

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: P945205

Luminaire Tested: **GALN-SB1B-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-722-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4777 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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

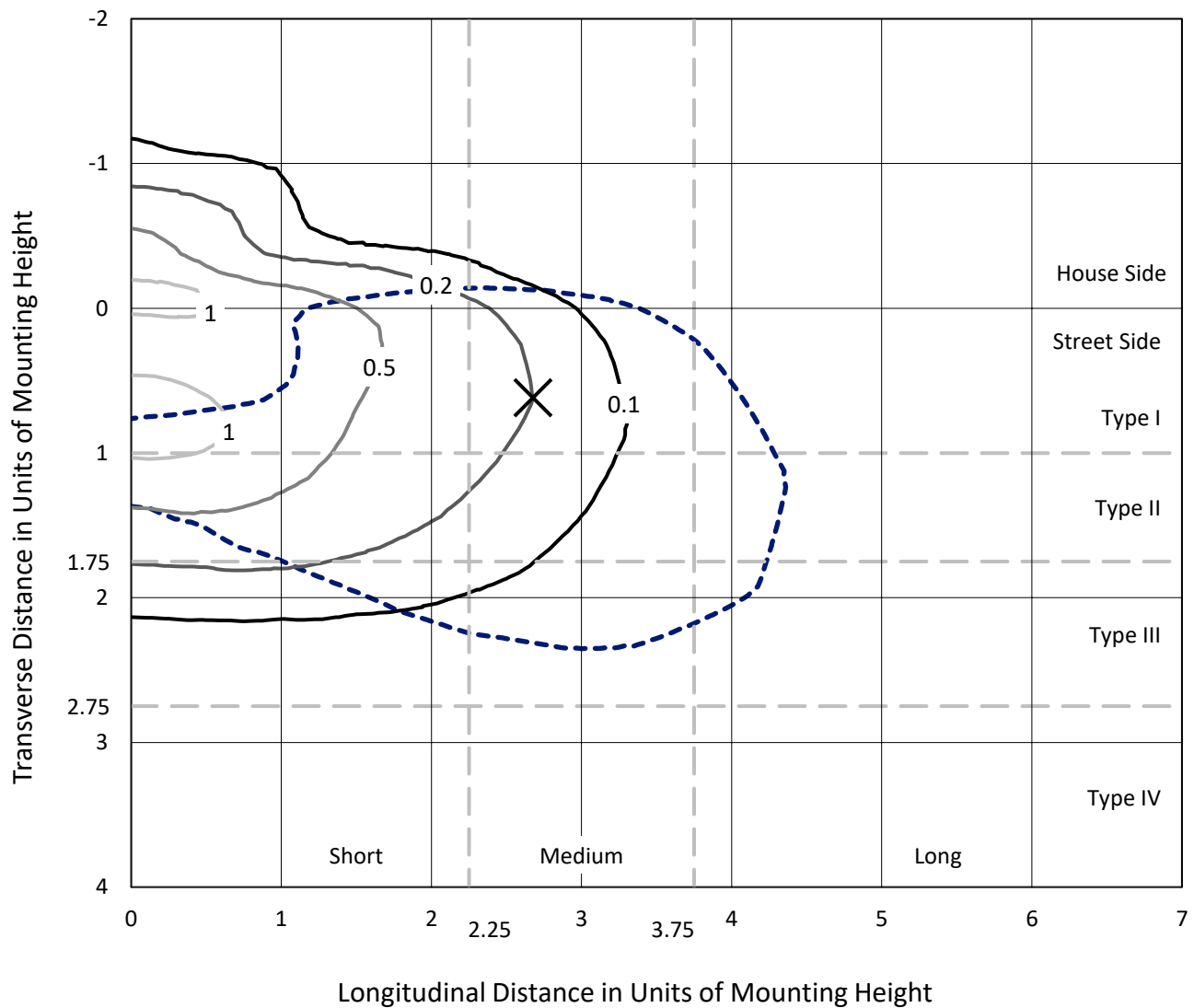


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Iso-Footcandle Lines of Horizontal Illumination

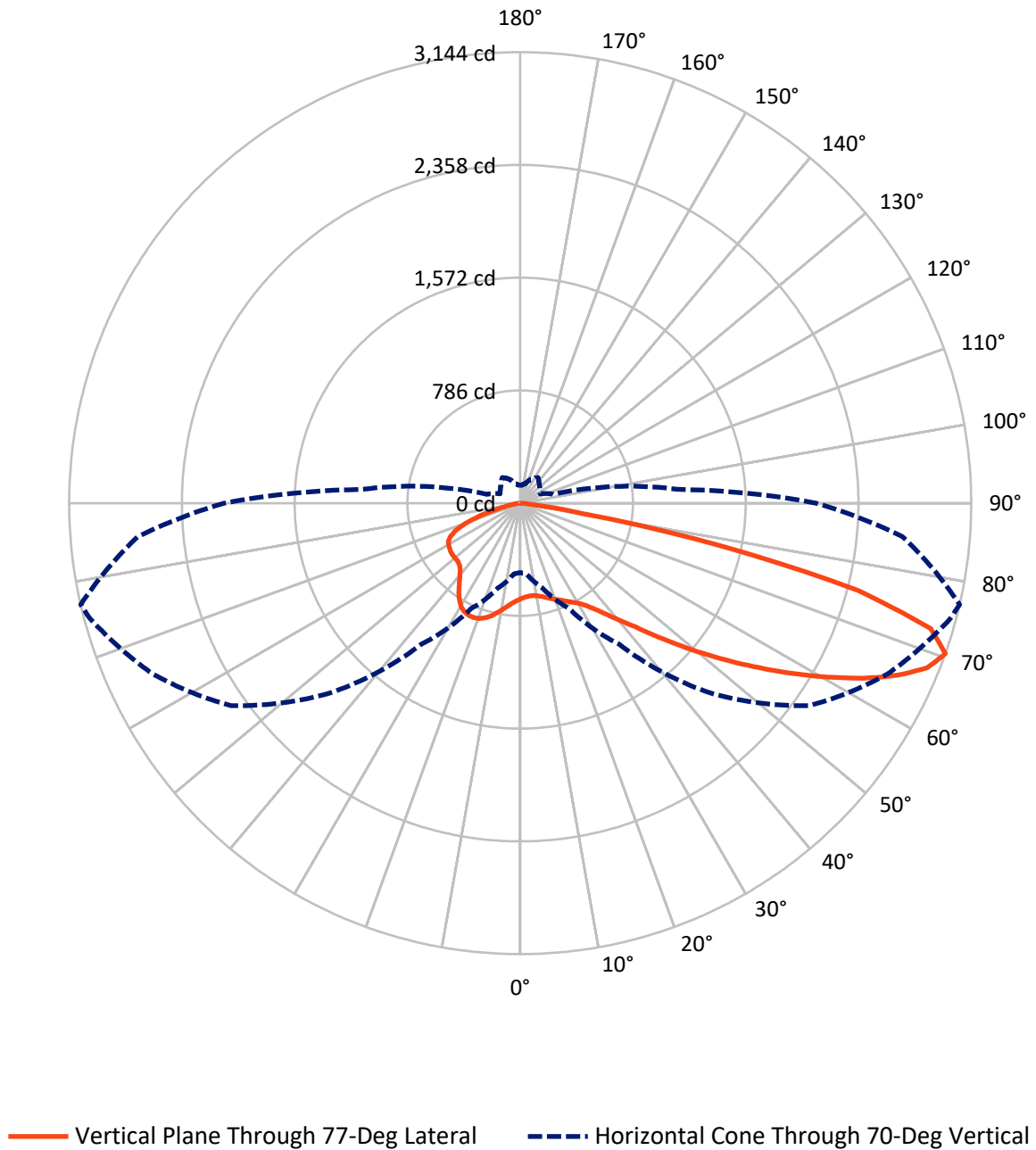
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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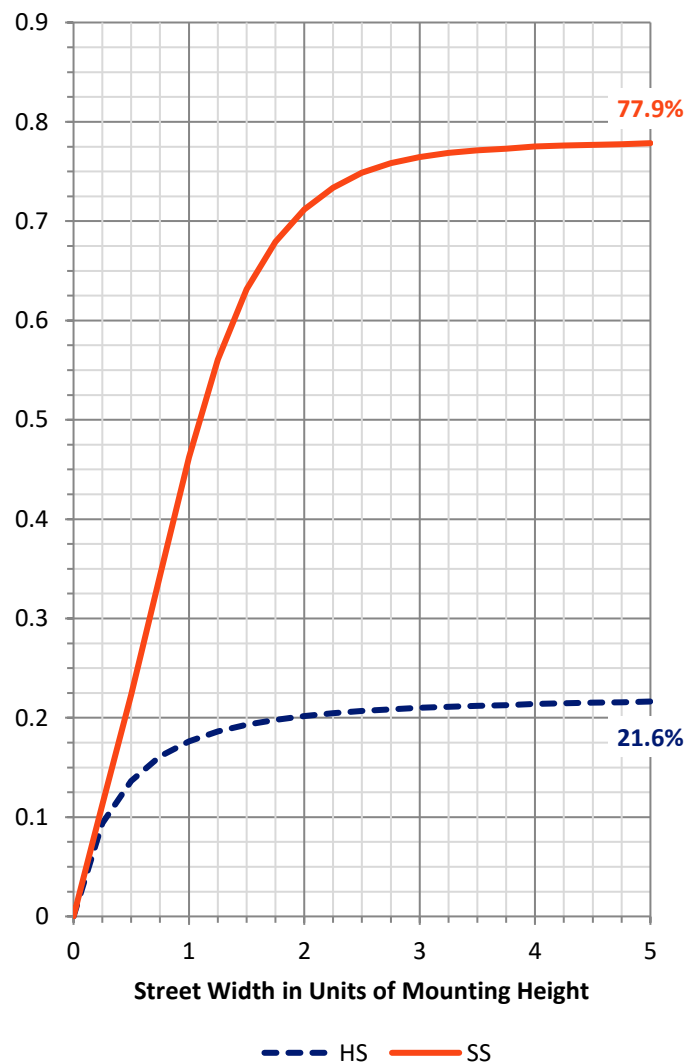
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1046.1	0.0	1046.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3730.9	0.0	3730.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	4777.0	0.0	4777.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	1.3
10°-20°	183.4	3.8
20°-30°	313.7	6.6
30°-40°	504.5	10.6
40°-50°	787.6	16.5
50°-60°	1052.1	22.0
60°-70°	1121.3	23.5
70°-80°	690.3	14.5
80°-90°	60.5	1.3
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°	4777.0	100.0
0°-180°	4777.0	100.0

Coefficient of Utilization



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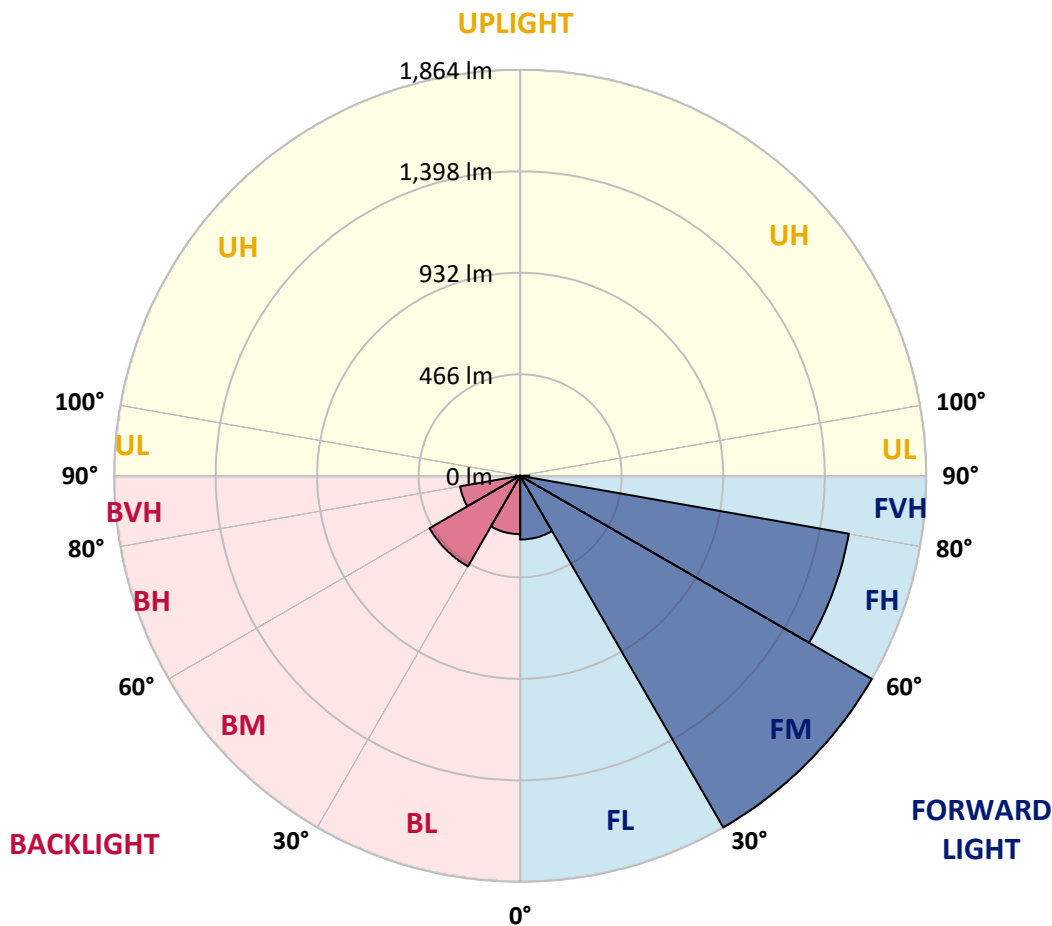
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	292.7	6.1			
FM	(30°-60°)	1863.9	39.0			
FH	(60°-80°)	1532.1	32.1			G1/1800
FVH	(80°-90°)	42.3	0.9			G1/100
BL	(0°-30°)	268.0	5.6	B1/500		
BM	(30°-60°)	480.3	10.1	B1/1000		
BH	(60°-80°)	279.6	5.9	B1/500		G1/500
BVH	(80°-90°)	18.2	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-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4
2.5°	614.3	614.1	617.3	618.2	624.1	628.3	636.1	644.4	655.2	656.4	663.0
5°	578.8	578.8	582.5	586.4	594.0	602.3	614.3	628.8	647.4	650.3	666.7
7.5°	548.8	550.7	553.9	561.5	570.3	582.3	600.6	621.2	645.6	650.3	676.7
10°	524.5	526.7	530.7	536.8	550.0	566.6	590.6	617.0	649.8	657.1	691.4
12.5°	517.0	519.2	521.4	526.0	538.2	557.8	586.4	619.0	659.8	667.2	711.5
15°	534.6	537.3	535.5	534.3	540.7	558.5	588.4	626.1	672.3	682.8	736.2
17.5°	575.2	576.2	572.2	560.7	559.8	569.3	597.7	635.9	688.0	699.5	761.1
20°	640.7	639.0	631.0	608.2	595.2	593.3	613.6	650.5	704.1	716.3	788.0
22.5°	729.8	727.8	711.7	675.7	646.9	627.8	636.6	669.6	722.2	735.9	814.2
25°	840.9	838.2	814.5	765.5	720.7	673.5	667.9	694.8	744.5	757.2	841.6
27.5°	970.5	968.3	942.6	878.1	813.5	736.2	706.8	724.4	767.7	782.2	872.4
30°	1110.0	1116.4	1070.8	1001.4	919.7	817.9	759.2	760.9	797.8	810.8	909.9
32.5°	1273.9	1284.9	1230.1	1142.0	1030.5	906.7	825.2	811.8	841.6	852.4	957.1
35°	1436.4	1448.8	1403.3	1306.0	1177.5	1011.4	894.2	870.2	899.8	911.6	1019.7
37.5°	1576.8	1593.4	1569.9	1485.3	1334.8	1137.6	984.2	939.0	971.5	986.2	1103.9
40°	1687.6	1713.1	1711.3	1658.5	1520.3	1290.8	1098.5	1023.9	1060.6	1076.5	1205.9
42.5°	1777.6	1799.7	1818.8	1816.1	1713.8	1464.7	1232.8	1134.2	1162.1	1180.5	1320.6
45°	1839.8	1863.3	1904.4	1948.7	1900.0	1650.9	1386.7	1265.1	1290.5	1318.2	1457.4
47.5°	1895.3	1922.0	1975.3	2045.5	2058.0	1837.8	1555.3	1417.5	1440.8	1469.4	1594.6
50°	1900.2	1923.2	2005.9	2105.5	2170.3	2017.4	1736.3	1588.5	1610.3	1640.9	1741.7
52.5°	1782.1	1818.3	1962.6	2103.8	2221.9	2167.6	1916.1	1766.4	1790.9	1827.6	1893.9
55°	1383.3	1436.4	1835.6	2038.2	2203.6	2264.8	2087.1	1955.5	1986.8	2025.2	2047.0
57.5°	1191.5	1214.7	1457.2	1918.8	2119.9	2290.0	2231.5	2146.6	2197.0	2239.1	2209.0
60°	1070.8	1090.2	1233.5	1733.1	2009.8	2250.1	2343.0	2324.7	2411.8	2461.9	2374.6
62.5°	941.7	960.0	1090.4	1447.1	1868.9	2183.8	2413.5	2489.1	2632.0	2686.8	2530.7
65°	813.5	829.1	954.1	1215.9	1689.8	2117.5	2450.0	2631.2	2835.8	2892.5	2660.4
67.5°	670.6	683.6	801.7	1025.8	1472.1	2026.7	2468.1	2743.1	3013.1	3061.8	2724.5
70°	483.9	494.0	616.0	811.3	1198.8	1870.6	2460.7	2822.3	3105.1	3144.0	2676.0
72.5°	228.8	237.8	381.2	526.7	846.7	1566.8	2312.2	2759.4	3011.7	2992.4	2379.5
75°	122.1	129.9	219.0	288.9	447.2	1074.0	1892.1	2377.0	2529.0	2435.0	1758.6
77.5°	82.7	88.8	135.5	173.5	204.3	509.9	1216.2	1645.8	1583.4	1428.3	880.8
80°	65.6	71.9	111.1	117.4	98.8	184.2	502.5	761.8	547.3	437.7	250.5
82.5°	50.4	57.5	93.5	85.1	53.8	75.6	146.3	241.0	140.2	106.7	60.7
85°	30.8	38.4	73.4	54.3	30.3	34.5	49.7	67.0	42.8	35.7	21.8
87.5°	15.7	22.0	37.2	19.8	13.7	8.1	13.2	13.2	11.3	9.8	5.6
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°	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4
2.5°	668.9	673.8	682.1	689.9	696.0	701.9	707.8	711.0	711.9	715.9	718.1
5°	676.7	685.8	701.9	717.1	726.6	732.5	736.7	739.1	739.6	740.8	742.8
7.5°	691.1	705.6	728.1	743.3	750.4	749.9	748.1	742.0	739.6	737.4	737.9
10°	711.5	730.5	758.2	768.7	764.3	752.6	737.4	719.5	711.2	703.1	700.7
12.5°	736.7	760.9	788.0	787.5	765.8	735.7	700.4	673.0	655.7	643.2	640.3
15°	767.2	795.1	815.9	799.3	751.6	697.5	645.9	610.2	594.5	580.8	579.3
17.5°	798.8	828.6	838.2	795.6	715.9	641.0	582.5	554.4	539.0	531.6	533.8
20°	829.6	859.2	851.4	774.6	661.5	576.9	524.8	509.4	506.2	507.9	507.2
22.5°	862.2	888.6	854.1	734.0	592.3	511.3	482.7	483.2	490.3	495.4	496.6
25°	895.4	913.3	847.0	675.2	517.9	463.1	456.0	463.9	477.8	487.8	490.5
27.5°	927.5	935.3	831.6	602.6	454.1	428.6	429.9	446.0	467.0	481.0	484.4
30°	963.7	954.9	802.0	520.9	409.8	399.0	409.3	428.1	449.2	461.7	464.6
32.5°	1004.5	971.8	755.0	445.3	378.5	375.3	392.2	404.4	413.7	417.4	419.3
35°	1055.4	995.5	694.8	392.2	350.3	357.9	374.1	368.0	364.3	362.3	364.3
37.5°	1121.5	1027.5	624.4	357.7	327.6	345.5	352.1	333.0	318.5	311.4	313.2
40°	1201.0	1074.5	556.6	331.0	313.2	334.7	323.2	300.2	281.8	271.8	272.5
42.5°	1289.3	1123.7	499.6	311.0	305.1	325.9	301.9	274.5	244.9	241.7	244.9
45°	1382.0	1174.3	460.7	295.5	301.2	318.3	289.7	245.4	224.3	237.3	244.2
47.5°	1474.8	1220.8	437.2	284.0	299.2	309.7	278.9	229.2	214.3	233.2	242.0
50°	1578.0	1262.4	426.7	275.7	297.0	306.3	262.8	225.1	203.8	216.3	225.6
52.5°	1680.5	1294.7	418.8	267.4	293.8	303.6	254.9	220.2	191.1	191.8	196.9
55°	1782.8	1315.7	410.3	256.4	286.7	297.7	254.2	214.8	181.5	178.1	180.6
57.5°	1891.9	1327.7	399.8	244.2	274.5	282.8	253.5	210.6	178.6	173.0	173.7
60°	2003.0	1345.3	386.1	229.2	258.1	265.0	251.7	209.2	176.9	167.3	168.1
62.5°	2102.5	1351.5	369.7	215.1	237.1	247.3	248.1	208.0	172.2	155.8	155.8
65°	2167.9	1325.0	341.0	198.9	214.3	229.2	241.0	203.8	163.9	147.5	147.5
67.5°	2165.2	1249.7	296.3	178.1	192.3	209.2	230.7	196.7	153.9	137.3	138.0
70°	2064.4	1100.9	239.5	153.9	168.1	187.6	217.5	186.2	141.9	126.0	127.5
72.5°	1770.6	861.7	173.9	125.5	139.9	165.4	200.4	173.5	129.7	116.0	115.2
75°	1264.9	545.3	117.9	96.4	108.9	140.2	179.1	158.5	118.4	116.5	109.8
77.5°	646.1	260.6	78.0	70.5	75.8	110.6	150.5	141.7	120.1	96.1	85.6
80°	210.2	96.1	49.2	48.0	50.4	73.6	116.5	116.2	91.0	65.3	57.7
82.5°	67.0	41.3	32.0	30.8	29.6	46.2	81.2	92.0	61.4	41.3	41.1
85°	26.7	24.7	18.8	17.4	12.5	21.8	42.6	61.2	45.8	29.8	30.6
87.5°	9.8	9.8	5.1	3.7	2.7	7.3	11.5	18.3	26.2	15.4	15.2
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)