

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: P945579

Luminaire Tested: **GALN-SB1C-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945579
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-SB1C-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7078 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 II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 54.4
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



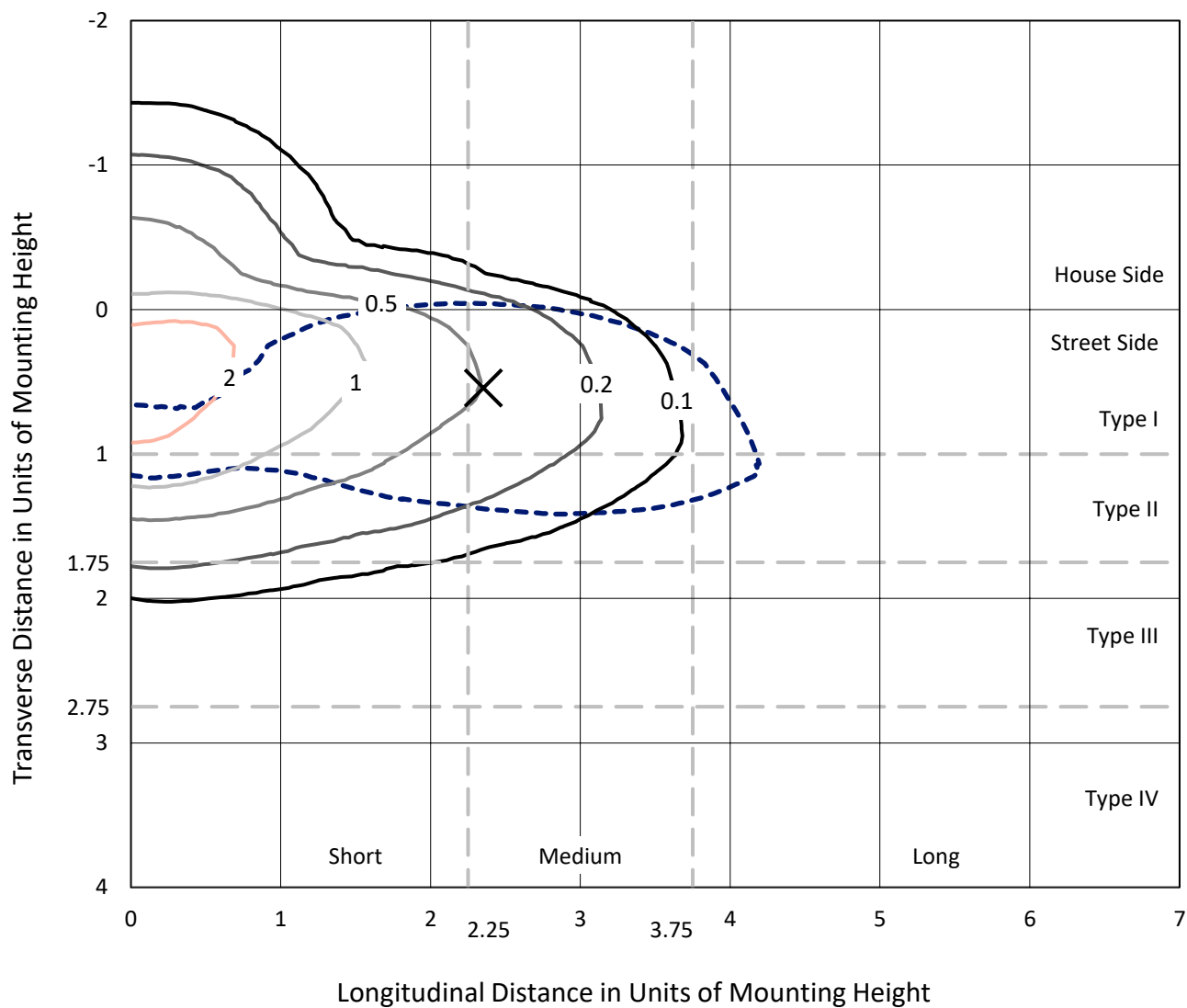
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

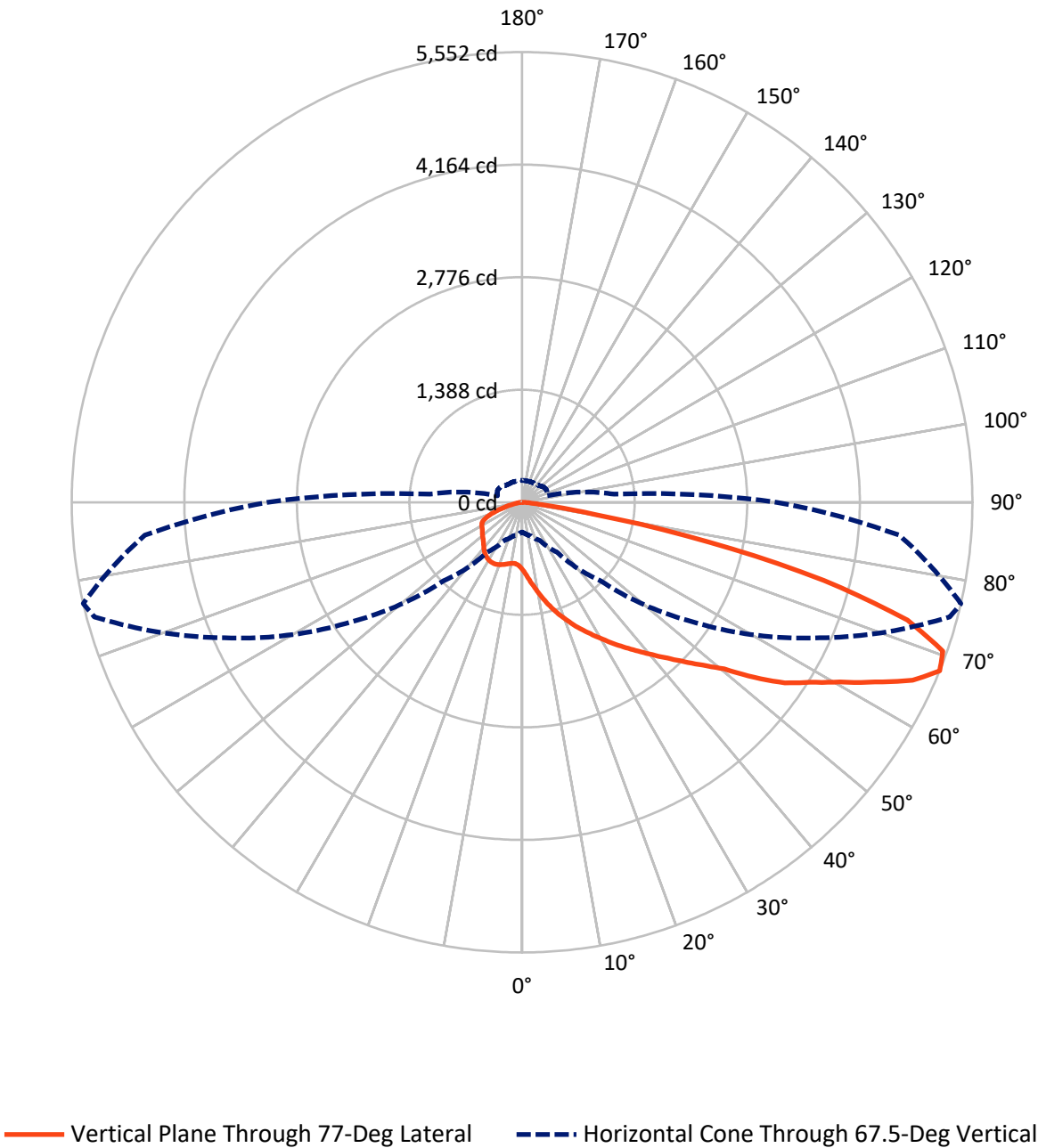
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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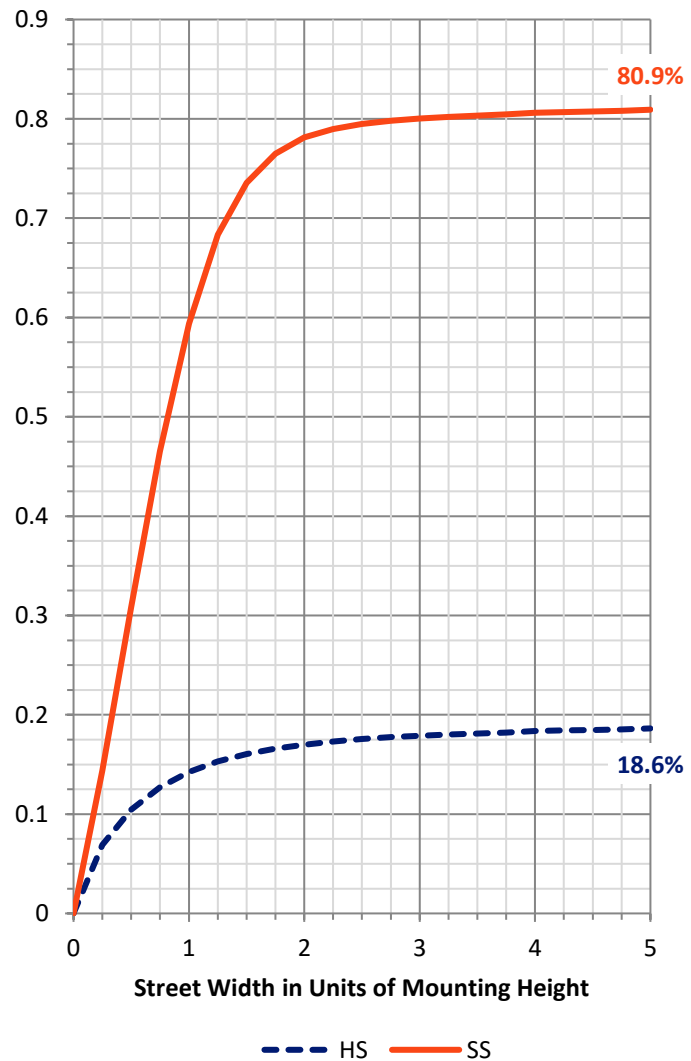
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1338.9	0.0	1338.9
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	5739.1	0.0	5739.1
	% Fixture	81.1	0.0	81.1
Total	Lumens	7078.0	0.0	7078.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	1.3
10°-20°	319.8	4.5
20°-30°	603.8	8.5
30°-40°	972.7	13.7
40°-50°	1330.5	18.8
50°-60°	1500.8	21.2
60°-70°	1400.8	19.8
70°-80°	767.9	10.8
80°-90°	92.6	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°	7078.0	100.0
0°-180°	7078.0	100.0

Coefficient of Utilization



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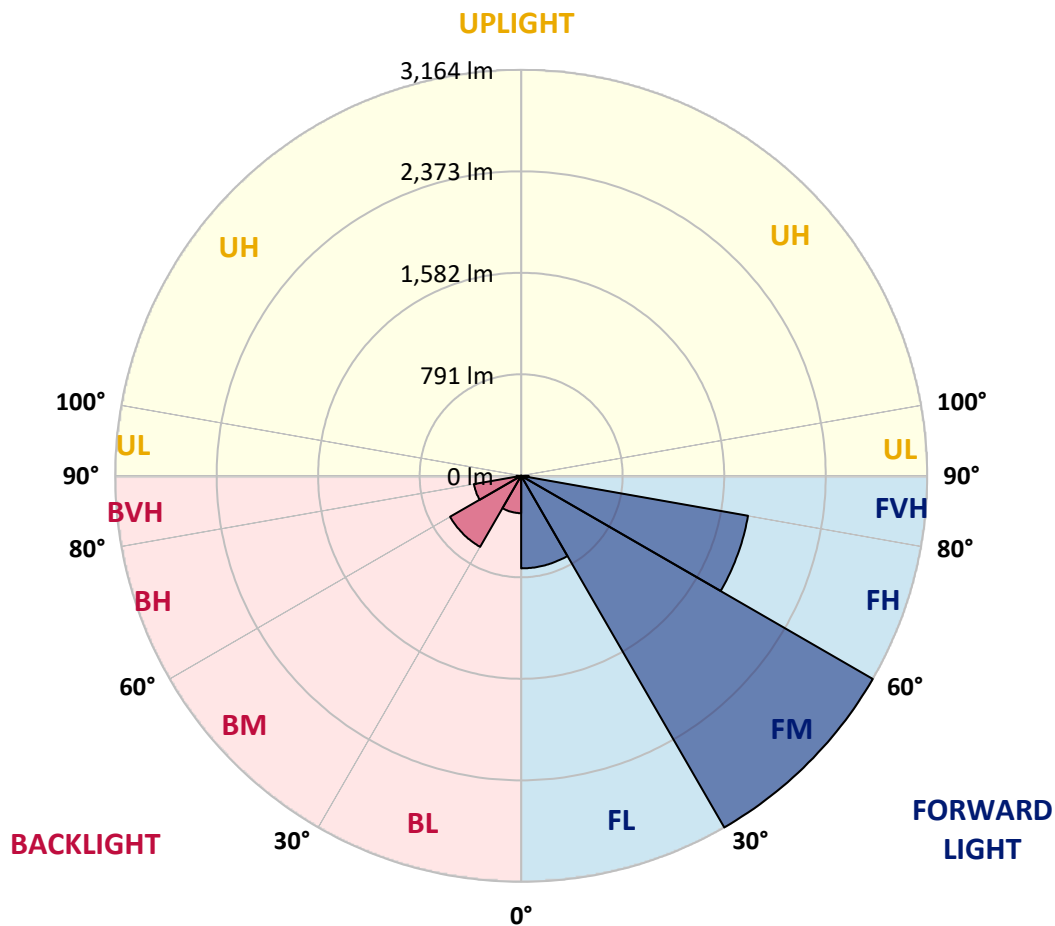
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	721.5	10.2			
FM	(30°-60°)	3164.5	44.7			
FH	(60°-80°)	1795.2	25.4			G1/1800
FVH	(80°-90°)	57.9	0.8			G1/100
BL	(0°-30°)	291.1	4.1	B1/500		
BM	(30°-60°)	639.5	9.0	B1/1000		
BH	(60°-80°)	373.5	5.3	B1/500		G1/500
BVH	(80°-90°)	34.7	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-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5
2.5°	1039.8	1047.1	1038.0	1038.0	1007.3	991.2	960.5	937.2	895.1	887.8	860.1
5°	1229.1	1238.2	1225.4	1219.9	1183.8	1150.5	1099.0	1048.2	973.3	965.7	900.3
7.5°	1375.6	1387.3	1376.0	1370.1	1338.0	1300.7	1240.4	1169.5	1063.9	1049.0	954.3
10°	1495.1	1496.9	1493.2	1495.4	1470.2	1439.5	1377.8	1295.2	1163.3	1142.9	1019.7
12.5°	1562.7	1571.1	1578.4	1591.5	1587.1	1568.1	1512.6	1414.0	1268.5	1242.2	1091.0
15°	1594.4	1609.1	1625.5	1655.8	1680.3	1685.1	1642.7	1541.5	1375.6	1343.8	1162.9
17.5°	1605.8	1619.7	1645.6	1689.4	1742.0	1777.5	1758.5	1665.3	1481.5	1445.0	1238.6
20°	1663.1	1667.1	1682.9	1724.5	1781.5	1840.3	1854.6	1784.4	1586.4	1545.1	1316.8
22.5°	1785.9	1777.9	1782.2	1801.2	1842.2	1899.2	1931.7	1889.7	1694.2	1646.7	1395.7
25°	1988.7	1965.3	1941.9	1920.0	1940.8	1973.0	2009.9	1994.9	1807.1	1746.8	1475.3
27.5°	2244.8	2216.3	2164.8	2092.8	2067.6	2078.9	2095.4	2092.4	1911.6	1850.6	1557.5
30°	2496.9	2463.6	2402.3	2298.1	2231.6	2201.7	2189.3	2180.8	2025.2	1960.2	1640.5
32.5°	2698.2	2671.9	2611.6	2495.1	2398.6	2347.5	2306.2	2276.2	2143.9	2078.9	1728.2
35°	2874.3	2849.8	2780.8	2653.6	2548.8	2494.3	2440.3	2376.3	2267.4	2201.7	1822.4
37.5°	3035.1	3010.6	2916.0	2783.7	2678.1	2640.5	2592.2	2483.7	2391.3	2329.2	1922.2
40°	3136.6	3131.2	3042.7	2892.9	2783.3	2764.7	2748.6	2608.3	2528.7	2470.9	2031.8
42.5°	3162.6	3174.6	3104.5	2981.4	2876.9	2861.9	2899.5	2749.4	2682.9	2627.7	2156.0
45°	3100.1	3134.8	3088.8	3005.1	2943.4	2935.3	3033.2	2903.5	2853.5	2803.1	2305.8
47.5°	2941.9	3000.7	2981.7	2970.0	2961.3	2996.0	3150.9	3067.2	3046.8	3002.9	2476.8
50°	2622.6	2734.0	2767.3	2841.1	2925.8	3043.1	3257.9	3245.9	3272.6	3228.3	2685.1
52.5°	2070.5	2224.0	2416.9	2601.7	2816.9	3027.4	3375.6	3502.4	3614.9	3590.8	3016.1
55°	1709.2	1778.2	1926.6	2265.6	2605.8	2961.3	3428.6	3709.5	3954.7	3933.1	3267.1
57.5°	1431.5	1493.2	1584.6	1867.7	2286.4	2811.1	3461.4	3835.9	4187.4	4185.2	3514.8
60°	1133.7	1199.1	1292.7	1493.2	1913.4	2551.7	3454.1	3979.9	4484.5	4502.7	3816.9
62.5°	797.6	869.6	973.3	1160.4	1532.3	2215.6	3305.1	4084.0	4834.1	4883.8	4180.5
65°	524.3	571.8	650.0	811.5	1141.8	1783.3	3020.5	4097.5	5208.2	5292.3	4521.7
67.5°	367.6	385.8	431.9	519.5	752.6	1367.6	2567.0	3957.6	5457.8	5552.4	4669.7
70°	286.8	295.9	319.3	354.4	472.8	919.6	1967.1	3593.7	5404.4	5503.1	4515.2
72.5°	247.7	256.5	265.3	269.6	317.1	567.8	1332.5	3004.7	4902.1	4968.9	3925.8
75°	224.7	226.9	234.2	232.7	241.9	368.3	769.1	2189.3	3867.7	3844.7	2898.1
77.5°	188.9	191.8	203.9	202.0	214.8	251.7	399.3	1412.9	2507.5	2351.1	1613.1
80°	160.0	161.5	174.6	172.5	186.7	182.3	203.9	720.1	1063.6	901.0	465.1
82.5°	55.5	68.7	133.4	137.4	142.5	110.3	117.6	293.8	324.8	248.8	97.6
85°	27.0	28.9	68.0	96.5	96.1	55.5	57.4	104.9	102.3	80.4	32.5
87.5°	4.4	5.5	8.0	37.6	30.0	14.6	19.7	20.5	21.2	18.3	7.3
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°	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5
2.5°	839.6	821.3	783.0	747.5	719.8	693.1	678.1	665.3	658.0	656.6	656.6
5°	862.3	824.6	754.8	696.0	657.7	629.2	614.2	604.7	599.9	597.0	596.6
7.5°	894.8	839.6	740.2	673.4	633.2	612.7	605.0	603.6	603.2	603.6	604.7
10°	939.7	864.1	738.8	667.9	634.3	622.9	622.6	622.9	624.4	624.8	625.1
12.5°	988.3	889.3	744.6	672.6	648.2	641.9	640.8	640.5	641.6	642.3	642.7
15°	1041.3	922.5	754.5	682.9	663.5	656.9	655.8	653.6	653.3	652.9	652.5
17.5°	1095.7	955.4	765.4	693.8	673.4	664.2	660.2	655.1	651.1	650.0	651.1
20°	1150.9	987.9	773.1	699.3	674.1	661.3	653.3	644.5	637.6	633.5	635.0
22.5°	1209.7	1021.9	777.9	697.8	667.5	650.0	635.4	625.1	614.5	607.6	608.0
25°	1267.1	1051.5	777.5	690.2	654.7	632.4	613.8	600.7	586.0	578.7	578.7
27.5°	1322.2	1078.2	768.4	676.7	636.5	611.6	589.3	573.6	559.4	552.4	552.1
30°	1379.2	1100.5	754.1	656.9	614.9	587.5	563.0	549.5	536.7	530.1	529.8
32.5°	1435.9	1120.9	734.0	632.4	590.1	563.8	539.6	527.2	519.5	519.5	519.9
35°	1495.8	1135.2	707.3	603.9	563.8	538.5	519.5	512.2	511.5	507.1	506.0
37.5°	1559.0	1144.3	674.8	574.7	537.8	514.1	508.2	499.5	492.1	482.6	481.2
40°	1625.5	1153.4	635.7	544.4	510.4	497.3	494.7	483.0	462.2	438.8	435.5
42.5°	1706.2	1159.7	595.2	514.1	481.5	477.2	480.8	460.7	427.5	409.9	410.3
45°	1799.8	1169.9	557.9	484.1	452.0	452.0	467.3	441.0	413.6	402.6	404.5
47.5°	1921.1	1193.6	523.2	451.2	424.6	431.9	437.3	417.2	401.9	388.4	388.0
50°	2096.5	1250.6	487.4	418.0	403.7	418.3	410.7	399.0	381.1	370.1	369.0
52.5°	2314.2	1284.2	455.6	388.0	385.8	400.4	389.5	378.5	365.0	350.4	347.5
55°	2462.5	1290.5	428.9	366.1	373.8	372.3	368.3	358.4	351.1	331.7	332.1
57.5°	2628.4	1302.9	407.0	352.9	366.1	350.0	348.6	340.2	330.7	317.5	313.1
60°	2826.8	1322.2	388.0	347.8	359.5	335.4	328.1	324.8	315.3	308.7	310.6
62.5°	3043.1	1339.8	368.7	348.6	351.8	321.2	310.2	309.1	303.3	301.1	301.1
65°	3190.7	1291.9	344.5	347.8	339.8	306.5	292.7	292.3	287.5	286.8	286.4
67.5°	3139.2	1140.3	312.0	337.6	327.4	291.9	276.6	275.1	268.9	269.3	269.3
70°	2881.2	924.0	267.1	312.4	312.0	278.8	259.8	255.0	246.6	248.1	249.5
72.5°	2397.5	684.7	206.8	270.4	287.5	266.7	240.4	232.7	222.1	223.6	223.2
75°	1731.5	465.5	150.5	205.7	250.3	252.5	221.4	208.3	195.5	197.7	198.4
77.5°	886.0	263.8	110.7	141.8	196.6	229.4	204.2	186.7	183.8	204.2	201.3
80°	289.0	132.3	76.7	99.4	129.0	187.8	179.0	158.9	158.2	163.0	139.9
82.5°	86.2	55.9	49.3	65.4	71.2	144.0	154.5	120.2	103.4	108.9	112.5
85°	29.6	27.0	28.1	32.5	34.0	84.4	108.1	79.6	75.3	82.9	81.8
87.5°	6.9	9.5	8.0	7.3	7.3	20.5	42.0	33.2	46.0	30.7	29.6
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)