

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: P946272

Luminaire Tested: **GALN-SB2A-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2A-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7548 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 57.3
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

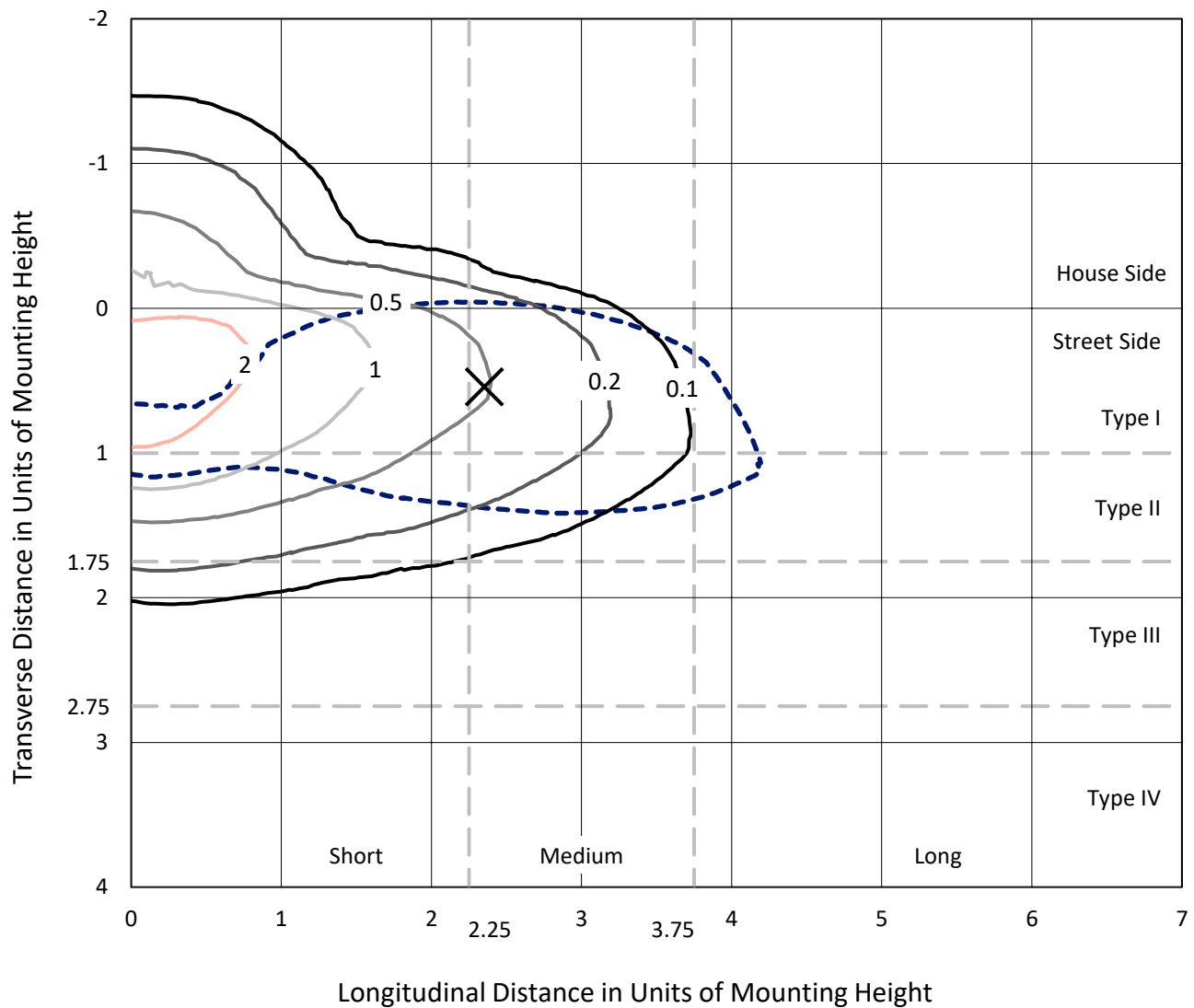


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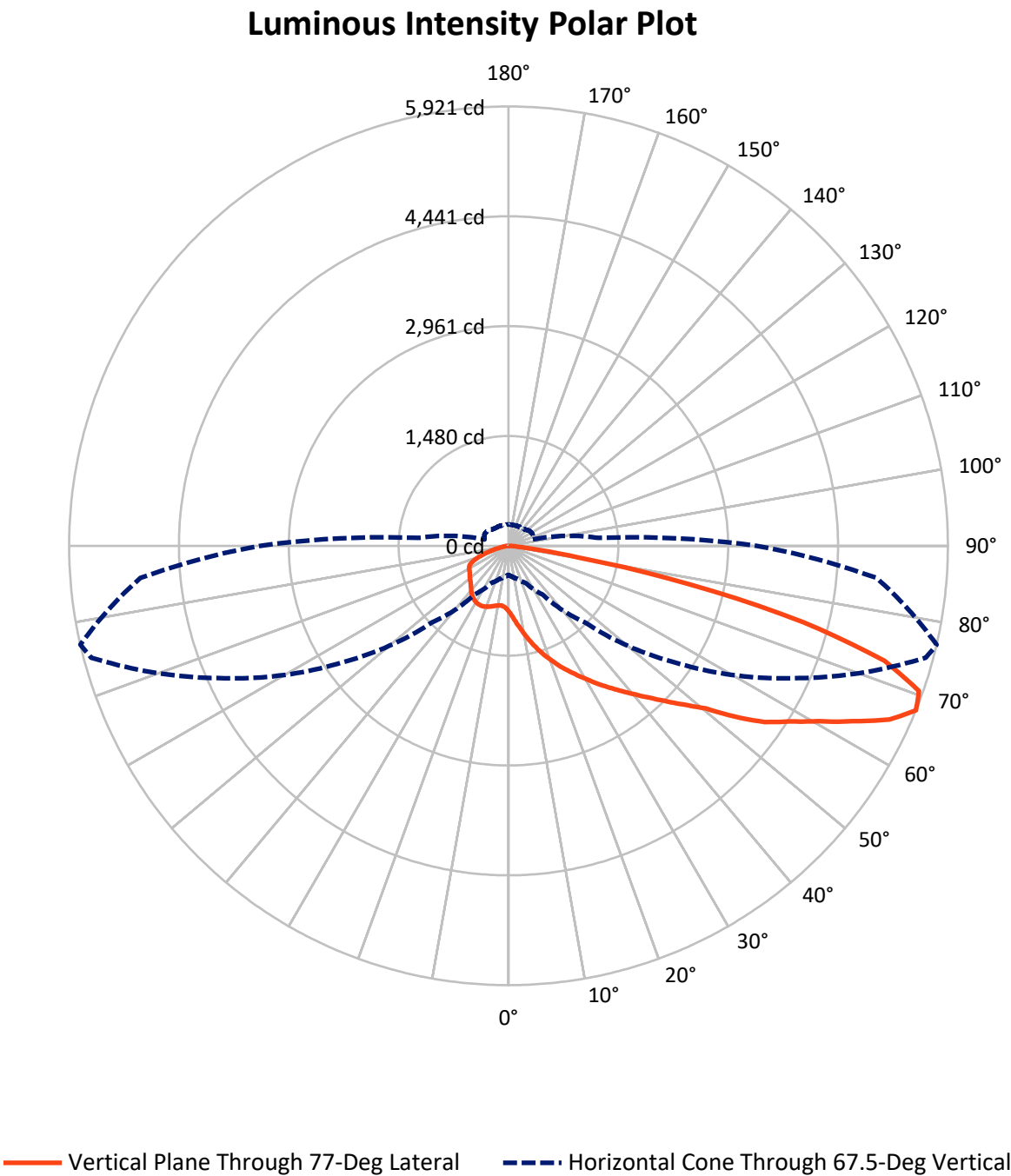
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type II - Medium - N/A

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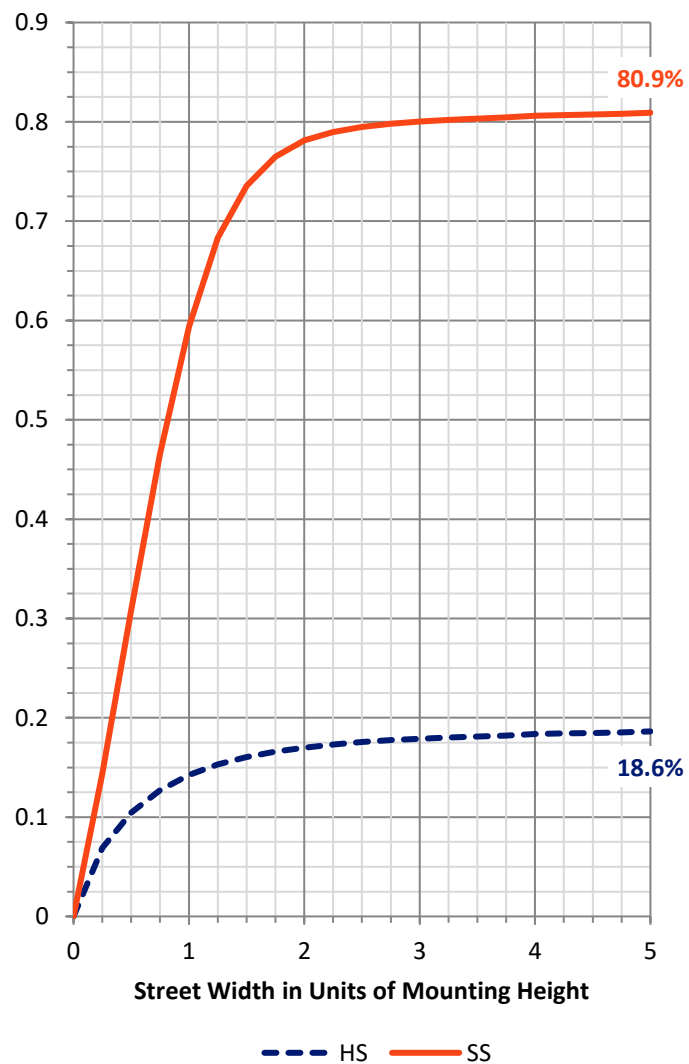
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1427.8	0.0	1427.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	6120.2	0.0	6120.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	7548.0	0.0	7548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	1.3
10°-20°	341.0	4.5
20°-30°	643.9	8.5
30°-40°	1037.3	13.7
40°-50°	1418.9	18.8
50°-60°	1600.5	21.2
60°-70°	1493.8	19.8
70°-80°	818.9	10.8
80°-90°	98.8	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°	7548.0	100.0
0°-180°	7548.0	100.0

Coefficient of Utilization



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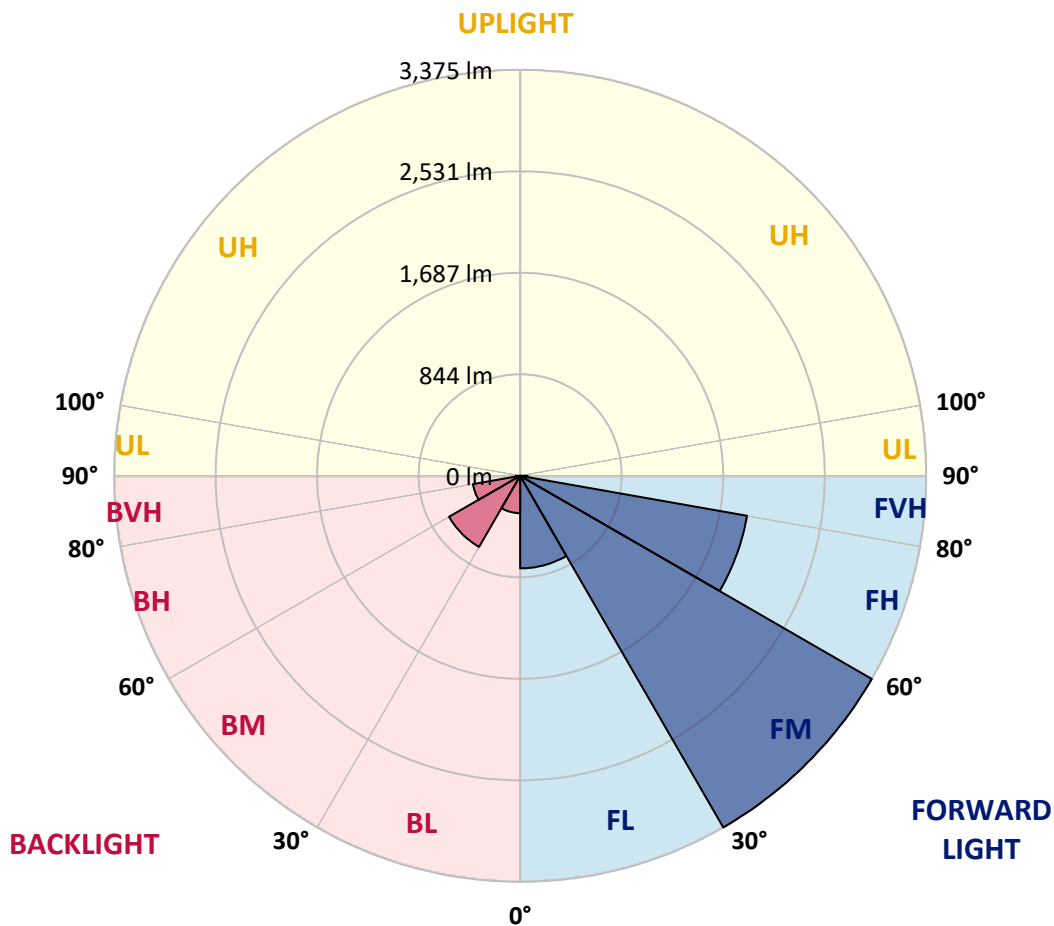
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	769.4	10.2			
FM	(30°-60°)	3374.6	44.7			
FH	(60°-80°)	1914.4	25.4			G2/5000
FVH	(80°-90°)	61.8	0.8			G1/100
BL	(0°-30°)	310.4	4.1	B1/500		
BM	(30°-60°)	682.0	9.0	B1/1000		
BH	(60°-80°)	398.3	5.3	B1/500		G1/500
BVH	(80°-90°)	37.0	0.5			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6
2.5°	1108.9	1116.7	1106.9	1106.9	1074.2	1057.0	1024.3	999.4	954.6	946.8	917.2
5°	1310.7	1320.4	1306.8	1301.0	1262.4	1226.9	1172.0	1117.8	1038.0	1029.8	960.0
7.5°	1466.9	1479.4	1467.3	1461.1	1426.8	1387.1	1322.8	1247.2	1134.6	1118.6	1017.7
10°	1594.3	1596.3	1592.4	1594.7	1567.8	1535.1	1469.3	1381.2	1240.6	1218.7	1087.4
12.5°	1666.4	1675.4	1683.2	1697.2	1692.5	1672.3	1613.0	1507.8	1352.8	1324.7	1163.4
15°	1700.3	1715.9	1733.4	1765.8	1791.9	1796.9	1751.7	1643.8	1466.9	1433.0	1240.2
17.5°	1712.4	1727.2	1754.9	1801.6	1857.7	1895.5	1875.3	1775.9	1579.9	1541.0	1320.8
20°	1773.6	1777.9	1794.6	1839.0	1899.8	1962.5	1977.7	1902.9	1691.7	1647.7	1404.2
22.5°	1904.5	1895.9	1900.6	1920.8	1964.5	2025.3	2059.9	2015.1	1806.7	1756.0	1488.4
25°	2120.7	2095.8	2070.9	2047.5	2069.7	2104.0	2143.3	2127.3	1927.1	1862.8	1573.3
27.5°	2393.8	2363.5	2308.5	2231.8	2204.9	2217.0	2234.5	2231.4	2038.5	1973.4	1661.0
30°	2662.7	2627.2	2561.8	2450.7	2379.8	2347.9	2334.6	2325.7	2159.7	2090.3	1749.4
32.5°	2877.4	2849.3	2785.0	2660.7	2557.9	2503.3	2459.3	2427.4	2286.3	2217.0	1842.9
35°	3065.2	3039.1	2965.4	2829.8	2718.0	2660.0	2602.3	2534.1	2418.0	2347.9	1943.4
37.5°	3236.6	3210.5	3109.6	2968.5	2855.9	2815.8	2764.4	2648.7	2550.1	2483.9	2049.8
40°	3344.9	3339.1	3244.8	3085.0	2968.2	2948.3	2931.1	2781.5	2696.6	2635.0	2166.7
42.5°	3372.6	3385.4	3310.6	3179.3	3067.9	3051.9	3092.1	2931.9	2861.0	2802.2	2299.2
45°	3306.0	3343.0	3293.9	3204.7	3138.8	3130.2	3234.7	3096.3	3043.0	2989.2	2458.9
47.5°	3137.3	3200.0	3179.7	3167.3	3157.9	3194.9	3360.1	3270.9	3249.1	3202.3	2641.3
50°	2796.7	2915.6	2951.0	3029.7	3120.1	3245.2	3474.3	3461.4	3489.9	3442.7	2863.3
52.5°	2208.0	2371.6	2577.4	2774.5	3004.0	3228.4	3599.7	3734.9	3854.9	3829.2	3216.3
55°	1822.7	1896.3	2054.5	2416.1	2778.8	3157.9	3656.2	3955.9	4217.3	4194.3	3484.0
57.5°	1526.5	1592.4	1689.8	1991.8	2438.3	2997.8	3691.3	4090.7	4465.5	4463.1	3748.2
60°	1209.0	1278.7	1378.5	1592.4	2040.5	2721.1	3683.5	4244.2	4782.2	4801.7	4070.4
62.5°	850.5	927.3	1038.0	1237.4	1634.1	2362.7	3524.5	4355.2	5155.1	5208.1	4458.1
65°	559.1	609.8	693.1	865.4	1217.6	1901.8	3221.0	4369.6	5554.1	5643.7	4822.0
67.5°	392.0	411.4	460.5	554.0	802.6	1458.4	2737.5	4220.4	5820.2	5921.1	4979.8
70°	305.9	315.6	340.5	377.9	504.2	980.7	2097.7	3832.3	5763.3	5868.5	4815.0
72.5°	264.2	273.5	282.9	287.5	338.2	605.5	1421.0	3204.3	5227.6	5298.9	4186.5
75°	239.6	242.0	249.7	248.2	257.9	392.7	820.2	2334.6	4124.6	4100.0	3090.5
77.5°	201.4	204.6	217.4	215.5	229.1	268.5	425.9	1506.7	2674.0	2507.2	1720.2
80°	170.7	172.2	186.2	183.9	199.1	194.4	217.4	767.9	1134.2	960.8	496.0
82.5°	59.2	73.2	142.2	146.5	152.0	117.7	125.5	313.3	346.4	265.3	104.0
85°	28.8	30.8	72.5	102.9	102.5	59.2	61.2	111.8	109.1	85.7	34.7
87.5°	4.7	5.8	8.6	40.1	31.9	15.6	21.0	21.8	22.6	19.5	7.8
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°	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6
2.5°	895.4	875.9	835.0	797.2	767.6	739.1	723.1	709.5	701.7	700.2	700.2
5°	919.5	879.4	805.0	742.2	701.3	670.9	655.0	644.8	639.8	636.6	636.3
7.5°	954.2	895.4	789.4	718.1	675.2	653.4	645.2	643.7	643.3	643.7	644.8
10°	1002.1	921.5	787.8	712.2	676.4	664.3	663.9	664.3	665.9	666.3	666.6
12.5°	1053.9	948.3	794.1	717.3	691.2	684.6	683.4	683.0	684.2	685.0	685.3
15°	1110.4	983.8	804.6	728.2	707.6	700.5	699.4	697.0	696.6	696.3	695.9
17.5°	1168.5	1018.9	816.3	739.9	718.1	708.3	704.1	698.6	694.3	693.1	694.3
20°	1227.3	1053.5	824.4	745.7	718.9	705.2	696.6	687.3	679.9	675.6	677.2
22.5°	1290.0	1089.8	829.5	744.2	711.8	693.1	677.6	666.6	655.3	647.9	648.3
25°	1351.2	1121.3	829.1	736.0	698.2	674.4	654.6	640.5	625.0	617.2	617.2
27.5°	1410.0	1149.8	819.4	721.6	678.7	652.2	628.5	611.7	596.5	589.1	588.7
30°	1470.8	1173.5	804.2	700.5	655.7	626.5	600.4	586.0	572.4	565.3	565.0
32.5°	1531.2	1195.4	782.8	674.4	629.2	601.2	575.5	562.2	554.0	554.0	554.4
35°	1595.1	1210.6	754.3	644.0	601.2	574.3	554.0	546.3	545.5	540.8	539.6
37.5°	1662.5	1220.3	719.6	612.9	573.5	548.2	542.0	532.6	524.8	514.7	513.1
40°	1733.4	1230.0	677.9	580.5	544.3	530.3	527.6	515.1	492.9	467.9	464.4
42.5°	1819.5	1236.7	634.7	548.2	513.5	508.8	512.7	491.3	455.9	437.2	437.5
45°	1919.3	1247.6	595.0	516.3	482.0	482.0	498.3	470.3	441.1	429.4	431.3
47.5°	2048.6	1272.9	557.9	481.2	452.7	460.5	466.4	445.0	428.6	414.2	413.8
50°	2235.7	1333.7	519.8	445.7	430.5	446.1	437.9	425.5	406.4	394.7	393.5
52.5°	2467.9	1369.5	485.9	413.8	411.4	427.0	415.3	403.7	389.2	373.6	370.5
55°	2626.1	1376.2	457.4	390.4	398.6	397.0	392.7	382.2	374.4	353.8	354.2
57.5°	2803.0	1389.4	434.0	376.4	390.4	373.3	371.7	362.7	352.6	338.6	333.9
60°	3014.5	1410.0	413.8	370.9	383.4	357.7	349.9	346.4	336.2	329.2	331.2
62.5°	3245.2	1428.8	393.1	371.7	375.2	342.5	330.8	329.6	323.4	321.1	321.1
65°	3402.6	1377.7	367.4	370.9	362.4	326.9	312.1	311.7	306.6	305.9	305.5
67.5°	3347.6	1216.0	332.7	360.0	349.1	311.3	294.9	293.4	286.8	287.2	287.2
70°	3072.6	985.4	284.8	333.1	332.7	297.3	277.0	272.0	263.0	264.6	266.1
72.5°	2556.7	730.2	220.5	288.3	306.6	284.4	256.4	248.2	236.9	238.4	238.1
75°	1846.4	496.4	160.5	219.4	266.9	269.2	236.1	222.1	208.4	210.8	211.6
77.5°	944.8	281.3	118.1	151.2	209.6	244.7	217.8	199.1	196.0	217.8	214.7
80°	308.2	141.0	81.8	106.0	137.5	200.3	190.9	169.5	168.7	173.8	149.2
82.5°	92.0	59.6	52.6	69.7	76.0	153.5	164.8	128.2	110.3	116.1	120.0
85°	31.6	28.8	30.0	34.7	36.2	90.0	115.3	84.9	80.3	88.4	87.3
87.5°	7.4	10.1	8.6	7.8	7.8	21.8	44.8	35.5	49.1	32.7	31.6
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)