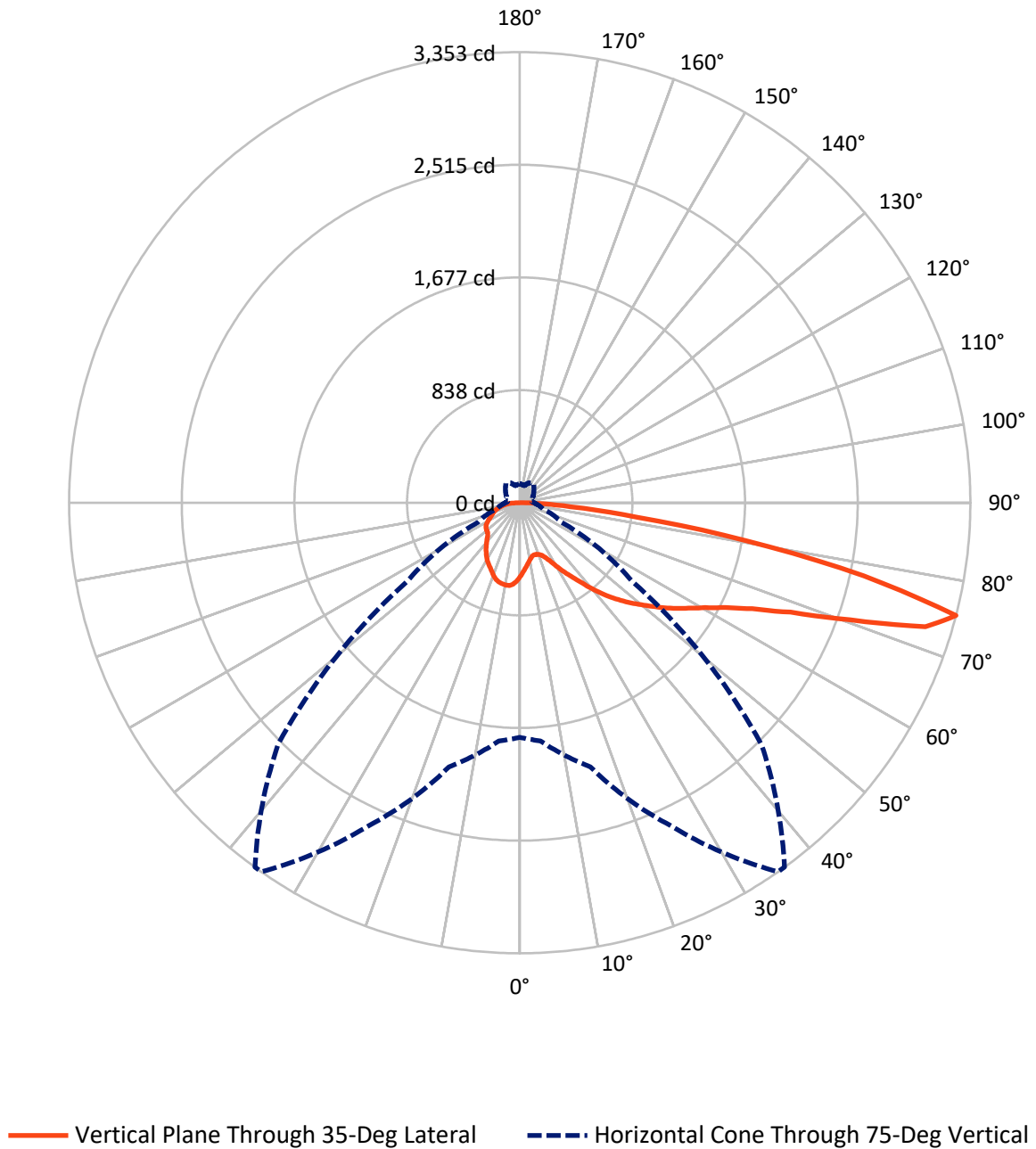


Based on 25 foot mounting height. Maximum calculated value = 1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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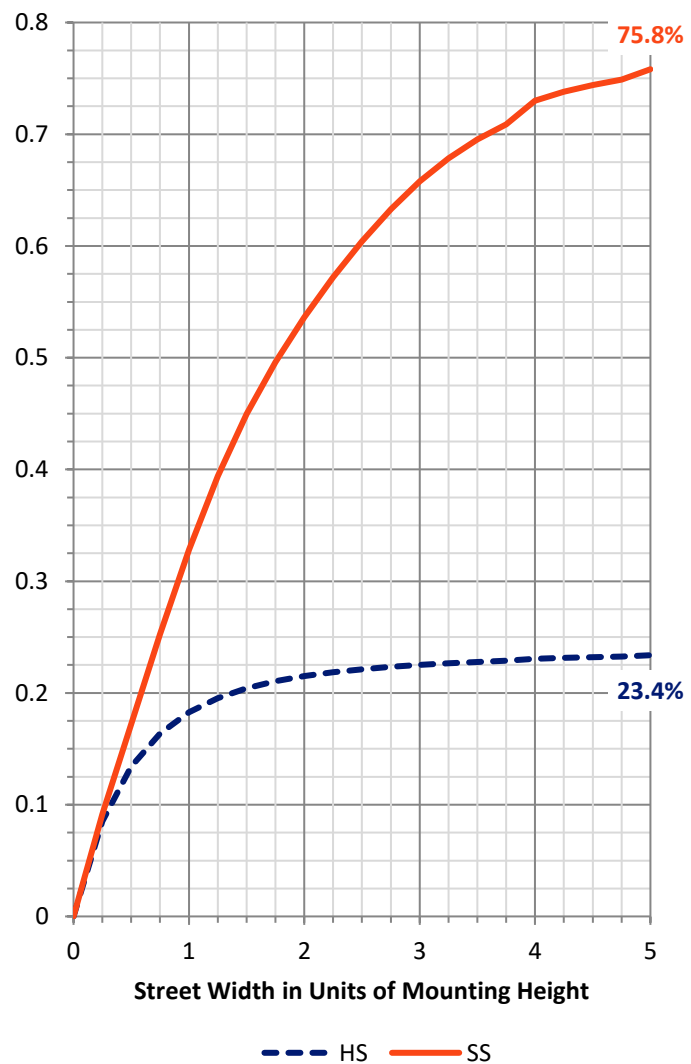
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	979.0	0.0	979.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	3135.0	0.0	3135.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	4114.0	0.0	4114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	1.3
10°-20°	149.7	3.6
20°-30°	251.4	6.1
30°-40°	390.7	9.5
40°-50°	580.0	14.1
50°-60°	800.7	19.5
60°-70°	971.4	23.6
70°-80°	802.8	19.5
80°-90°	115.5	2.8
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°	4114.0	100.0
0°-180°	4114.0	100.0

Coefficient of Utilization



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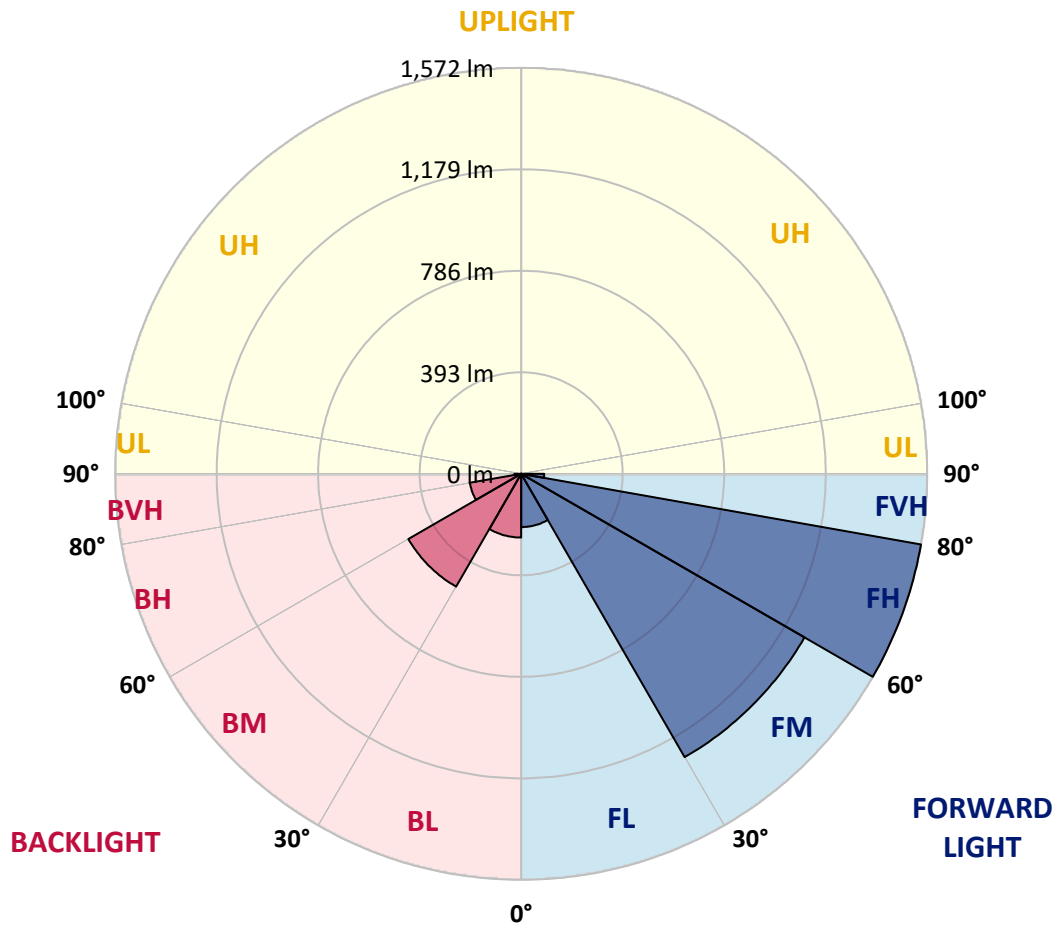
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	206.3	5.0			
FM	(30°-60°)	1266.9	30.8			
FH	(60°-80°)	1572.3	38.2			G1/1800
FVH	(80°-90°)	89.5	2.2			G1/100
BL	(0°-30°)	246.7	6.0	B1/500		
BM	(30°-60°)	504.5	12.3	B1/1000		
BH	(60°-80°)	201.8	4.9	B1/500		G1/500
BVH	(80°-90°)	26.0	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2
2.5°	505.5	508.6	510.0	509.3	512.6	512.2	516.9	522.6	530.6	538.4	549.8
5°	466.6	469.9	472.8	475.5	481.9	483.9	491.3	502.4	517.1	532.0	550.7
7.5°	430.3	433.2	437.7	442.6	453.5	455.5	467.7	485.1	505.5	527.3	553.1
10°	400.8	403.7	408.3	413.9	427.5	429.9	445.5	468.6	495.3	522.9	555.8
12.5°	388.1	389.0	391.6	397.2	409.0	410.6	427.7	454.1	485.3	519.5	559.8
15°	387.4	389.2	389.4	392.3	402.1	402.8	418.6	444.8	479.1	518.9	565.8
17.5°	394.1	395.4	393.4	395.2	403.4	404.5	417.0	440.4	477.1	521.8	576.0
20°	411.9	413.0	407.0	404.5	410.6	411.4	423.7	443.2	479.1	527.8	590.0
22.5°	449.7	450.4	435.7	425.7	426.1	426.6	437.2	455.0	486.8	538.7	607.8
25°	508.6	508.2	484.8	465.5	454.4	451.9	459.0	474.2	500.0	553.1	630.7
27.5°	577.6	574.2	550.9	522.0	497.7	494.2	492.6	499.1	518.6	572.2	658.8
30°	655.4	652.3	627.2	589.4	555.8	550.0	535.3	532.0	546.4	598.3	697.7
32.5°	740.8	738.8	708.8	663.0	618.1	611.4	586.7	577.8	589.1	637.6	751.9
35°	812.4	810.7	785.7	738.6	683.7	675.4	650.3	640.3	646.1	688.1	822.9
37.5°	877.1	876.3	854.9	817.8	761.1	751.0	722.8	719.5	718.4	754.6	909.0
40°	937.2	935.0	912.7	893.2	851.1	842.0	817.1	814.2	805.8	836.4	1006.4
42.5°	1003.7	997.9	965.7	956.5	945.2	937.6	922.7	923.2	904.5	928.7	1109.6
45°	1058.0	1054.6	1021.5	1016.1	1028.4	1025.3	1038.2	1041.5	1005.3	1025.5	1216.8
47.5°	1116.2	1113.1	1085.1	1081.3	1114.5	1115.3	1160.9	1162.0	1103.6	1126.0	1324.2
50°	1188.1	1183.6	1155.8	1160.5	1197.6	1201.0	1284.4	1276.8	1194.1	1228.1	1430.7
52.5°	1235.4	1238.1	1232.1	1239.7	1290.4	1293.5	1405.8	1386.4	1283.7	1328.8	1535.2
55°	1270.4	1275.7	1294.4	1311.7	1388.2	1391.3	1520.3	1490.8	1358.0	1422.3	1633.5
57.5°	1315.3	1307.7	1342.6	1376.4	1481.2	1489.4	1631.8	1591.3	1423.8	1502.8	1700.9
60°	1379.8	1374.4	1401.6	1451.6	1585.3	1598.4	1749.6	1681.8	1472.1	1566.6	1714.0
62.5°	1510.5	1497.2	1501.4	1545.7	1716.5	1733.8	1882.6	1760.7	1496.1	1591.5	1643.8
65°	1706.0	1683.1	1661.8	1692.5	1901.3	1918.4	2032.7	1822.8	1487.2	1543.2	1457.2
67.5°	1952.2	1929.6	1903.3	1932.2	2173.5	2187.1	2218.0	1857.7	1417.1	1357.3	1127.4
70°	2155.3	2146.8	2178.2	2297.2	2608.3	2608.8	2455.5	1828.8	1225.2	962.3	652.3
72.5°	2128.4	2123.3	2288.5	2656.4	3156.3	3144.5	2680.4	1610.0	825.3	434.1	244.4
75°	1746.1	1779.2	2035.2	2649.9	3353.1	3351.6	2542.7	1023.5	341.4	179.9	126.3
77.5°	936.3	988.8	1321.3	1956.5	2617.7	2657.0	1787.7	358.1	146.6	115.2	87.4
80°	305.4	351.2	526.6	996.1	1700.9	1693.6	766.2	140.6	100.3	81.6	60.5
82.5°	129.7	135.0	235.3	470.4	872.9	859.4	244.0	80.7	70.5	55.8	37.4
85°	50.7	56.7	103.9	217.5	378.1	369.9	88.1	40.0	45.1	36.5	22.2
87.5°	16.7	20.2	37.1	74.5	117.7	113.4	21.6	13.8	19.6	16.7	8.0
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°	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2	548.2
2.5°	552.9	556.4	560.7	566.9	572.2	576.7	581.4	584.2	585.4	588.7	588.5
5°	556.9	564.7	575.1	585.4	595.4	601.4	606.7	609.4	611.8	613.6	614.0
7.5°	563.6	573.6	590.0	603.4	611.8	616.7	620.3	619.4	620.3	620.7	621.4
10°	569.3	583.4	602.9	615.6	622.1	622.3	621.4	618.3	616.7	616.9	617.4
12.5°	576.2	591.8	612.9	623.6	625.4	620.5	616.7	611.4	609.4	608.5	608.0
15°	585.6	603.4	623.8	627.8	623.4	617.2	610.7	602.0	597.6	594.0	595.1
17.5°	596.9	616.5	632.3	629.4	619.8	609.6	599.1	586.0	576.9	573.1	573.3
20°	612.7	630.3	638.7	626.1	611.6	596.0	578.2	562.2	553.8	550.0	549.6
22.5°	631.8	648.7	645.0	620.3	599.8	574.9	552.7	540.9	536.7	534.0	534.4
25°	654.7	669.2	649.4	611.8	580.5	546.9	529.8	526.0	524.0	522.0	522.0
27.5°	684.6	692.3	652.7	599.4	550.2	517.1	510.9	511.5	510.9	507.5	508.2
30°	723.9	722.4	655.9	579.1	515.5	490.2	490.6	493.5	494.0	491.7	492.8
32.5°	775.7	759.9	657.4	552.9	482.4	466.6	467.0	470.2	472.4	468.6	470.4
35°	838.5	803.8	655.0	520.0	456.8	444.1	440.8	441.7	442.4	438.8	441.2
37.5°	911.6	852.9	644.1	483.5	435.7	422.1	415.0	409.0	405.4	402.1	404.3
40°	991.9	906.5	624.1	447.9	412.1	398.8	388.1	376.7	364.7	360.3	362.3
42.5°	1076.0	961.7	599.8	413.9	385.0	374.1	362.7	346.3	328.3	319.1	320.3
45°	1163.2	1018.2	576.0	380.3	357.2	352.5	339.4	319.6	300.0	288.5	287.6
47.5°	1248.6	1071.5	541.1	346.5	331.2	336.3	326.0	307.8	286.0	267.8	265.8
50°	1330.2	1121.6	483.9	312.3	310.0	331.4	321.6	295.3	270.4	247.1	245.1
52.5°	1411.1	1162.0	410.8	281.1	298.7	330.0	315.8	286.9	256.4	232.0	229.3
55°	1479.9	1183.0	340.3	254.4	282.2	318.7	308.9	276.9	236.6	210.6	208.4
57.5°	1519.0	1166.0	281.6	228.2	259.5	300.0	297.1	255.5	213.1	193.0	190.4
60°	1502.1	1097.5	233.5	205.3	238.0	279.8	276.7	234.4	195.0	176.1	173.5
62.5°	1408.9	967.0	195.5	185.3	218.4	259.1	256.2	218.2	181.3	163.0	160.1
65°	1221.2	786.6	165.9	168.6	198.6	234.2	238.4	204.6	170.4	152.6	149.7
67.5°	931.4	569.8	142.8	154.1	179.3	209.7	222.0	194.8	161.2	144.3	141.7
70°	530.9	323.6	123.2	140.1	162.1	187.0	209.3	187.0	151.5	137.4	135.7
72.5°	201.3	148.6	106.5	126.1	145.7	167.9	195.3	174.8	140.1	129.7	127.9
75°	107.4	90.5	89.6	109.6	126.8	149.2	177.7	162.8	131.7	137.0	141.4
77.5°	73.2	64.1	74.9	93.9	106.1	128.5	159.0	144.6	114.1	113.6	104.8
80°	50.7	45.4	60.9	75.6	82.1	108.1	138.8	124.1	93.0	86.7	83.0
82.5°	30.5	29.6	45.6	56.5	58.0	83.4	115.0	104.1	76.1	66.3	66.7
85°	16.7	17.6	29.1	33.1	33.8	58.3	90.1	80.5	58.5	49.2	49.6
87.5°	4.7	6.0	10.7	13.1	16.2	30.2	53.6	47.8	29.4	20.5	20.5
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)