

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: P946629

Luminaire Tested: **GALN-SB2B-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946629
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-SB2B-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9475 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.9
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

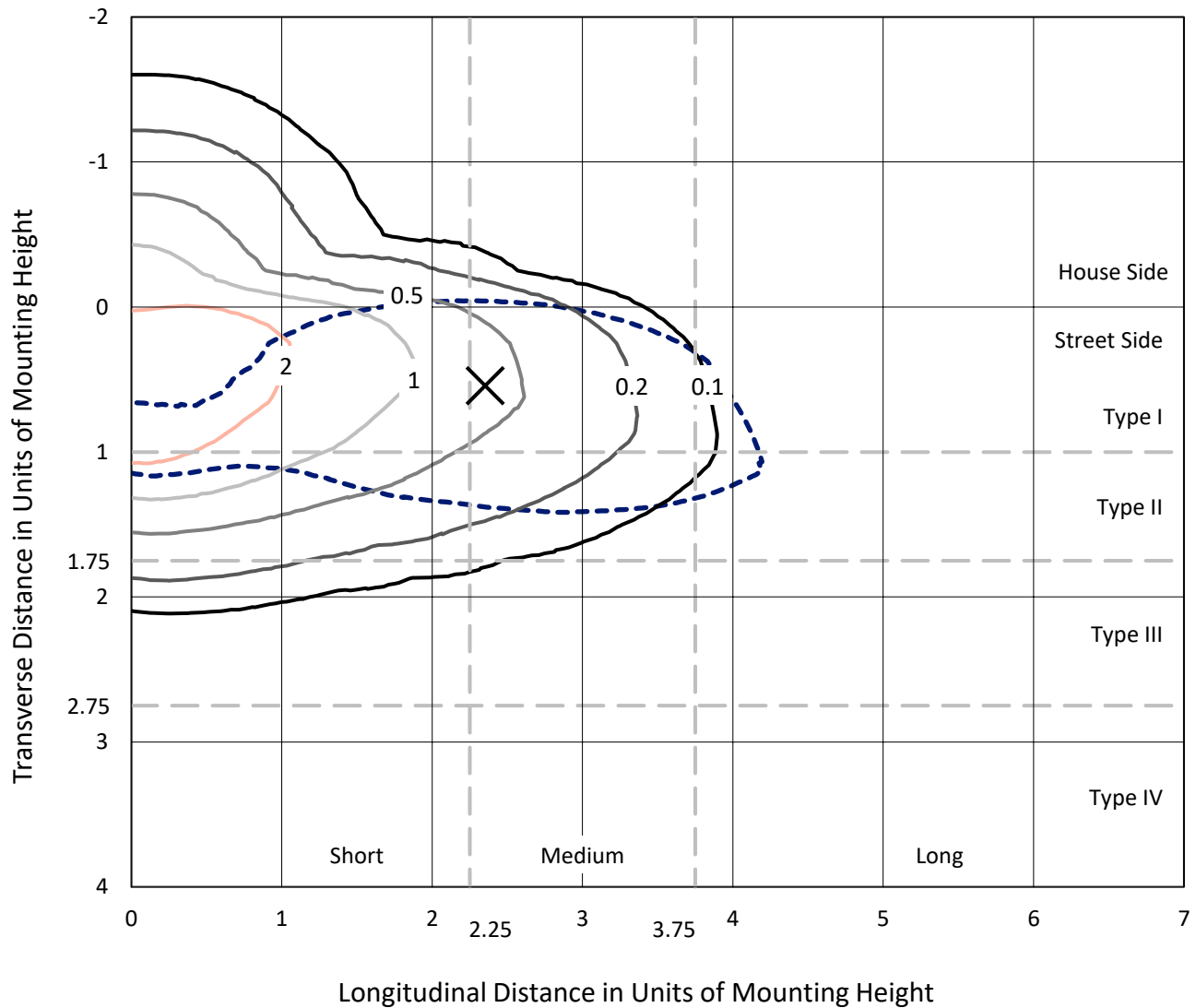


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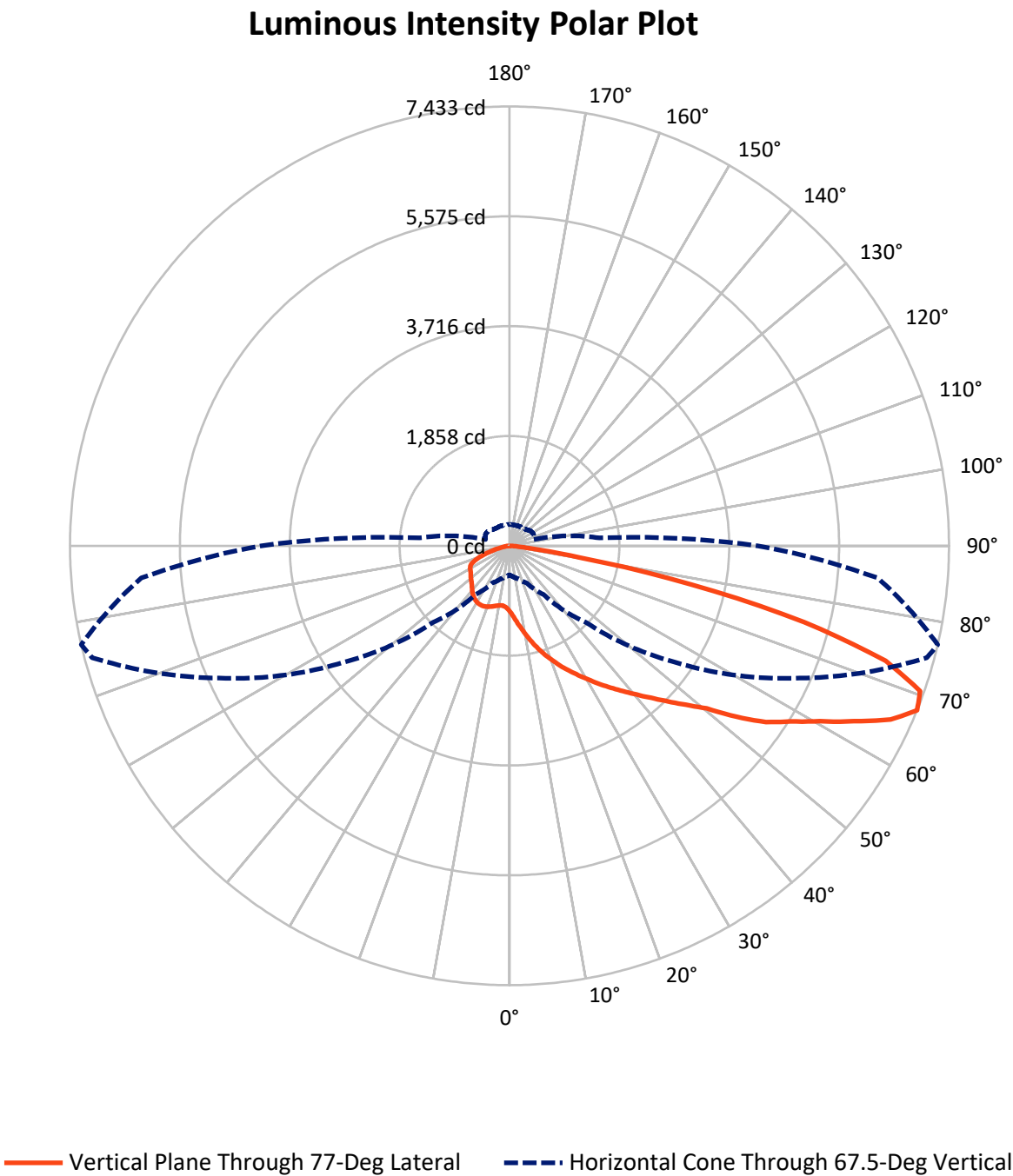
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type II - Medium - N/A

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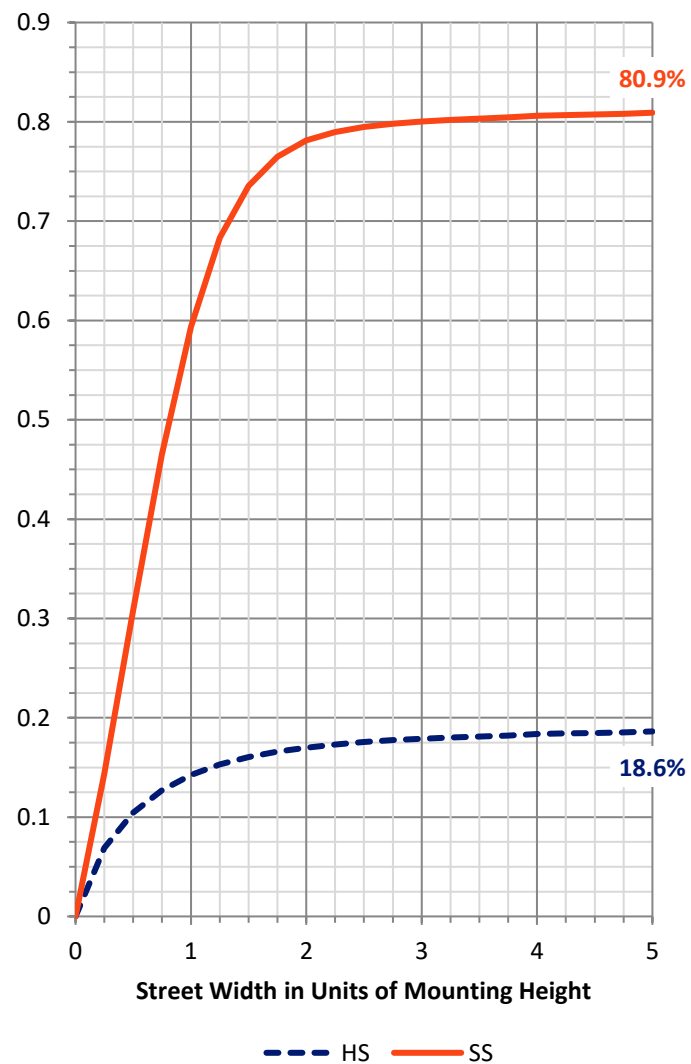
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1792.3	0.0	1792.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	7682.7	0.0	7682.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	9475.0	0.0	9475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.2	1.3
10°-20°	428.1	4.5
20°-30°	808.3	8.5
30°-40°	1302.1	13.7
40°-50°	1781.1	18.8
50°-60°	2009.1	21.2
60°-70°	1875.2	19.8
70°-80°	1027.9	10.8
80°-90°	124.0	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°	9475.0	100.0
0°-180°	9475.0	100.0

Coefficient of Utilization



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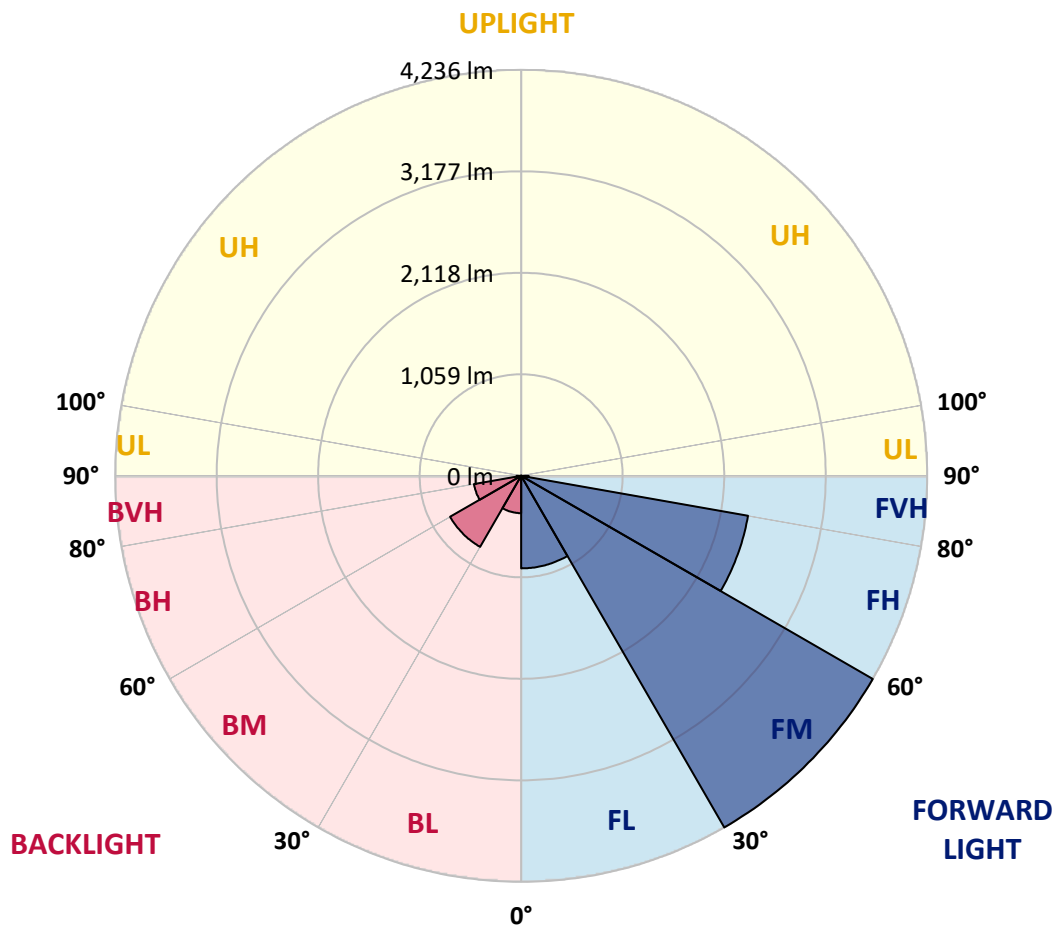
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	965.9	10.2			
FM	(30°-60°)	4236.2	44.7			
FH	(60°-80°)	2403.1	25.4			G2/5000
FVH	(80°-90°)	77.5	0.8			G1/100
BL	(0°-30°)	389.7	4.1	B1/500		
BM	(30°-60°)	856.1	9.0	B1/1000		
BH	(60°-80°)	500.0	5.3	B2/1000		G2/1000
BVH	(80°-90°)	46.5	0.5			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7
2.5°	1392.0	1401.7	1389.5	1389.5	1348.4	1326.9	1285.8	1254.5	1198.3	1188.5	1151.3
5°	1645.3	1657.5	1640.4	1633.1	1584.7	1540.2	1471.2	1403.2	1302.9	1292.7	1205.1
7.5°	1841.4	1857.1	1841.9	1834.1	1791.1	1741.2	1660.5	1565.6	1424.2	1404.2	1277.5
10°	2001.4	2003.8	1998.9	2001.9	1968.1	1927.0	1844.4	1733.8	1557.3	1529.9	1365.1
12.5°	2091.9	2103.1	2112.9	2130.5	2124.6	2099.2	2024.9	1892.8	1698.1	1662.9	1460.4
15°	2134.4	2154.0	2176.0	2216.6	2249.3	2255.7	2199.0	2063.5	1841.4	1798.9	1556.8
17.5°	2149.6	2168.2	2202.9	2261.6	2332.0	2379.4	2354.0	2229.3	1983.3	1934.4	1658.0
20°	2226.4	2231.7	2252.8	2308.5	2384.8	2463.6	2482.6	2388.7	2123.6	2068.4	1762.7
22.5°	2390.7	2379.9	2385.8	2411.2	2466.0	2542.3	2585.8	2529.6	2267.9	2204.3	1868.3
25°	2662.1	2630.8	2599.5	2570.2	2598.1	2641.1	2690.5	2670.5	2419.1	2338.4	1975.0
27.5°	3005.0	2966.8	2897.9	2801.5	2767.8	2782.9	2805.0	2801.0	2558.9	2477.3	2085.0
30°	3342.5	3298.0	3215.8	3076.4	2987.4	2947.3	2930.7	2919.4	2711.1	2624.0	2196.0
32.5°	3612.0	3576.7	3496.0	3340.0	3210.9	3142.4	3087.2	3047.1	2870.0	2782.9	2313.4
35°	3847.7	3814.9	3722.5	3552.3	3411.9	3339.0	3266.7	3181.1	3035.3	2947.3	2439.6
37.5°	4062.9	4030.1	3903.5	3726.4	3585.1	3534.7	3470.1	3324.9	3201.1	3118.0	2573.1
40°	4198.9	4191.5	4073.2	3872.7	3725.9	3701.0	3679.5	3491.6	3385.0	3307.7	2719.9
42.5°	4233.6	4249.7	4155.8	3991.0	3851.1	3831.1	3881.5	3680.4	3591.4	3517.6	2886.1
45°	4150.0	4196.4	4134.8	4022.8	3940.1	3929.4	4060.5	3886.8	3819.8	3752.3	3086.7
47.5°	3938.2	4016.9	3991.5	3975.8	3964.1	4010.6	4218.0	4105.9	4078.6	4019.9	3315.6
50°	3510.7	3659.9	3704.4	3803.2	3916.7	4073.7	4361.3	4345.1	4380.8	4321.6	3594.4
52.5°	2771.7	2977.1	3235.4	3482.8	3770.9	4052.6	4518.7	4688.5	4839.1	4806.8	4037.5
55°	2288.0	2380.4	2579.0	3032.9	3488.2	3964.1	4589.7	4965.8	5294.0	5265.1	4373.5
57.5°	1916.3	1998.9	2121.2	2500.3	3060.8	3763.1	4633.7	5135.0	5605.5	5602.6	4705.1
60°	1517.7	1605.2	1730.4	1998.9	2561.4	3415.8	4623.9	5327.7	6003.1	6027.6	5109.6
62.5°	1067.7	1164.0	1302.9	1553.4	2051.3	2965.9	4424.3	5467.1	6471.2	6537.7	5596.2
65°	701.9	765.4	870.1	1086.3	1528.4	2387.3	4043.3	5485.2	6972.0	7084.5	6053.0
67.5°	492.0	516.5	578.1	695.5	1007.5	1830.7	3436.4	5297.9	7306.1	7432.8	6251.1
70°	383.9	396.2	427.5	474.4	632.9	1231.1	2633.3	4810.7	7234.7	7366.7	6044.2
72.5°	331.6	343.3	355.1	361.0	424.5	760.1	1783.7	4022.3	6562.2	6651.7	5255.3
75°	300.8	303.7	313.5	311.6	323.8	493.0	1029.5	2930.7	5177.6	5146.7	3879.5
77.5°	252.9	256.8	272.9	270.5	287.6	337.0	534.6	1891.3	3356.7	3147.3	2159.4
80°	214.2	216.2	233.8	230.9	249.9	244.1	272.9	964.0	1423.8	1206.1	622.6
82.5°	74.3	91.9	178.5	183.9	190.7	147.7	157.5	393.2	434.8	333.1	130.6
85°	36.2	38.6	91.0	129.1	128.6	74.3	76.8	140.4	136.9	107.6	43.5
87.5°	5.9	7.3	10.8	50.4	40.1	19.6	26.4	27.4	28.4	24.5	9.8
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°	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7	1111.7
2.5°	1123.9	1099.5	1048.1	1000.7	963.5	927.8	907.8	890.6	880.9	878.9	878.9
5°	1154.3	1103.9	1010.5	931.7	880.4	842.2	822.2	809.5	803.1	799.2	798.7
7.5°	1197.8	1123.9	990.9	901.4	847.6	820.2	809.9	808.0	807.5	808.0	809.5
10°	1258.0	1156.7	988.9	894.1	849.1	833.9	833.4	833.9	835.9	836.4	836.8
12.5°	1323.0	1190.5	996.8	900.4	867.7	859.3	857.9	857.4	858.8	859.8	860.3
15°	1393.9	1235.0	1010.0	914.1	888.2	879.4	877.9	875.0	874.5	874.0	873.5
17.5°	1466.8	1279.0	1024.7	928.8	901.4	889.2	883.8	876.9	871.6	870.1	871.6
20°	1540.6	1322.5	1034.9	936.1	902.4	885.3	874.5	862.8	853.5	848.1	850.0
22.5°	1619.4	1368.0	1041.3	934.2	893.6	870.1	850.5	836.8	822.7	813.4	813.9
25°	1696.2	1407.6	1040.8	923.9	876.5	846.6	821.7	804.1	784.5	774.7	774.7
27.5°	1770.0	1443.3	1028.6	905.8	852.0	818.7	788.9	767.9	748.8	739.5	739.0
30°	1846.3	1473.2	1009.5	879.4	823.1	786.5	753.7	735.6	718.5	709.7	709.2
32.5°	1922.1	1500.5	982.6	846.6	789.9	754.7	722.4	705.8	695.5	695.5	696.0
35°	2002.4	1519.6	946.9	808.5	754.7	720.9	695.5	685.7	684.7	678.9	677.4
37.5°	2087.0	1531.8	903.4	769.3	719.9	688.2	680.3	668.6	658.8	646.1	644.1
40°	2176.0	1544.1	851.0	728.8	683.3	665.7	662.2	646.6	618.7	587.4	583.0
42.5°	2284.1	1552.4	796.7	688.2	644.6	638.8	643.6	616.7	572.2	548.8	549.3
45°	2409.3	1566.1	746.8	648.1	605.0	605.0	625.6	590.3	553.7	539.0	541.4
47.5°	2571.7	1597.9	700.4	604.0	568.3	578.1	585.4	558.5	538.0	519.9	519.4
50°	2806.4	1674.2	652.5	559.5	540.4	560.0	549.7	534.1	510.1	495.5	494.0
52.5°	3097.9	1719.2	609.9	519.4	516.5	536.0	521.4	506.7	488.6	469.0	465.1
55°	3296.5	1727.5	574.2	490.1	500.3	498.4	493.0	479.8	470.0	444.1	444.6
57.5°	3518.5	1744.1	544.9	472.5	490.1	468.6	466.6	455.3	442.6	425.0	419.2
60°	3784.1	1770.0	519.4	465.6	481.3	449.0	439.2	434.8	422.1	413.3	415.7
62.5°	4073.7	1793.5	493.5	466.6	471.0	429.9	415.2	413.8	405.9	403.0	403.0
65°	4271.3	1729.4	461.2	465.6	454.9	410.4	391.8	391.3	384.9	383.9	383.5
67.5°	4202.3	1526.5	417.7	451.9	438.2	390.8	370.2	368.3	360.0	360.5	360.5
70°	3857.0	1236.9	357.5	418.2	417.7	373.2	347.7	341.4	330.1	332.1	334.1
72.5°	3209.4	916.6	276.8	361.9	384.9	357.0	321.8	311.6	297.4	299.3	298.8
75°	2317.8	623.1	201.5	275.4	335.0	338.0	296.4	278.8	261.7	264.6	265.6
77.5°	1186.1	353.1	148.2	189.8	263.1	307.2	273.4	249.9	246.0	273.4	269.5
80°	386.9	177.1	102.7	133.0	172.7	251.4	239.7	212.8	211.8	218.1	187.3
82.5°	115.4	74.8	66.0	87.5	95.4	192.7	206.9	160.9	138.4	145.8	150.6
85°	39.6	36.2	37.7	43.5	45.5	113.0	144.8	106.6	100.8	111.0	109.6
87.5°	9.3	12.7	10.8	9.8	9.8	27.4	56.2	44.5	61.6	41.1	39.6
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)