

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: P945936

Luminaire Tested: **GALN-SB1D-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945936
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-SB1D-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9617 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 79.6
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



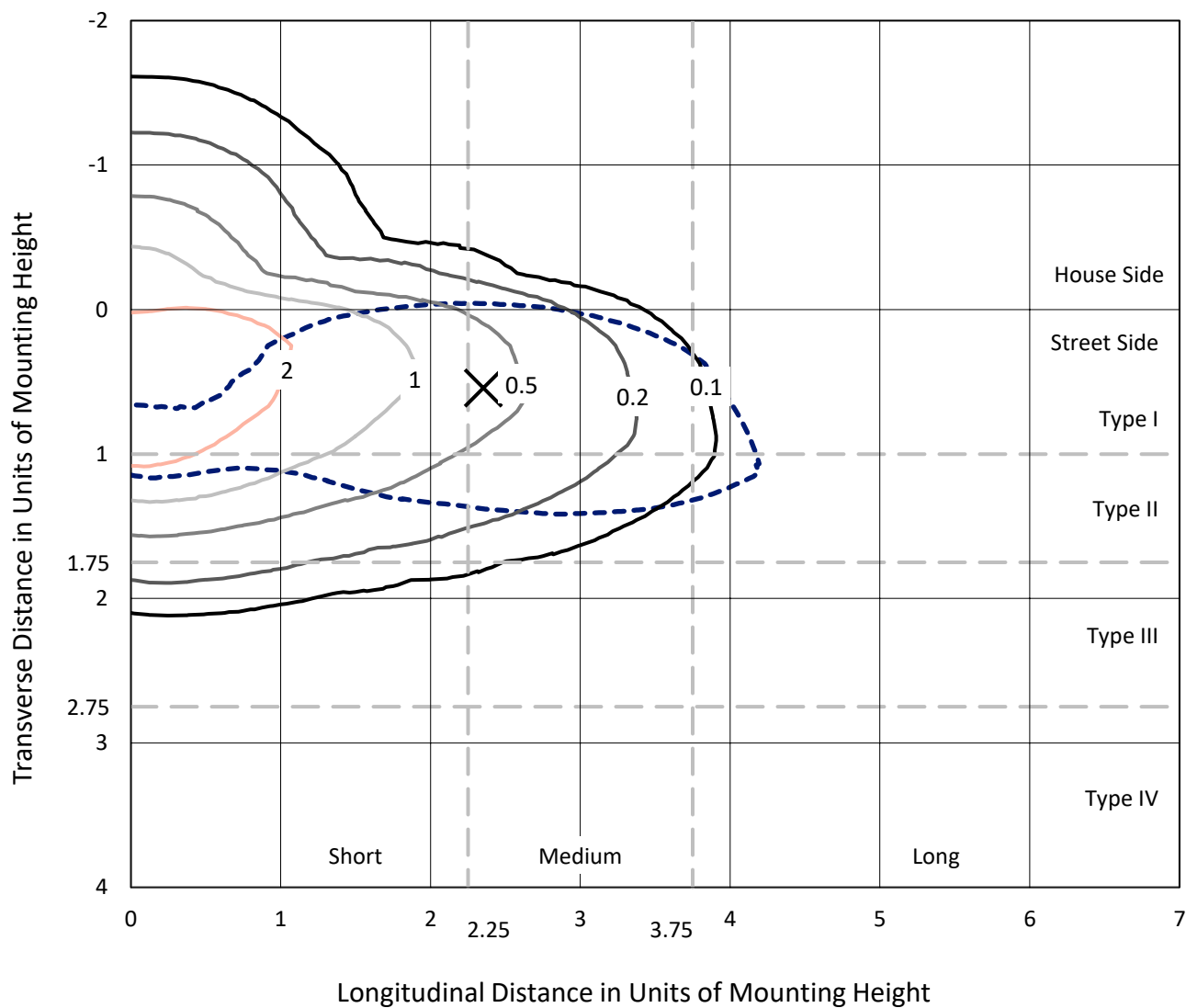
REPORT NUMBER: P945936

CATALOG NUMBER: GALN-SB1D-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

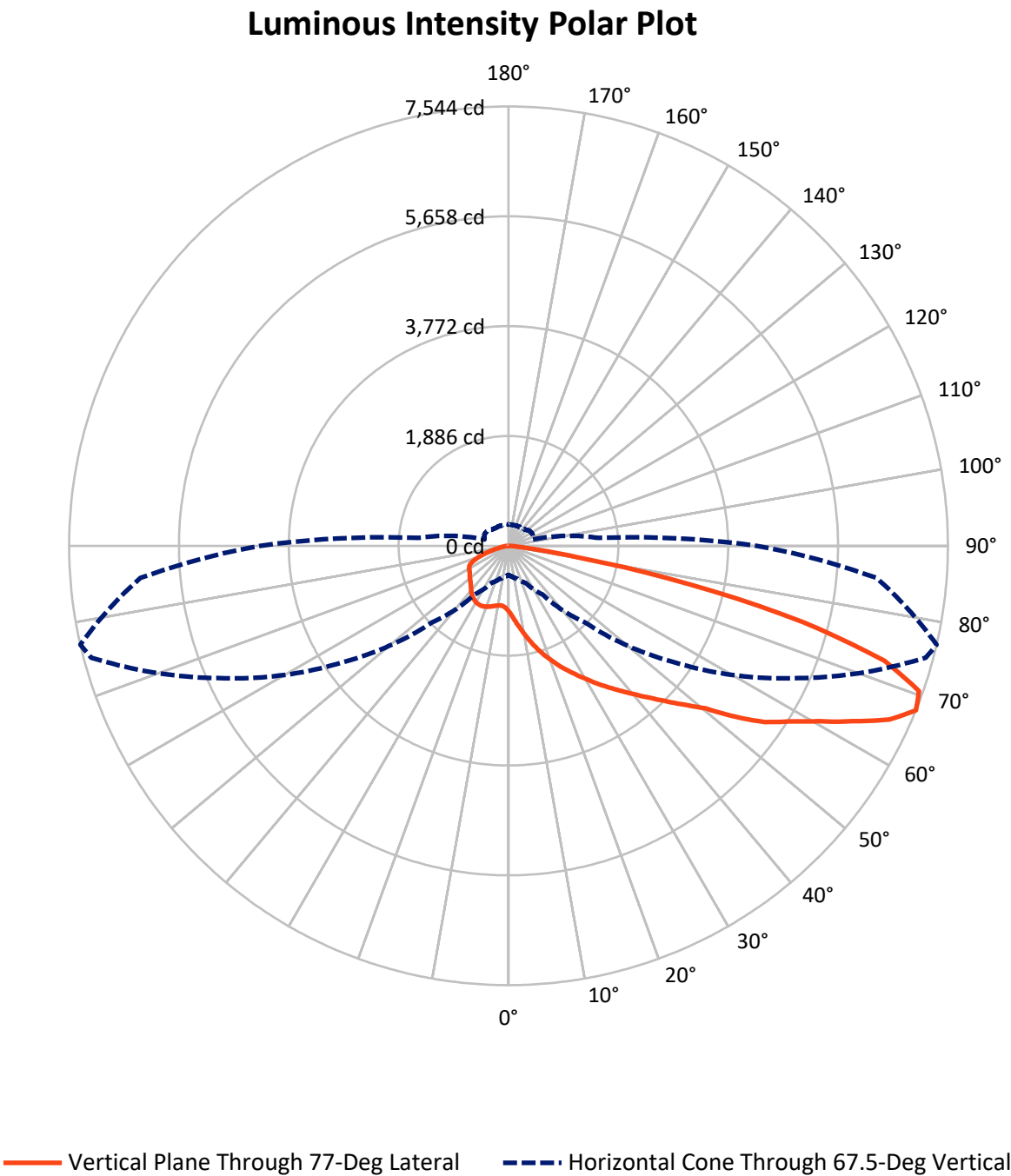
× Max cd

--- 1/2 Max cd



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

REPORT NUMBER: P945936
CATALOG NUMBER: GALN-SB1D-727-U-T2R



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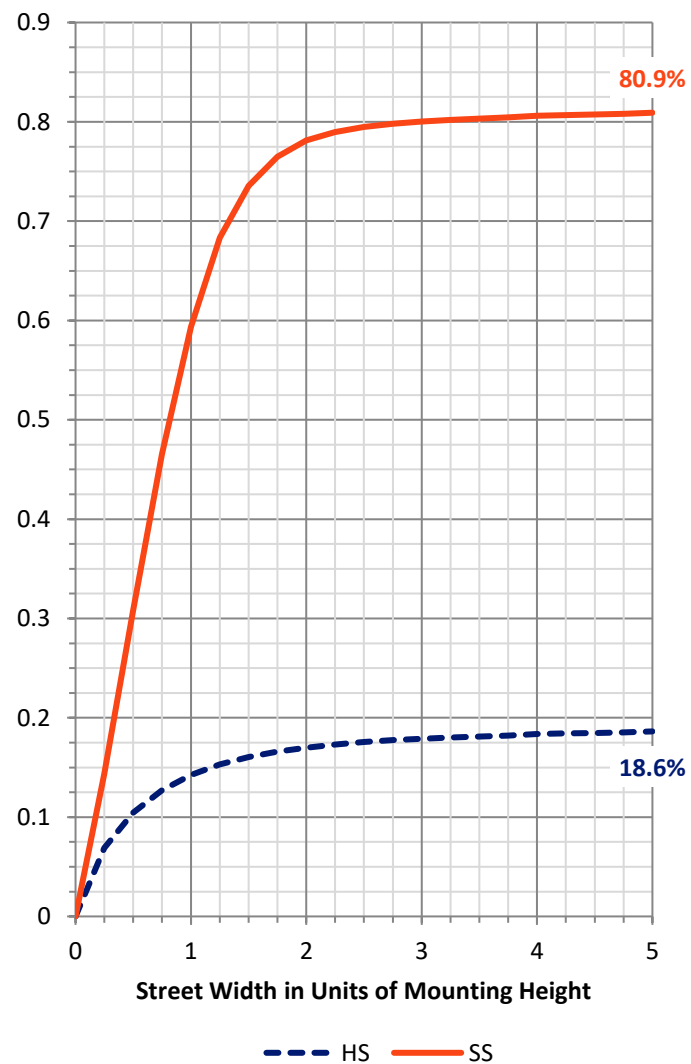
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1819.2	0.0	1819.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	7797.8	0.0	7797.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	9617.0	0.0	9617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	1.3
10°-20°	434.5	4.5
20°-30°	820.4	8.5
30°-40°	1321.7	13.7
40°-50°	1807.8	18.8
50°-60°	2039.2	21.2
60°-70°	1903.3	19.8
70°-80°	1043.3	10.8
80°-90°	125.8	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°	9617.0	100.0
0°-180°	9617.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945936

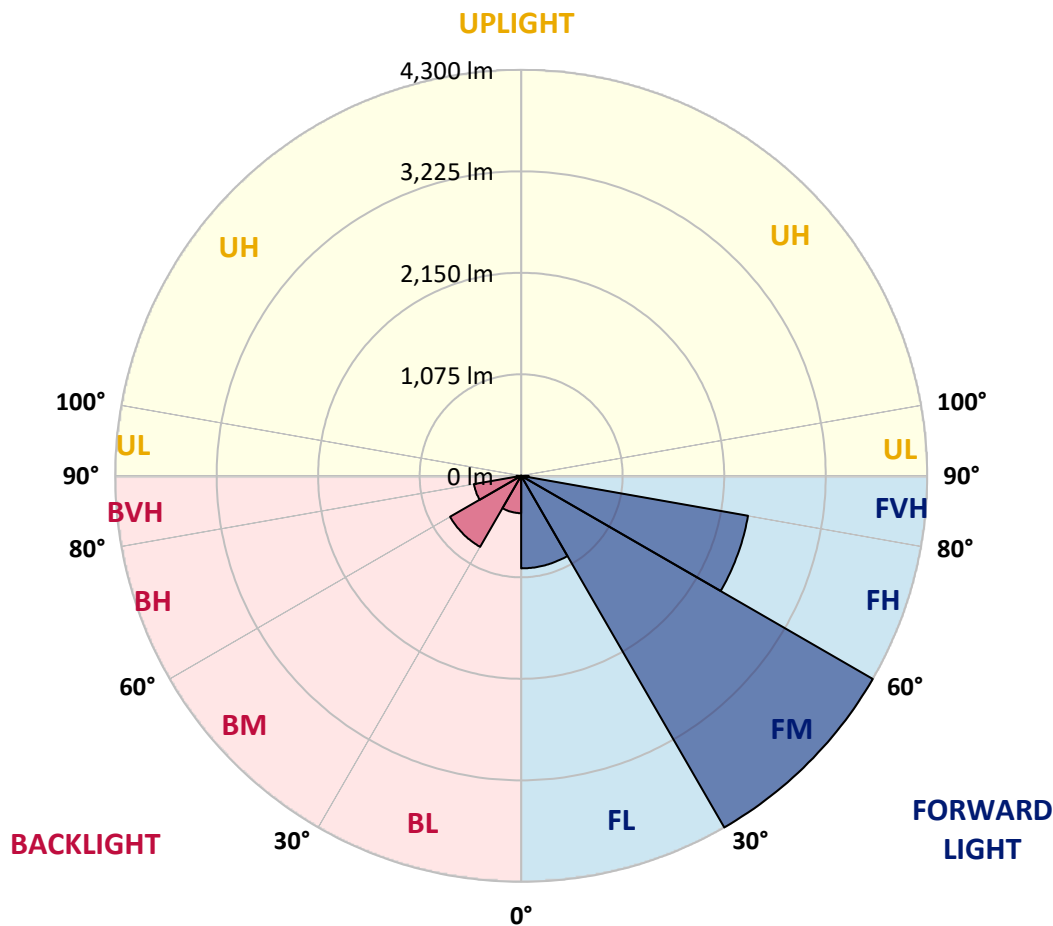
CATALOG NUMBER: GALN-SB1D-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	980.3	10.2			
FM	(30°-60°)	4299.7	44.7			
FH	(60°-80°)	2439.2	25.4			G2/5000
FVH	(80°-90°)	78.7	0.8			G1/100
BL	(0°-30°)	395.5	4.1	B1/500		
BM	(30°-60°)	869.0	9.0	B1/1000		
BH	(60°-80°)	507.5	5.3	B2/1000		G2/1000
BVH	(80°-90°)	47.1	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



REPORT NUMBER: P945936

CATALOG NUMBER: GALN-SB1D-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4
2.5°	1412.8	1422.8	1410.3	1410.3	1368.6	1346.8	1305.1	1273.3	1216.2	1206.3	1168.6
5°	1670.0	1682.4	1665.0	1657.6	1608.4	1563.2	1493.2	1424.2	1322.5	1312.0	1223.2
7.5°	1869.0	1884.9	1869.5	1861.6	1817.9	1767.3	1685.4	1589.1	1445.6	1425.2	1296.7
10°	2031.4	2033.9	2028.9	2031.9	1997.6	1955.9	1872.0	1759.8	1580.6	1552.8	1385.5
12.5°	2123.2	2134.6	2144.6	2162.4	2156.5	2130.7	2055.2	1921.2	1723.6	1687.8	1482.3
15°	2166.4	2186.3	2208.6	2249.8	2283.1	2289.5	2231.9	2094.4	1869.0	1825.8	1580.1
17.5°	2181.8	2200.6	2235.9	2295.5	2367.0	2415.1	2389.3	2262.7	2013.0	1963.4	1682.9
20°	2259.7	2265.2	2286.5	2343.1	2420.6	2500.5	2519.9	2424.5	2155.5	2099.4	1789.1
22.5°	2426.5	2415.6	2421.6	2447.4	2503.0	2580.4	2624.6	2567.5	2301.9	2237.4	1896.3
25°	2702.0	2670.3	2638.5	2608.7	2637.0	2680.7	2730.8	2710.5	2455.3	2373.4	2004.6
27.5°	3050.0	3011.3	2941.3	2843.5	2809.3	2824.7	2847.0	2843.0	2597.3	2514.4	2116.3
30°	3392.6	3347.4	3264.0	3122.5	3032.2	2991.5	2974.6	2963.2	2751.7	2663.3	2228.9
32.5°	3666.1	3630.4	3548.4	3390.1	3259.0	3189.5	3133.4	3092.7	2913.0	2824.7	2348.1
35°	3905.4	3872.1	3778.3	3605.5	3463.1	3389.1	3315.6	3228.7	3080.8	2991.5	2476.2
37.5°	4123.8	4090.5	3962.0	3782.3	3638.8	3587.7	3522.1	3374.7	3249.1	3164.7	2611.7
40°	4261.8	4254.4	4134.2	3930.7	3781.8	3756.4	3734.6	3544.0	3435.8	3357.3	2760.6
42.5°	4297.1	4313.4	4218.1	4050.8	3908.8	3888.5	3939.6	3735.6	3645.2	3570.3	2929.4
45°	4212.2	4259.3	4196.8	4083.1	3999.2	3988.3	4121.3	3945.1	3877.1	3808.6	3132.9
47.5°	3997.2	4077.1	4051.3	4035.4	4023.5	4070.7	4281.2	4167.5	4139.7	4080.1	3365.3
50°	3563.3	3714.7	3759.9	3860.2	3975.4	4134.7	4426.6	4410.2	4446.5	4386.4	3648.2
52.5°	2813.2	3021.7	3283.8	3535.0	3827.4	4113.4	4586.5	4758.7	4911.6	4878.9	4098.0
55°	2322.3	2416.1	2617.6	3078.3	3540.5	4023.5	4658.4	5040.2	5373.3	5344.0	4439.0
57.5°	1945.0	2028.9	2153.0	2537.7	3106.6	3819.5	4703.1	5212.0	5689.5	5686.5	4775.6
60°	1540.4	1629.3	1756.3	2028.9	2599.8	3467.0	4693.2	5407.6	6093.1	6117.9	5186.1
62.5°	1083.7	1181.5	1322.5	1576.6	2082.0	3010.3	4490.7	5549.0	6568.2	6635.7	5680.1
65°	712.4	776.9	883.1	1102.6	1551.3	2423.0	4103.9	5567.4	7076.5	7190.7	6143.7
67.5°	499.4	524.2	586.8	705.9	1022.6	1858.1	3487.9	5377.3	7415.6	7544.2	6344.8
70°	389.7	402.1	433.9	481.5	642.4	1249.5	2672.7	4882.8	7343.1	7477.1	6134.8
72.5°	336.6	348.5	360.4	366.4	430.9	771.4	1810.5	4082.6	6660.5	6751.4	5334.1
75°	305.3	308.3	318.2	316.2	328.6	500.4	1045.0	2974.6	5255.1	5223.9	3937.6
77.5°	256.7	260.6	277.0	274.5	291.9	342.0	542.6	1919.7	3407.0	3194.5	2191.7
80°	217.4	219.4	237.3	234.3	253.7	247.7	277.0	978.5	1445.1	1224.2	631.9
82.5°	75.5	93.3	181.2	186.7	193.6	149.9	159.8	399.1	441.3	338.1	132.5
85°	36.7	39.2	92.3	131.1	130.6	75.5	77.9	142.5	139.0	109.2	44.2
87.5°	6.0	7.4	10.9	51.1	40.7	19.9	26.8	27.8	28.8	24.8	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945936

CATALOG NUMBER: GALN-SB1D-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4	1128.4
2.5°	1140.8	1116.0	1063.8	1015.7	978.0	941.7	921.4	904.0	894.1	892.1	892.1
5°	1171.6	1120.4	1025.6	945.7	893.6	854.8	834.5	821.6	815.1	811.2	810.7
7.5°	1215.7	1140.8	1005.8	914.9	860.3	832.5	822.1	820.1	819.6	820.1	821.6
10°	1276.8	1174.0	1003.8	907.5	861.8	846.4	845.9	846.4	848.4	848.9	849.4
12.5°	1342.8	1208.3	1011.7	913.9	880.7	872.2	870.7	870.2	871.7	872.7	873.2
15°	1414.8	1253.5	1025.1	927.8	901.5	892.6	891.1	888.1	887.6	887.1	886.6
17.5°	1488.8	1298.2	1040.0	942.7	914.9	902.5	897.0	890.1	884.6	883.1	884.6
20°	1563.7	1342.3	1050.4	950.2	915.9	898.5	887.6	875.7	866.3	860.8	862.8
22.5°	1643.7	1388.5	1056.9	948.2	907.0	883.1	863.3	849.4	835.0	825.6	826.1
25°	1721.6	1428.7	1056.4	937.7	889.6	859.3	834.0	816.1	796.3	786.3	786.3
27.5°	1796.6	1464.9	1044.0	919.4	864.8	831.0	800.7	779.4	760.0	750.6	750.1
30°	1874.0	1495.2	1024.6	892.6	835.5	798.3	765.0	746.6	729.2	720.3	719.8
32.5°	1950.9	1523.0	997.3	859.3	801.7	766.0	733.2	716.3	705.9	705.9	706.4
35°	2032.4	1542.4	961.1	820.6	766.0	731.7	705.9	696.0	695.0	689.0	687.5
37.5°	2118.2	1554.8	916.9	780.9	730.7	698.5	690.5	678.6	668.7	655.8	653.8
40°	2208.6	1567.2	863.8	739.7	693.5	675.6	672.2	656.3	628.0	596.2	591.7
42.5°	2318.3	1575.7	808.7	698.5	654.3	648.3	653.3	626.0	580.8	557.0	557.5
45°	2445.4	1589.6	758.0	657.8	614.1	614.1	634.9	599.2	562.0	547.1	549.5
47.5°	2610.2	1621.8	710.9	613.1	576.8	586.8	594.2	566.9	546.1	527.7	527.2
50°	2848.5	1699.3	662.2	567.9	548.5	568.4	558.0	542.1	517.8	502.9	501.4
52.5°	3144.4	1744.9	619.0	527.2	524.2	544.1	529.2	514.3	495.9	476.1	472.1
55°	3345.9	1753.4	582.8	497.4	507.8	505.9	500.4	487.0	477.1	450.8	451.2
57.5°	3571.3	1770.2	553.0	479.5	497.4	475.6	473.6	462.2	449.3	431.4	425.4
60°	3840.8	1796.6	527.2	472.6	488.5	455.7	445.8	441.3	428.4	419.5	422.0
62.5°	4134.7	1820.4	500.9	473.6	478.1	436.4	421.5	420.0	412.0	409.1	409.1
65°	4335.3	1755.4	468.1	472.6	461.7	416.5	397.6	397.1	390.7	389.7	389.2
67.5°	4265.3	1549.3	423.9	458.7	444.8	396.6	375.8	373.8	365.4	365.9	365.9
70°	3914.8	1255.5	362.9	424.4	423.9	378.8	353.0	346.5	335.1	337.1	339.1
72.5°	3257.5	930.3	281.0	367.4	390.7	362.4	326.6	316.2	301.8	303.8	303.3
75°	2352.6	632.4	204.5	279.5	340.1	343.0	300.8	283.0	265.6	268.6	269.6
77.5°	1203.8	358.4	150.4	192.6	267.1	311.8	277.5	253.7	249.7	277.5	273.5
80°	392.7	179.7	104.2	135.0	175.2	255.2	243.2	215.9	215.0	221.4	190.1
82.5°	117.2	76.0	67.0	88.9	96.8	195.6	210.0	163.3	140.5	147.9	152.9
85°	40.2	36.7	38.2	44.2	46.2	114.7	146.9	108.2	102.3	112.7	111.2
87.5°	9.4	12.9	10.9	9.9	9.9	27.8	57.1	45.2	62.5	41.7	40.2
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)