

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: P945224

Luminaire Tested: **GALN-SB1B-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5295 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 39.8
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

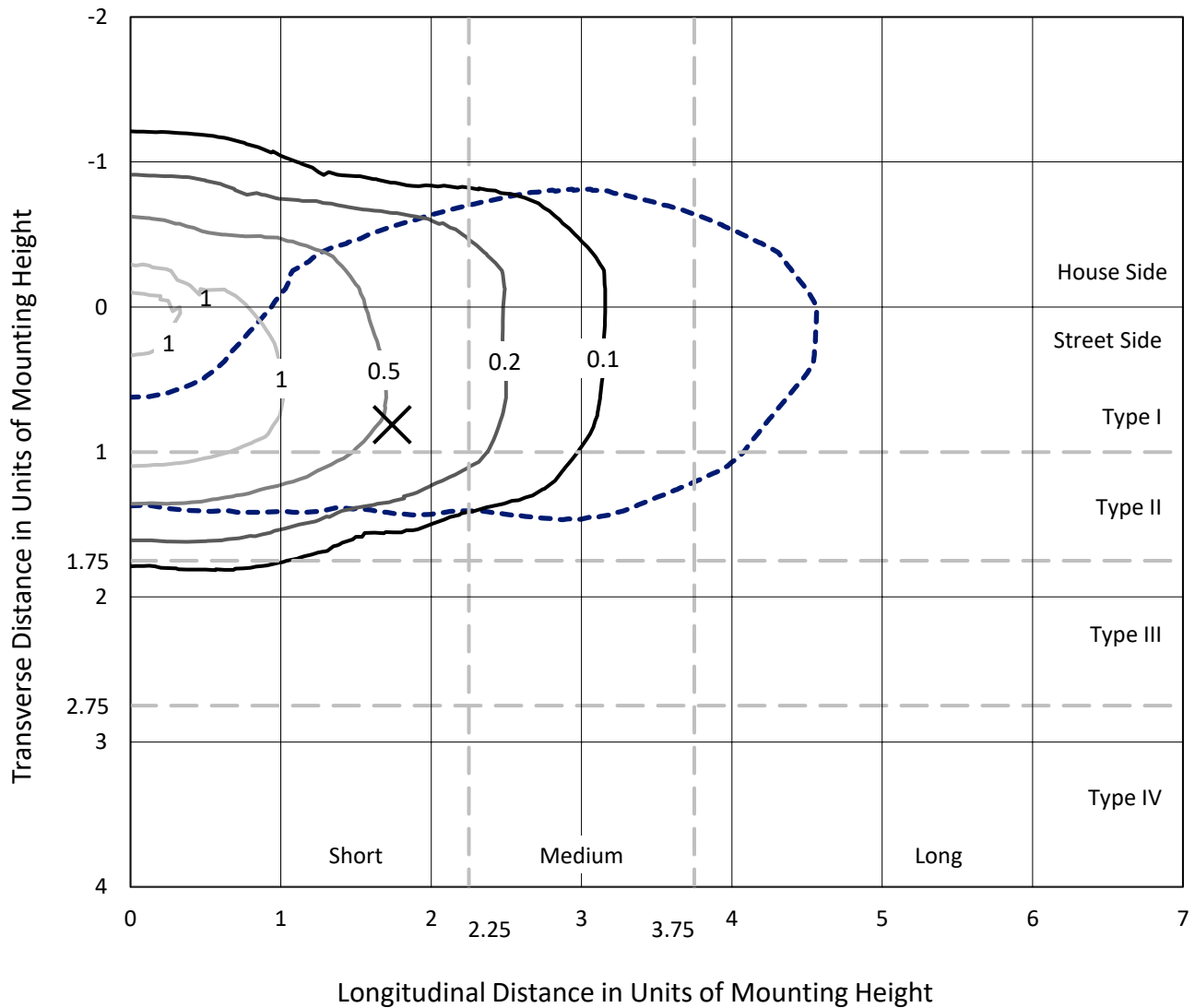


REPORT NUMBER: P945224

CATALOG NUMBER: GALN-SB1B-727-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

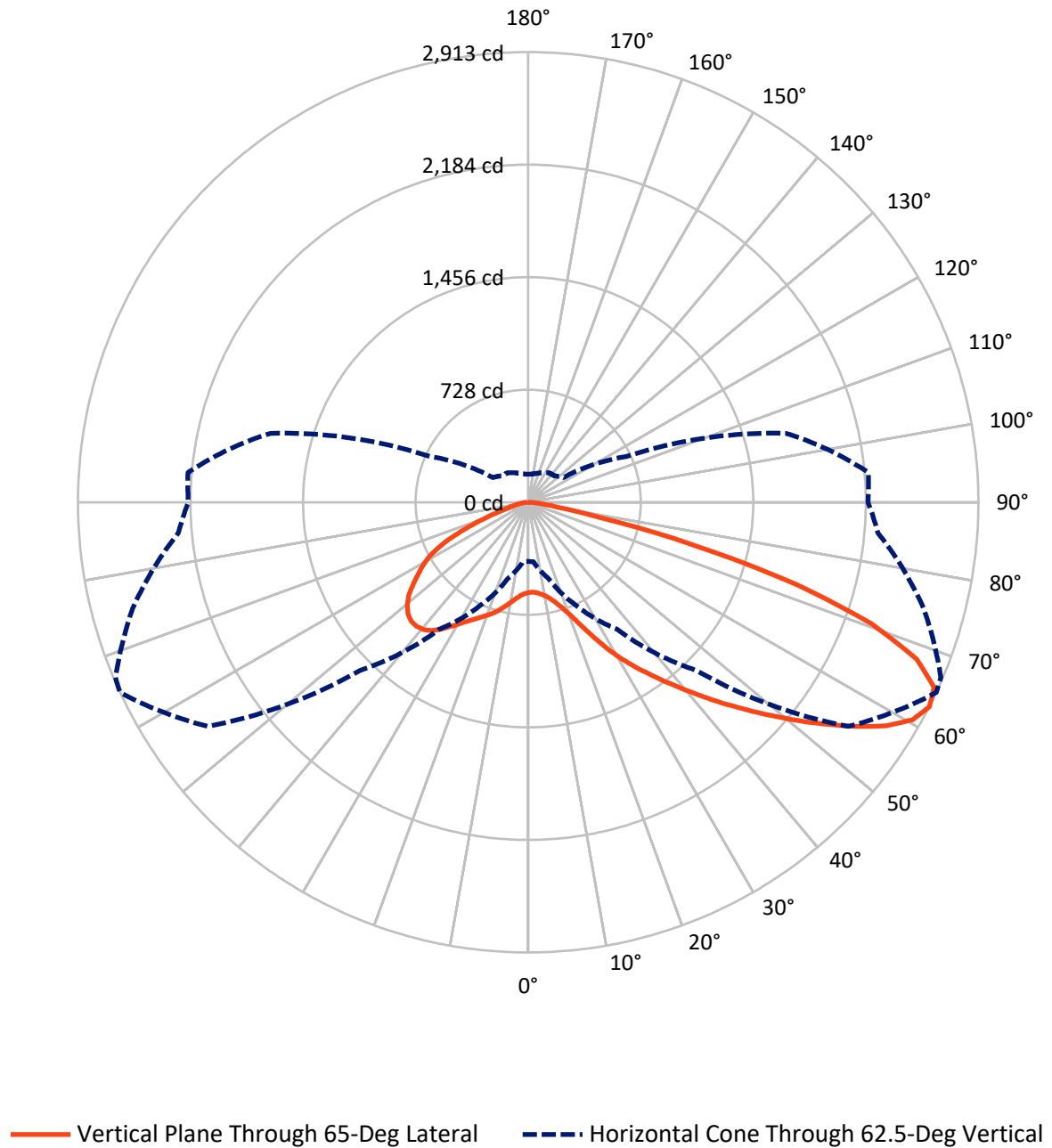


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type II - Short - N/A

REPORT NUMBER: P945224

CATALOG NUMBER: GALN-SB1B-727-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P945224

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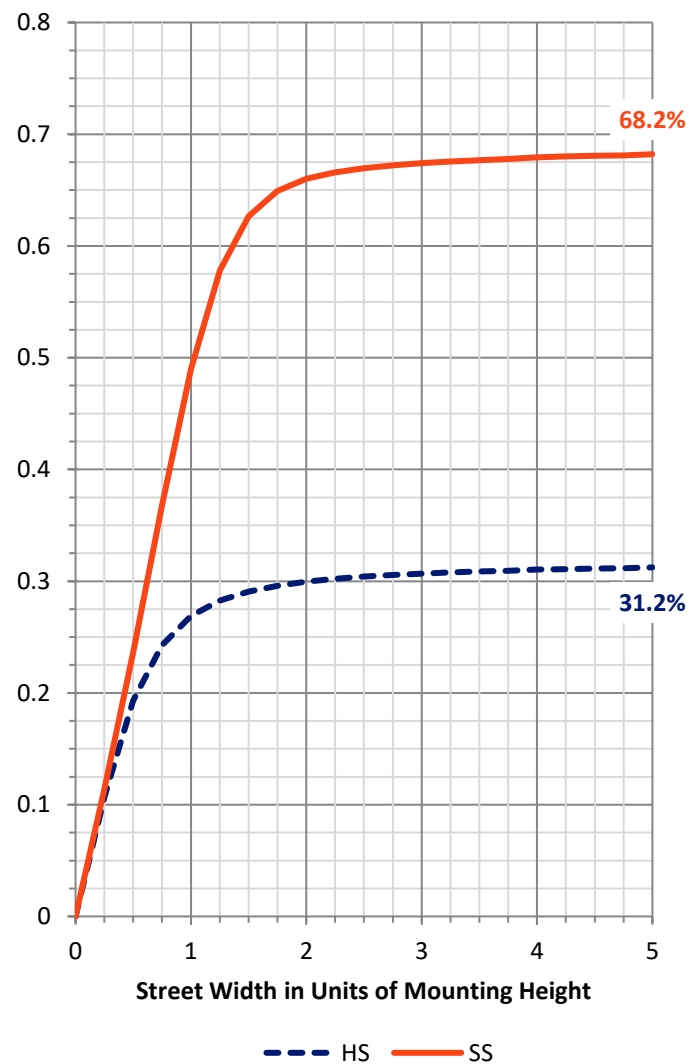
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1670.9	0.0	1670.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	3624.1	0.0	3624.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	5295.0	0.0	5295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	1.1
10°-20°	197.3	3.7
20°-30°	400.0	7.6
30°-40°	692.2	13.1
40°-50°	1047.5	19.8
50°-60°	1228.1	23.2
60°-70°	1029.6	19.4
70°-80°	568.4	10.7
80°-90°	73.8	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°	5295.0	100.0
0°-180°	5295.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945224

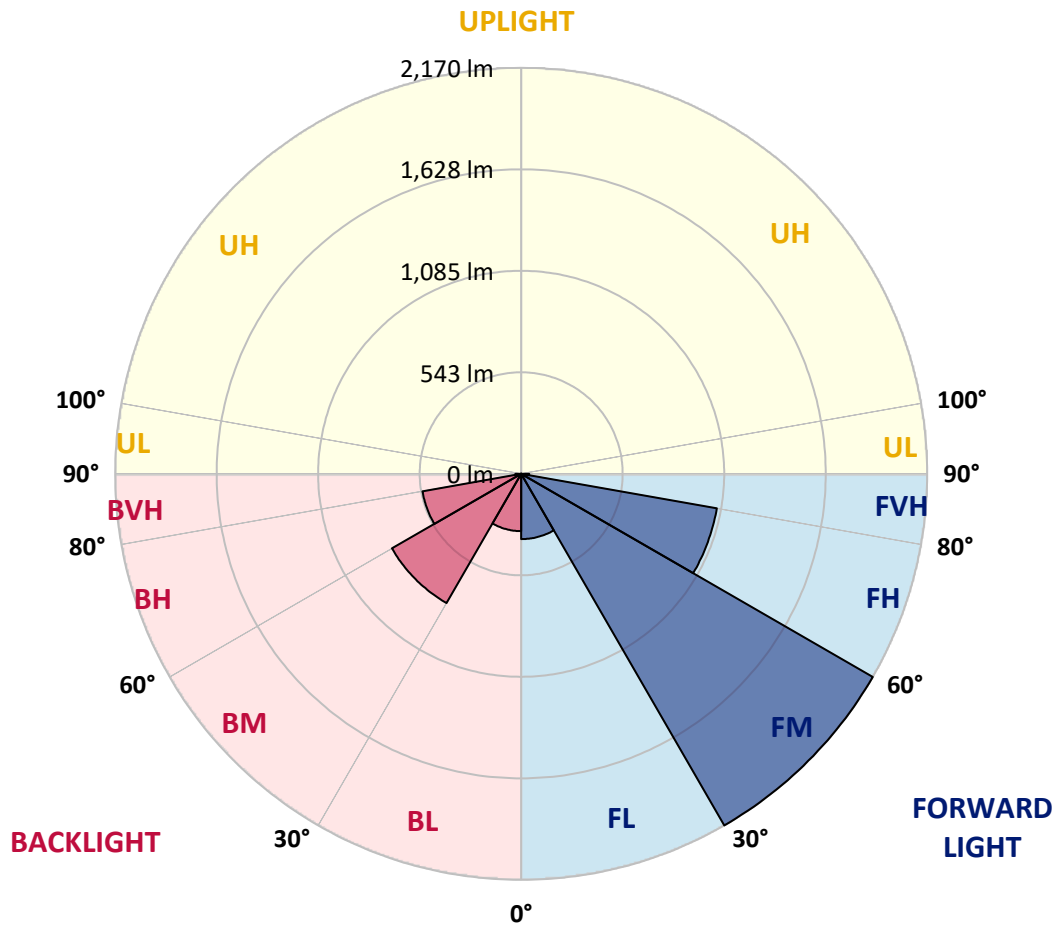
CATALOG NUMBER: GALN-SB1B-727-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	349.0	6.6			
FM	(30°-60°)	2170.1	41.0			
FH	(60°-80°)	1062.0	20.1			G1/1800
FVH	(80°-90°)	43.0	0.8			G1/100
BL	(0°-30°)	306.4	5.8	B1/500		
BM	(30°-60°)	797.6	15.1	B1/1000		
BH	(60°-80°)	536.0	10.1	B2/1000		G2/1000
BVH	(80°-90°)	30.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P945224

CATALOG NUMBER: GALN-SB1B-727-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5
2.5°	579.6	578.0	579.4	579.4	579.9	579.6	581.6	582.1	582.9	584.6	584.6
5°	573.9	573.6	576.1	578.3	580.5	582.4	584.9	588.4	589.0	590.9	593.4
7.5°	571.9	570.3	574.1	576.9	582.1	586.8	593.4	599.4	601.9	602.7	607.4
10°	586.8	584.0	587.6	589.3	593.7	598.3	606.0	615.6	618.4	621.7	626.9
12.5°	612.1	609.0	614.3	616.7	620.8	625.0	630.2	639.5	640.9	646.9	651.9
15°	646.7	643.1	646.4	649.4	656.3	660.1	665.3	674.4	674.4	679.1	682.7
17.5°	693.6	689.0	691.4	692.5	696.9	702.7	711.5	719.5	723.6	721.9	717.0
20°	763.7	757.9	757.9	752.4	750.8	755.5	767.0	778.0	782.4	773.9	761.8
22.5°	868.9	860.7	856.0	837.3	829.9	830.5	842.0	855.4	859.0	843.9	816.7
25°	1002.7	989.8	983.5	956.0	939.2	924.7	933.7	951.0	956.0	937.3	893.4
27.5°	1136.5	1137.3	1131.3	1098.3	1070.5	1043.9	1039.2	1057.4	1062.6	1041.4	987.0
30°	1324.1	1304.6	1293.1	1253.5	1213.9	1176.6	1157.4	1164.8	1166.1	1140.9	1077.7
32.5°	1485.9	1481.0	1456.2	1421.6	1370.8	1312.3	1280.2	1268.3	1266.1	1230.2	1155.2
35°	1670.2	1667.5	1641.4	1600.2	1545.2	1463.9	1406.0	1372.2	1369.4	1318.9	1231.8
37.5°	1857.6	1857.6	1832.0	1787.0	1730.1	1628.5	1540.3	1486.7	1477.9	1412.0	1309.8
40°	2007.0	1998.0	2002.6	1983.7	1918.6	1810.6	1689.5	1611.7	1599.9	1520.8	1392.8
42.5°	2091.9	2088.9	2116.9	2138.1	2111.4	2025.2	1853.7	1747.2	1730.7	1640.6	1488.4
45°	2110.9	2107.6	2157.6	2235.0	2272.4	2237.0	2032.3	1889.7	1869.7	1765.8	1590.9
47.5°	2067.2	2060.6	2134.0	2256.2	2376.0	2438.3	2225.7	2044.4	2015.3	1887.8	1696.1
50°	1935.9	1929.6	2040.6	2202.9	2410.9	2575.1	2435.6	2208.4	2163.9	2018.6	1802.4
52.5°	1650.5	1653.5	1827.4	2050.4	2365.0	2660.3	2616.3	2381.2	2327.6	2152.4	1902.1
55°	1285.6	1292.2	1506.0	1751.6	2181.5	2647.4	2739.7	2559.2	2505.9	2278.2	2005.1
57.5°	920.6	949.7	1149.9	1393.1	1829.0	2442.7	2766.6	2728.4	2676.8	2415.5	2105.9
60°	596.7	601.9	807.9	1053.0	1392.8	2079.0	2711.9	2856.7	2816.3	2555.6	2190.3
62.5°	382.4	386.0	511.5	736.5	1002.4	1538.1	2527.9	2912.5	2900.1	2648.2	2271.3
65°	281.0	278.3	343.7	486.8	675.2	948.6	2170.5	2885.6	2910.0	2706.2	2338.3
67.5°	234.6	230.8	262.9	337.1	497.5	538.7	1606.0	2710.6	2800.1	2699.6	2387.5
70°	213.7	210.4	229.9	250.3	388.2	360.7	809.6	2356.5	2494.4	2624.6	2379.5
72.5°	181.0	175.3	201.9	222.2	301.9	276.6	334.6	1810.1	1978.2	2384.2	2267.5
75°	140.4	136.5	159.3	195.6	226.9	215.9	211.5	1099.1	1282.6	1843.9	1983.7
77.5°	111.3	106.0	126.9	152.5	204.1	162.9	154.1	473.3	655.2	1177.1	1484.3
80°	83.8	79.1	96.4	120.6	156.9	122.8	99.7	193.1	247.0	596.4	746.4
82.5°	59.6	55.5	67.3	88.5	105.5	110.2	61.3	108.2	121.7	229.9	166.7
85°	38.2	35.7	45.1	55.5	67.0	70.9	37.4	56.6	62.1	94.8	69.5
87.5°	20.9	17.0	24.2	25.8	31.0	28.3	17.9	20.6	22.3	34.3	29.4
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: P945224

CATALOG NUMBER: GALN-SB1B-727-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5	583.5
2.5°	585.7	586.5	589.3	590.1	592.0	594.5	596.1	597.8	597.8	599.4	599.4
5°	593.7	595.6	601.3	604.4	609.3	614.3	617.3	620.8	623.0	624.1	624.7
7.5°	609.0	612.1	620.3	625.5	634.0	640.9	645.6	650.5	651.6	654.6	653.5
10°	629.9	633.5	642.8	652.7	662.9	671.4	675.8	679.4	680.7	681.3	679.9
12.5°	653.8	659.0	671.1	683.2	693.9	701.3	702.4	701.6	697.8	694.5	694.5
15°	683.2	687.9	701.3	714.5	725.0	726.3	719.5	715.1	710.4	709.6	709.6
17.5°	718.4	720.8	733.2	746.1	746.9	742.3	732.1	728.0	723.6	720.6	720.8
20°	759.3	758.5	767.3	772.8	767.0	752.7	737.3	730.5	726.1	722.5	722.8
22.5°	808.2	801.9	800.8	799.4	784.0	754.1	733.2	724.4	717.5	712.6	714.2
25°	879.3	855.2	838.4	829.1	794.5	746.7	720.0	700.5	687.6	679.1	682.4
27.5°	968.4	927.7	885.4	862.6	794.5	731.6	688.2	656.6	635.4	626.6	631.0
30°	1053.2	1010.7	948.3	903.0	792.5	706.8	636.8	592.8	568.1	559.3	564.5
32.5°	1125.8	1079.3	1015.1	947.2	787.9	666.7	573.0	524.4	500.5	490.1	495.3
35°	1193.1	1143.6	1082.1	995.8	775.5	607.9	503.0	465.9	439.3	422.5	428.0
37.5°	1262.0	1203.2	1145.5	1039.8	753.3	539.3	449.2	417.6	386.2	363.7	369.8
40°	1337.0	1266.7	1213.4	1065.9	716.7	473.9	407.4	378.6	345.3	321.4	326.1
42.5°	1424.7	1342.8	1288.9	1079.3	666.7	427.5	380.2	351.9	320.6	301.1	304.9
45°	1516.1	1426.6	1357.9	1079.1	611.0	405.7	371.4	343.4	308.8	288.4	291.7
47.5°	1612.0	1514.2	1417.5	1061.5	562.6	408.8	366.5	325.0	286.8	267.0	269.8
50°	1708.2	1610.1	1475.2	1028.5	542.0	402.2	348.1	299.2	254.1	236.3	237.4
52.5°	1803.5	1712.0	1524.9	981.5	521.1	377.7	324.4	265.6	240.6	228.3	228.3
55°	1899.4	1812.8	1579.0	913.1	468.9	349.2	284.9	253.0	229.9	218.7	217.6
57.5°	1995.5	1929.3	1630.4	844.7	403.3	314.0	263.2	237.6	219.2	209.6	208.0
60°	2095.5	2062.5	1683.4	781.8	338.4	268.9	247.2	225.3	206.6	195.9	195.0
62.5°	2198.5	2209.2	1724.9	700.8	278.8	241.5	233.0	210.4	192.3	182.1	181.9
65°	2302.4	2350.7	1752.1	588.4	226.1	215.4	217.6	194.2	175.8	167.0	166.7
67.5°	2380.6	2452.6	1744.4	445.3	185.4	190.6	198.3	177.2	159.9	153.0	153.3
70°	2389.4	2440.5	1668.6	304.9	155.2	166.5	176.9	160.4	142.6	137.6	137.9
72.5°	2272.4	2275.7	1457.3	199.2	131.3	146.1	154.4	143.4	126.1	121.1	120.9
75°	1965.6	1882.0	1070.0	131.3	109.9	125.5	133.2	125.5	108.8	109.9	106.0
77.5°	1489.2	1332.9	649.7	93.4	91.8	105.5	115.9	110.4	96.1	108.0	95.0
80°	767.3	721.1	289.8	69.8	72.5	84.3	95.3	88.2	76.1	72.5	66.2
82.5°	175.8	204.4	114.3	50.0	52.5	60.7	72.8	66.2	54.7	46.2	45.6
85°	61.5	67.3	50.5	31.3	30.8	37.9	49.4	44.2	37.1	29.7	31.3
87.5°	19.5	25.5	19.0	12.6	13.2	17.0	22.8	20.9	17.3	11.3	11.8
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)