

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: P938892

Luminaire Tested: **GALN-SB1B-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
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-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5179 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - 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



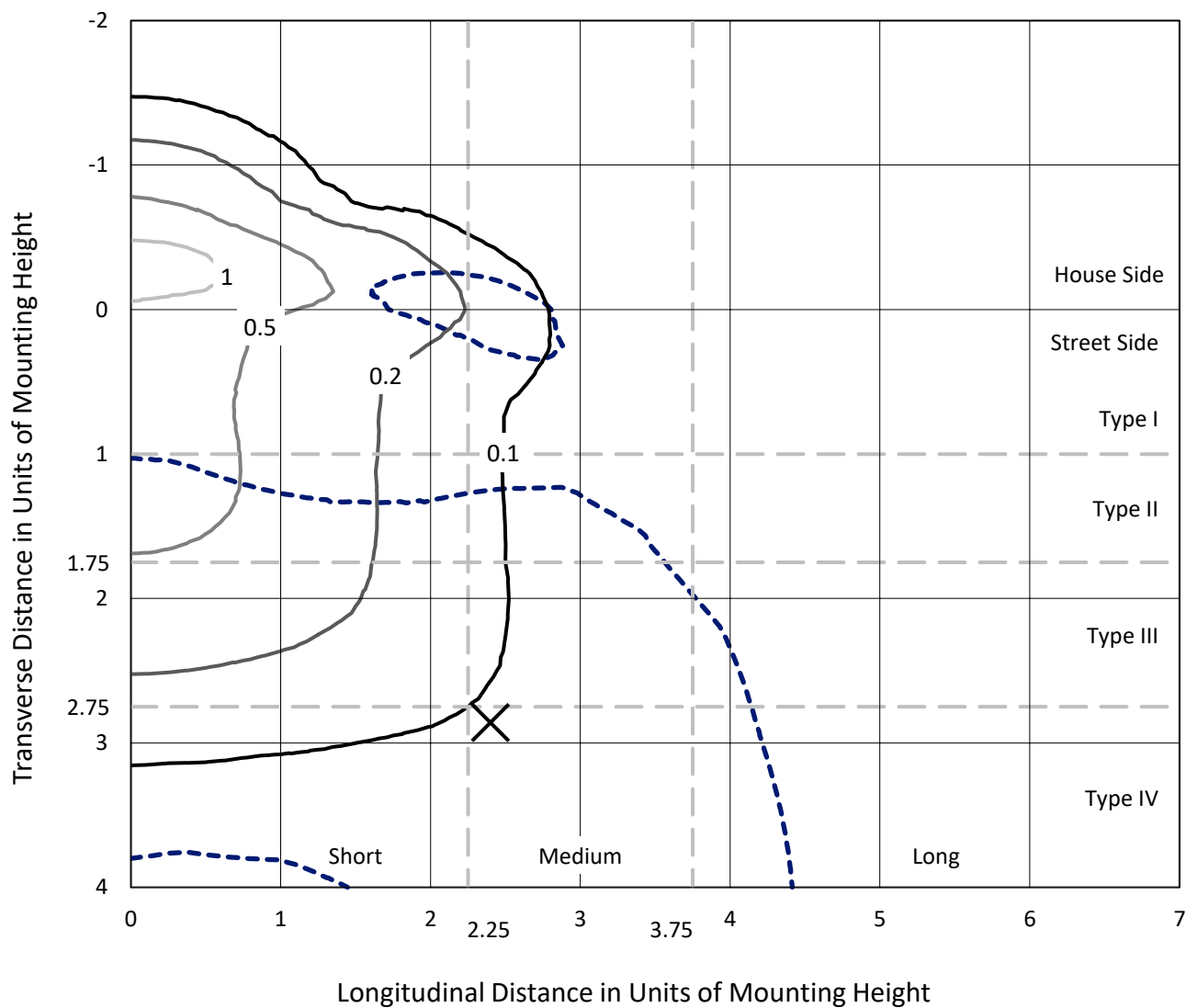
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

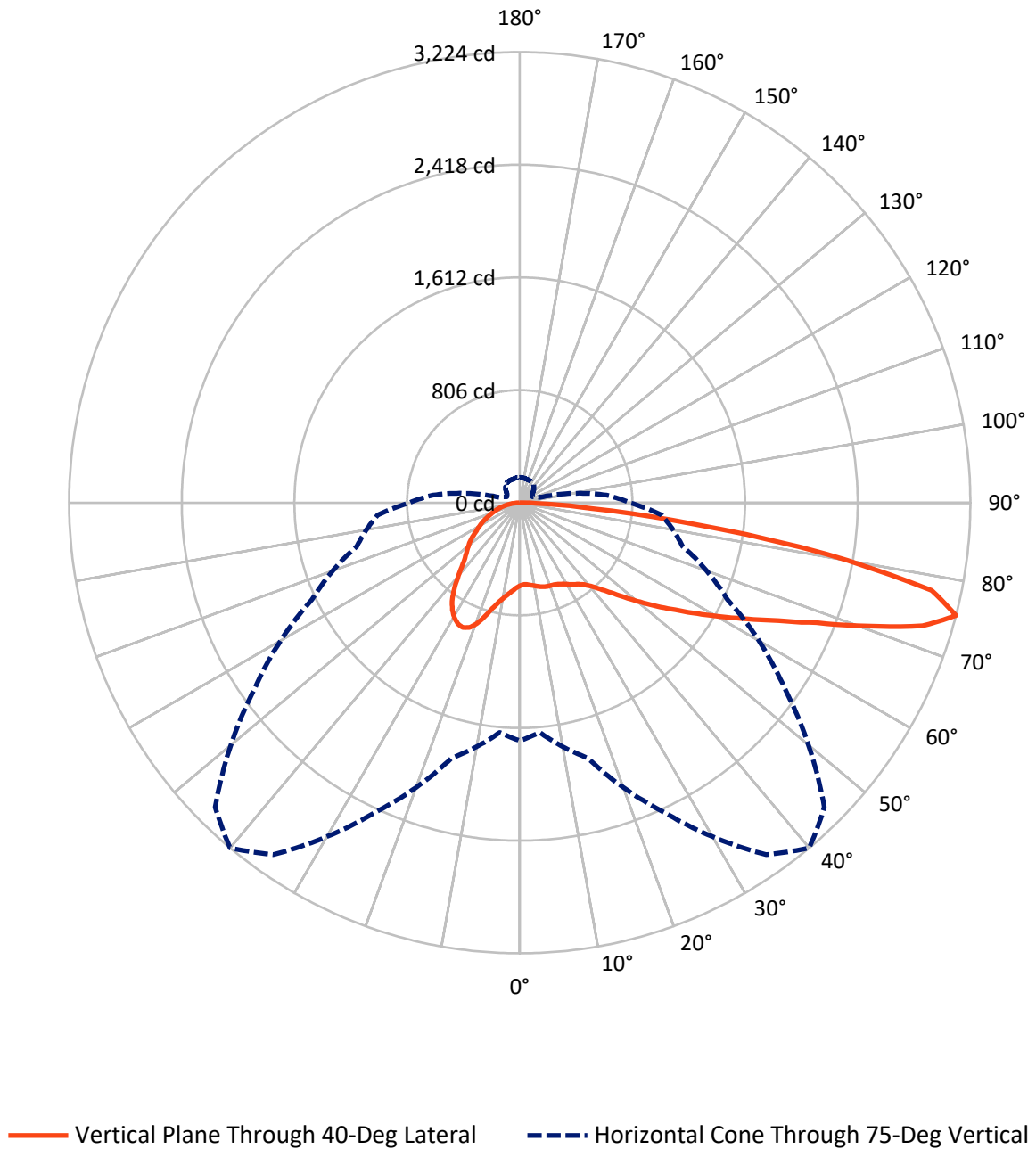


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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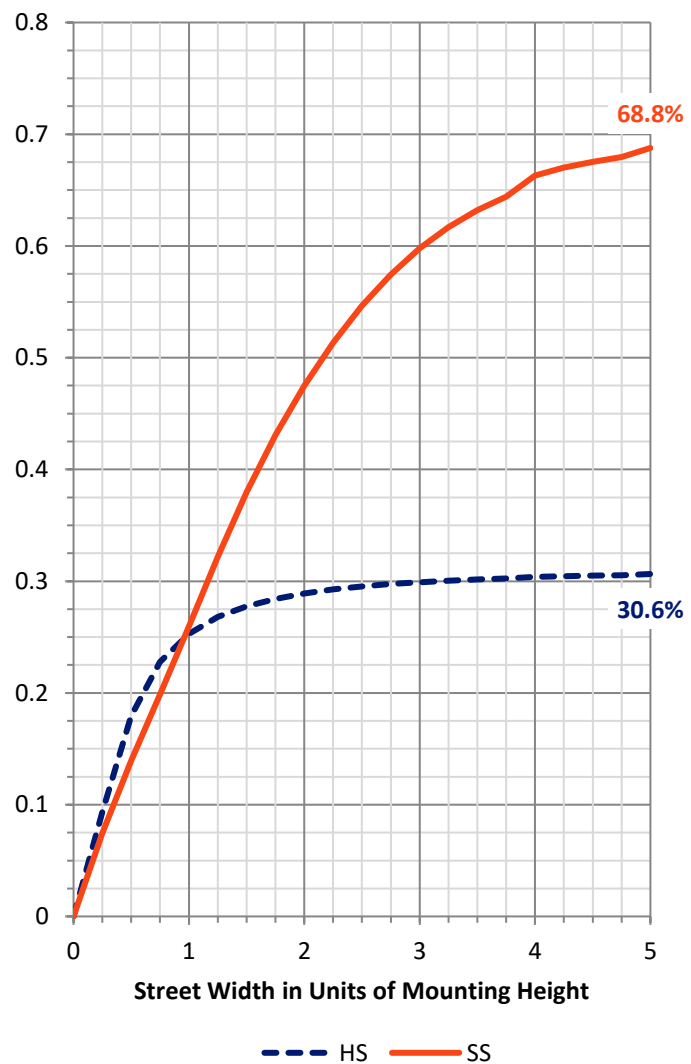
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1604.6	0.0	1604.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	3574.4	0.0	3574.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	5179.0	0.0	5179.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	1.1
10°-20°	198.5	3.8
20°-30°	362.4	7.0
30°-40°	514.0	9.9
40°-50°	694.0	13.4
50°-60°	933.7	18.0
60°-70°	1185.0	22.9
70°-80°	1075.5	20.8
80°-90°	156.8	3.0
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°	5179.0	100.0
0°-180°	5179.0	100.0

Coefficient of Utilization



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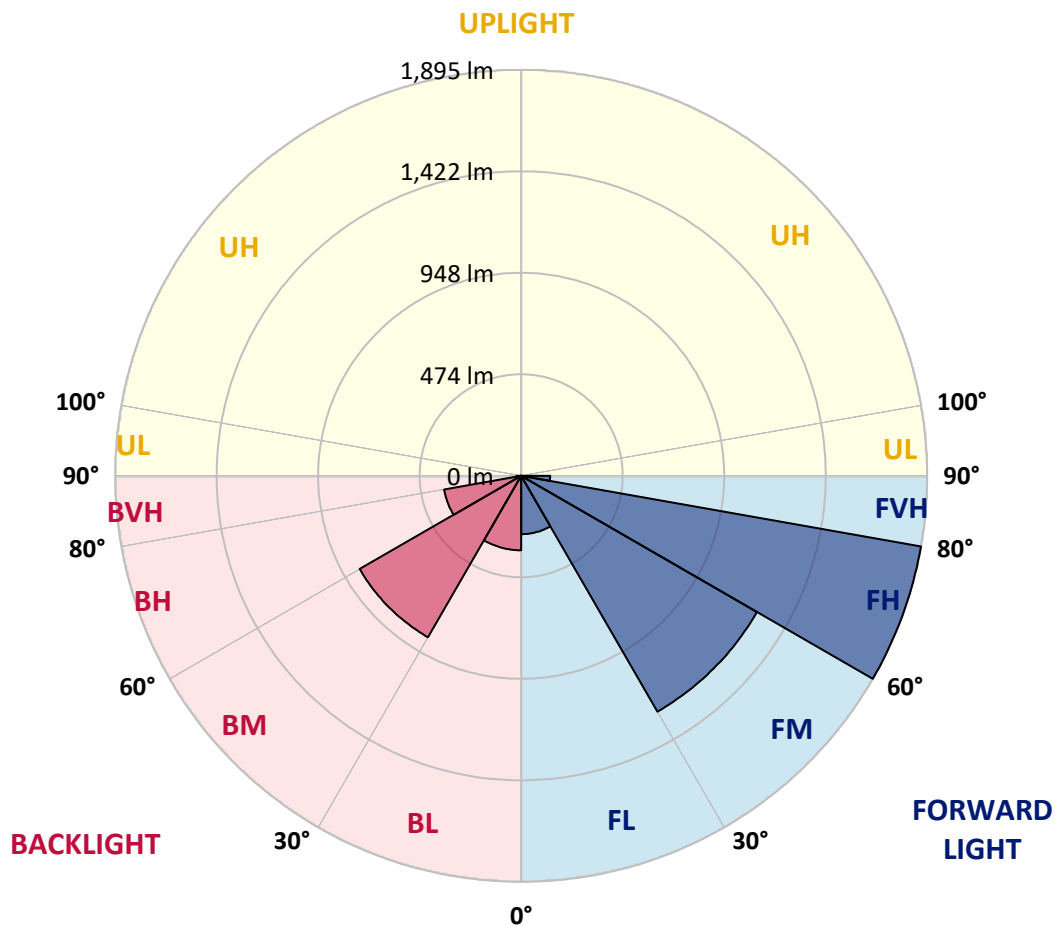
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	272.4	5.3			
FM	(30°-60°)	1271.3	24.5			
FH	(60°-80°)	1895.4	36.6			G2/5000
FVH	(80°-90°)	135.2	2.6			G2/225
BL	(0°-30°)	347.6	6.7	B1/500		
BM	(30°-60°)	870.4	16.8	B1/1000		
BH	(60°-80°)	365.1	7.0	B1/500		G1/500
BVH	(80°-90°)	21.6	0.4			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	592.2	592.2	592.2	592.2	592.2	592.2	592.2	592.2	592.2	592.2	592.2
2.5°	583.2	586.5	585.6	584.5	584.5	584.8	584.5	586.5	588.4	590.3	593.3
5°	589.2	592.5	590.9	589.5	588.4	588.1	587.3	587.0	588.1	590.6	594.7
7.5°	601.0	604.3	601.8	599.4	597.2	596.1	595.0	593.3	592.5	593.9	599.6
10°	614.2	617.5	614.5	610.1	606.5	605.1	604.0	602.4	601.3	602.1	608.4
12.5°	627.4	630.7	626.6	620.5	615.8	615.0	613.7	613.1	612.8	612.6	618.9
15°	639.7	642.5	637.3	630.1	625.2	623.8	622.4	623.3	624.6	626.3	633.4
17.5°	649.4	652.1	644.4	635.1	630.4	629.9	629.0	631.8	635.6	639.7	648.5
20°	658.2	660.9	651.0	638.4	632.9	632.9	633.2	638.9	644.4	650.5	662.5
22.5°	670.5	672.7	660.6	643.3	635.4	635.9	638.1	643.9	650.7	659.0	675.7
25°	688.9	690.6	675.7	652.7	643.6	645.2	647.2	649.9	656.5	666.1	688.6
27.5°	718.6	720.0	700.5	669.1	655.4	658.2	660.9	659.0	662.0	670.2	699.1
30°	760.3	761.2	736.4	695.0	675.5	676.8	677.4	669.4	663.6	670.2	706.5
32.5°	809.8	809.5	780.1	726.3	698.3	696.9	692.2	676.6	663.1	668.9	713.1
35°	886.4	883.4	845.5	770.2	724.1	715.6	704.6	684.5	665.8	667.5	718.9
37.5°	1013.3	1004.0	951.5	842.2	762.5	740.8	724.6	697.4	671.9	666.9	725.7
40°	1156.4	1144.6	1086.9	940.8	820.2	785.3	759.2	715.8	681.8	669.4	735.9
42.5°	1326.2	1309.4	1247.4	1057.0	893.3	842.7	803.5	739.2	696.3	677.4	749.6
45°	1534.7	1512.4	1424.5	1188.0	985.3	918.0	865.5	774.6	718.6	692.8	770.2
47.5°	1745.4	1750.9	1625.9	1338.0	1095.7	1010.8	943.3	827.9	751.0	717.5	803.5
50°	1969.2	1973.1	1826.1	1504.2	1221.0	1115.8	1030.6	887.5	796.0	752.6	853.2
52.5°	2143.9	2144.5	2008.0	1678.1	1351.5	1231.1	1124.8	955.6	848.2	799.3	919.4
55°	2253.3	2251.9	2135.4	1842.6	1501.4	1352.3	1229.2	1033.1	912.0	854.3	1002.6
57.5°	2332.6	2328.5	2223.3	1984.1	1661.3	1495.4	1347.3	1121.0	987.2	919.7	1112.2
60°	2362.9	2360.4	2282.9	2106.3	1829.4	1653.6	1483.6	1219.3	1072.7	996.8	1253.1
62.5°	2374.4	2379.1	2341.4	2224.7	2009.3	1828.9	1633.3	1336.9	1168.8	1084.2	1401.7
65°	2415.0	2423.6	2415.9	2379.6	2212.6	2034.1	1831.9	1476.7	1273.7	1177.9	1556.9
67.5°	2495.5	2504.0	2507.3	2565.0	2460.9	2289.8	2079.7	1650.9	1396.5	1275.1	1673.7
70°	2493.6	2491.1	2549.4	2712.5	2771.9	2643.9	2413.7	1865.1	1542.9	1355.9	1688.5
72.5°	2269.7	2250.0	2387.6	2710.9	3030.6	3013.6	2821.6	2141.5	1669.3	1365.7	1465.2
75°	1702.8	1650.0	1893.1	2443.1	3073.7	3223.5	3080.9	2312.9	1639.3	1206.7	1019.6
77.5°	728.2	675.2	961.7	1808.5	2751.0	3013.3	2843.0	2017.9	1308.6	798.0	500.8
80°	190.6	190.4	290.6	819.9	1870.9	2225.2	1952.2	1303.1	747.7	285.1	138.2
82.5°	78.8	76.9	106.9	318.9	914.2	1248.7	1019.1	581.2	270.0	77.2	45.9
85°	29.4	29.1	51.9	110.1	322.5	515.0	372.8	148.6	67.3	37.6	20.6
87.5°	8.2	8.0	11.3	38.2	78.6	119.2	63.7	24.4	19.0	14.8	6.0
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°	592.2	592.2	592.2	592.2	592.2	592.2	592.2	592.2	592.2	592.2	592.2
2.5°	594.1	595.5	598.0	599.9	602.4	605.1	609.0	611.5	613.9	615.6	614.5
5°	596.6	599.6	606.0	612.3	619.7	626.6	634.5	640.3	645.0	646.3	646.9
7.5°	602.1	607.1	617.8	628.5	640.3	651.6	663.1	673.0	680.9	684.0	684.2
10°	611.7	618.3	633.4	648.5	664.2	681.5	696.3	710.6	721.9	726.5	726.8
12.5°	623.8	632.1	651.8	672.7	694.4	718.3	737.5	755.1	769.1	775.4	775.4
15°	639.5	650.2	675.5	703.5	735.3	768.6	793.0	812.5	828.2	835.9	835.3
17.5°	656.5	670.8	702.6	745.0	790.5	834.2	862.8	877.1	893.3	900.7	900.4
20°	673.0	690.6	736.2	797.7	858.4	904.8	927.9	931.7	932.8	933.7	935.9
22.5°	690.0	713.6	778.2	864.2	929.3	961.4	964.7	948.2	925.1	914.4	917.5
25°	708.7	740.0	833.1	937.5	990.2	994.1	968.8	928.7	885.0	865.0	868.0
27.5°	726.8	770.5	899.1	1007.6	1034.2	1000.4	946.0	889.2	836.4	815.3	817.7
30°	745.0	805.4	971.8	1068.8	1054.2	984.8	910.0	846.6	793.6	771.3	773.8
32.5°	763.4	846.0	1055.6	1113.0	1050.7	951.5	865.3	798.8	752.1	728.7	731.8
35°	784.2	896.0	1135.0	1137.2	1026.8	902.6	806.2	741.7	701.0	682.3	686.4
37.5°	811.4	959.5	1205.1	1143.2	985.0	830.9	732.9	674.1	640.6	632.1	638.1
40°	845.2	1035.8	1258.6	1133.6	923.2	743.9	652.7	605.7	586.7	588.7	595.2
42.5°	889.2	1121.3	1296.2	1108.9	837.2	654.0	582.3	561.5	570.5	578.2	585.4
45°	946.3	1210.0	1319.6	1066.9	740.0	577.9	540.9	545.8	552.7	553.5	559.0
47.5°	1019.4	1299.8	1335.0	1003.4	640.8	524.4	514.5	515.6	514.2	508.4	512.8
50°	1110.6	1387.2	1348.7	919.4	556.5	490.9	477.7	473.8	454.9	436.2	438.7
52.5°	1214.4	1467.4	1354.5	815.0	490.9	462.8	441.4	417.2	381.8	376.0	378.0
55°	1329.8	1541.5	1339.6	686.7	435.7	426.9	394.5	365.3	361.5	356.5	357.4
57.5°	1467.7	1621.5	1309.4	543.6	379.1	384.8	353.2	356.5	349.7	342.0	340.6
60°	1618.5	1704.2	1256.4	413.1	320.6	332.4	342.5	342.3	340.3	334.0	331.8
62.5°	1754.2	1758.5	1152.0	316.4	269.2	291.7	319.5	319.2	317.5	314.0	312.6
65°	1834.9	1750.3	977.9	249.1	226.9	258.2	288.1	290.3	290.6	290.3	290.3
67.5°	1820.6	1653.9	738.9	198.3	192.0	224.1	257.1	260.1	262.3	262.9	263.4
70°	1659.1	1442.1	481.8	158.2	161.0	194.2	227.7	230.7	232.7	234.9	236.0
72.5°	1293.2	1060.3	275.8	128.0	133.8	168.4	198.6	202.2	203.3	207.4	209.0
75°	788.1	623.5	148.9	100.8	109.9	143.9	169.8	173.9	175.8	180.7	181.3
77.5°	374.7	270.0	84.9	78.6	88.4	117.6	143.4	148.1	142.8	145.6	143.4
80°	126.6	100.3	53.6	59.9	67.6	91.7	114.8	119.5	108.5	108.0	106.9
82.5°	44.2	40.7	34.1	39.8	43.7	65.7	86.8	92.8	80.8	80.5	76.6
85°	17.3	16.5	19.0	21.7	26.1	40.4	57.1	60.2	49.7	40.1	39.6
87.5°	3.6	3.8	4.7	4.9	8.0	14.0	20.6	25.3	20.1	17.0	15.7
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)