

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: P947332

Luminaire Tested: **GALN-SB2D-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17097 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 147.6
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



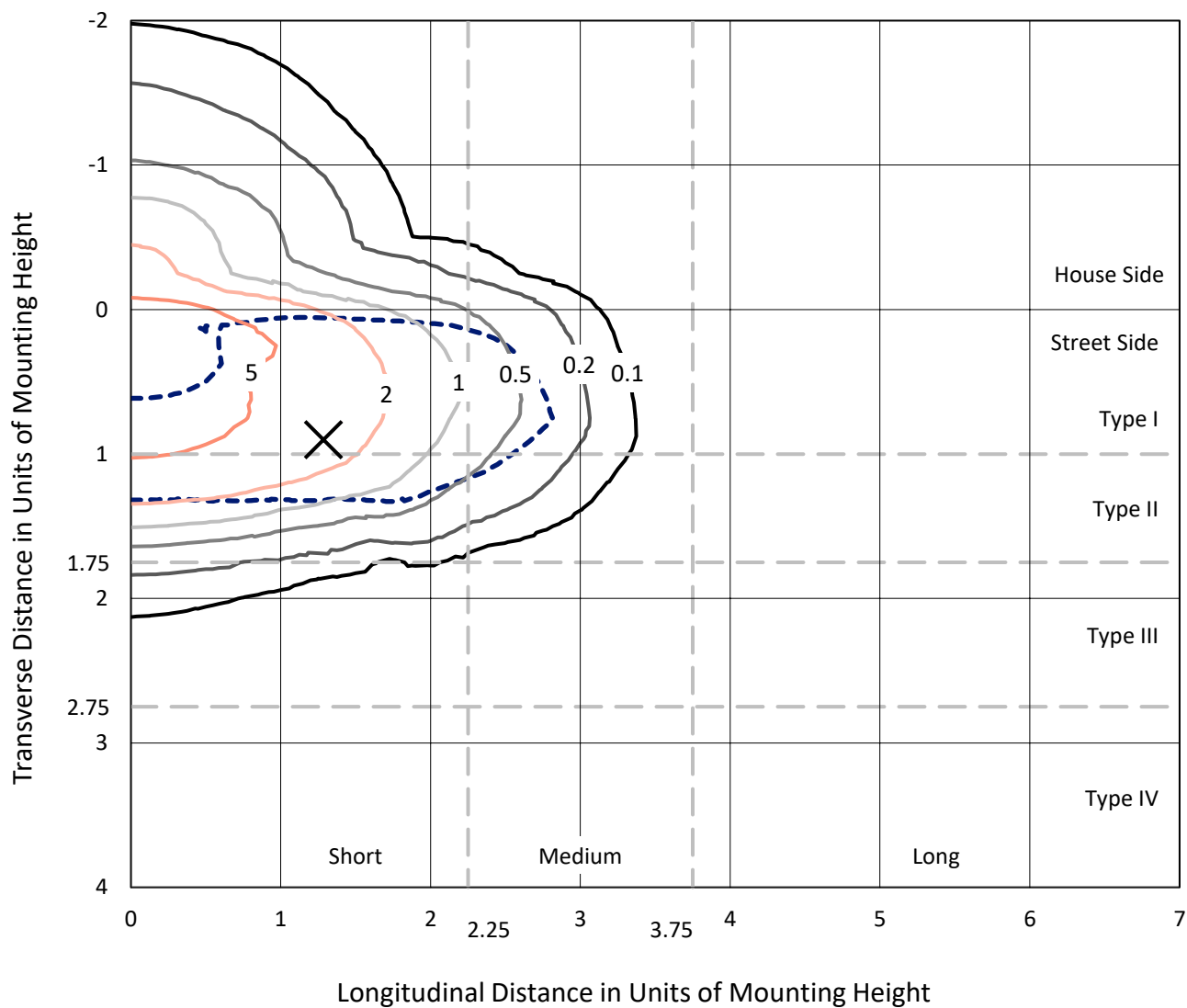
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

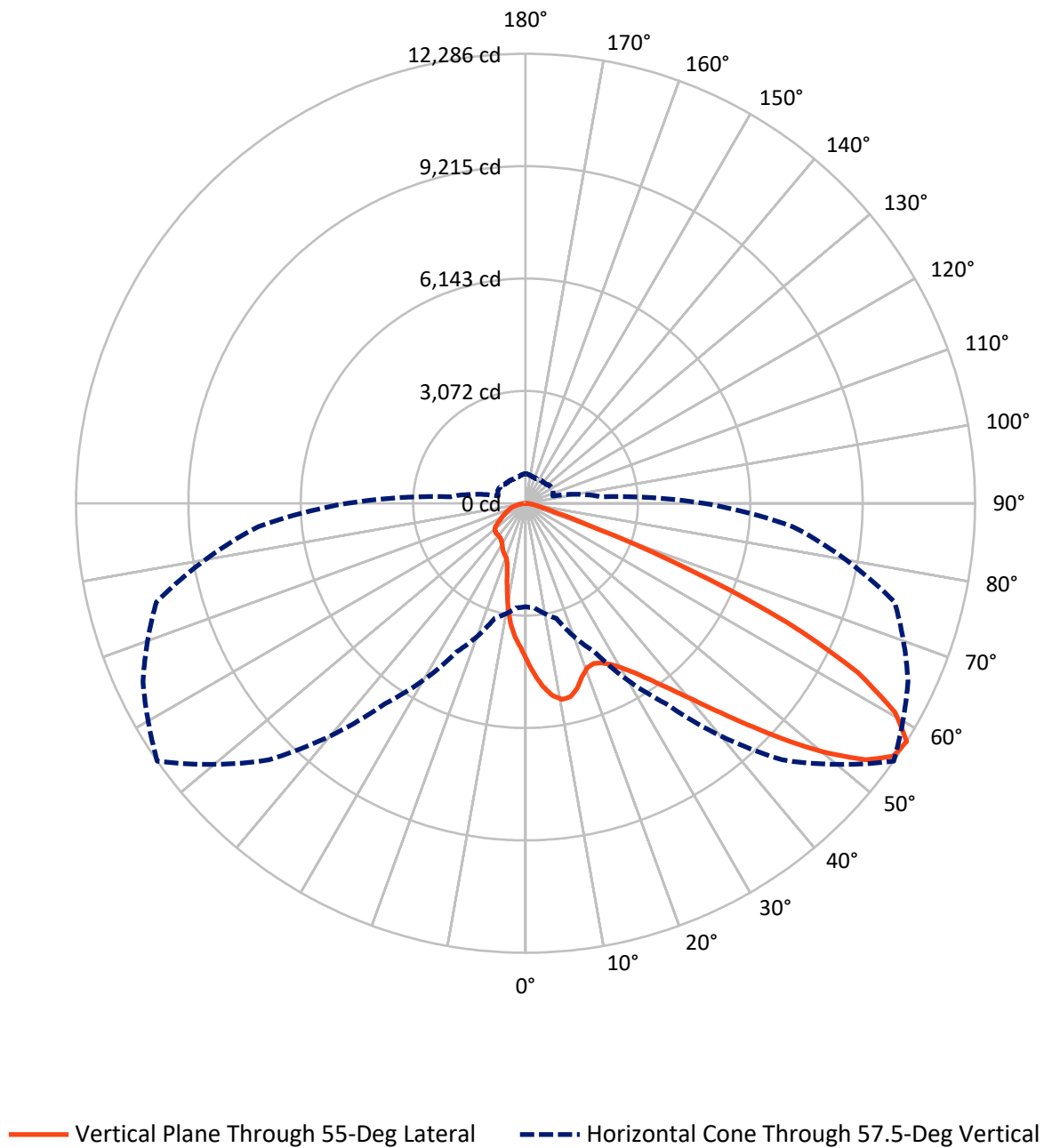


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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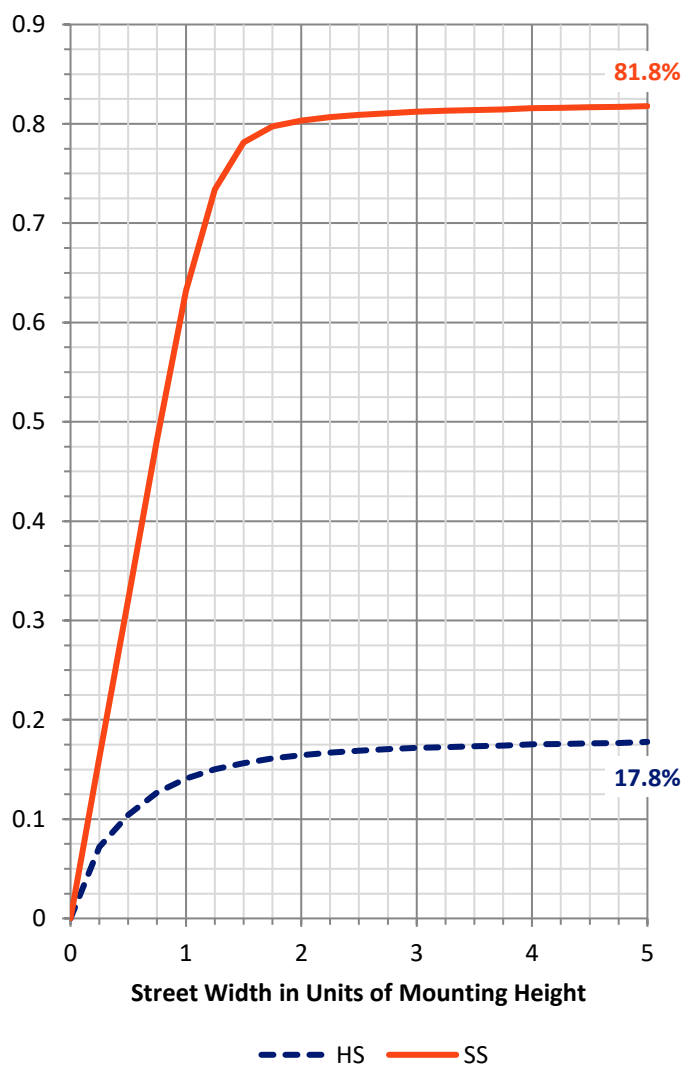
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3093.6	0.0	3093.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14003.4	0.0	14003.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	17097.0	0.0	17097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.5	2.3
10°-20°	1003.4	5.9
20°-30°	1601.1	9.4
30°-40°	2534.9	14.8
40°-50°	3880.0	22.7
50°-60°	4155.8	24.3
60°-70°	2614.4	15.3
70°-80°	773.1	4.5
80°-90°	136.7	0.8
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°	17097.0	100.0
0°-180°	17097.0	100.0

Coefficient of Utilization



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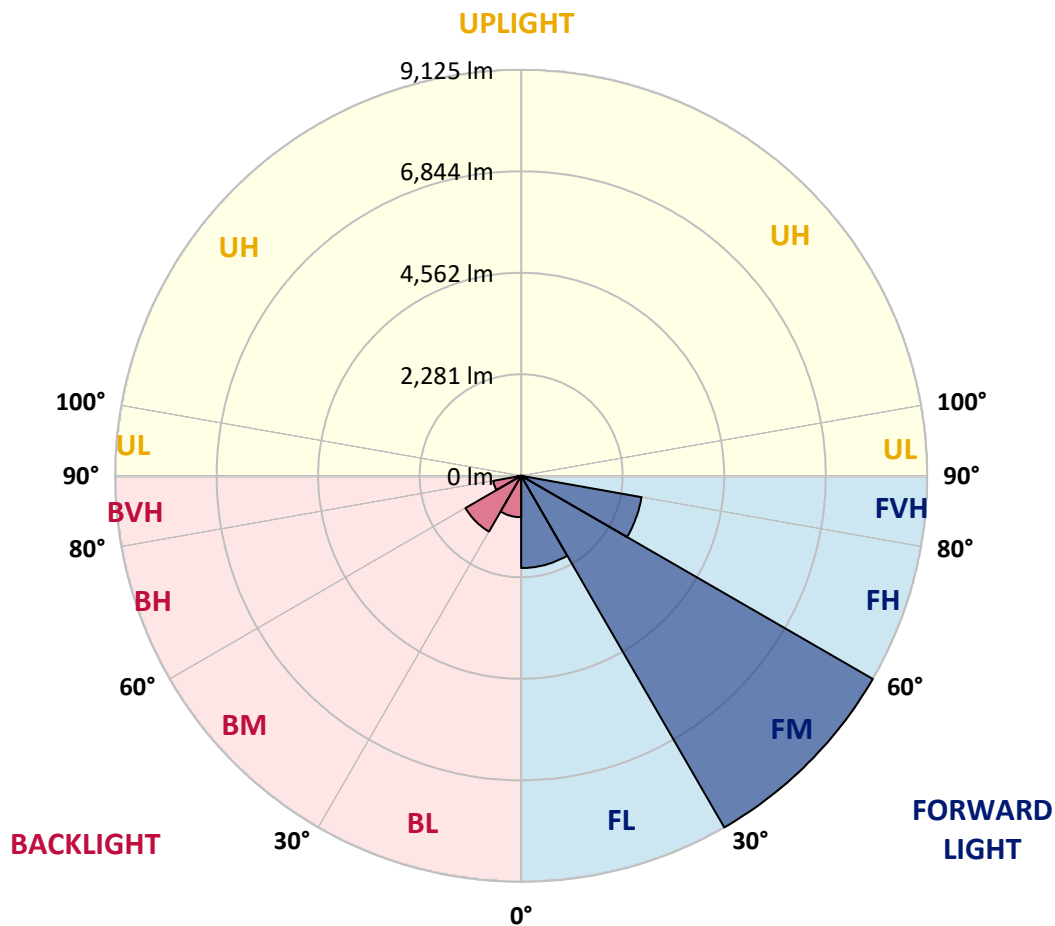
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2072.2	12.1			
FM	(30°-60°)	9124.8	53.4			
FH	(60°-80°)	2748.7	16.1			G2/5000
FVH	(80°-90°)	57.8	0.3			G1/100
BL	(0°-30°)	929.8	5.4	B2/1000		
BM	(30°-60°)	1445.9	8.5	B2/2500		
BH	(60°-80°)	638.9	3.7	B2/1000		G2/1000
BVH	(80°-90°)	78.9	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4284.0	4284.0	4284.0	4284.0	4284.0	4284.0	4284.0	4284.0	4284.0	4284.0	4284.0
2.5°	4915.0	4911.5	4930.9	4864.6	4819.6	4758.6	4678.1	4575.6	4465.1	4348.5	4298.1
5°	5357.8	5326.9	5347.2	5297.7	5248.2	5156.3	5037.0	4869.9	4665.8	4433.3	4309.6
7.5°	5288.0	5266.8	5318.9	5363.1	5400.2	5388.7	5301.2	5126.2	4862.9	4525.2	4345.8
10°	4725.0	4701.1	4774.5	4927.4	5151.9	5347.2	5453.3	5344.6	5064.4	4626.0	4381.2
12.5°	4228.3	4216.8	4265.4	4389.1	4638.4	5013.1	5433.8	5535.5	5273.8	4745.3	4428.9
15°	4016.2	4002.0	4032.9	4095.7	4254.8	4603.9	5257.1	5666.3	5479.8	4883.2	4504.9
17.5°	3969.3	3953.4	3966.7	3999.4	4101.9	4367.9	4990.1	5730.8	5694.6	5037.0	4568.5
20°	4055.9	4042.7	4044.4	4042.7	4114.3	4325.5	4804.5	5706.0	5881.9	5178.4	4630.4
22.5°	4265.4	4243.3	4244.2	4197.3	4236.2	4399.7	4755.9	5639.8	6049.0	5302.1	4677.3
25°	4606.6	4566.8	4574.7	4455.4	4444.8	4565.9	4831.9	5588.5	6215.1	5401.1	4686.1
27.5°	5073.2	5028.1	5004.3	4826.6	4741.8	4801.9	4986.6	5606.2	6372.5	5486.9	4664.0
30°	5656.6	5601.8	5553.1	5301.2	5147.5	5125.4	5227.0	5722.8	6558.1	5577.0	4626.0
32.5°	6371.6	6307.9	6219.6	5885.5	5668.9	5553.1	5538.1	5930.5	6775.5	5691.9	4606.6
35°	7222.7	7139.6	7014.1	6581.9	6307.9	6071.1	5948.2	6230.2	7073.3	5865.1	4628.6
37.5°	8099.5	8005.8	7890.9	7376.5	7039.8	6690.6	6448.5	6636.7	7470.2	6100.2	4687.0
40°	8908.2	8803.0	8696.1	8238.2	7876.7	7456.0	7061.0	7151.1	7955.4	6381.3	4786.0
42.5°	9385.5	9307.7	9267.0	9019.5	8740.3	8313.4	7822.8	7761.0	8500.7	6704.8	4899.1
45°	9364.2	9332.4	9457.9	9560.5	9494.2	9257.3	8715.5	8435.3	9047.8	6985.0	5003.4
47.5°	8864.0	8885.2	9165.4	9741.6	9995.3	10119.0	9731.9	9097.3	9523.3	7194.4	5050.2
50°	7502.9	7520.6	8169.3	9412.0	10124.3	10821.7	10740.4	9743.4	9891.9	7322.6	5039.6
52.5°	6425.5	6437.0	6715.4	8434.4	9698.3	11175.2	11649.0	10352.4	10161.5	7357.9	4980.4
55°	4839.9	4879.7	5191.7	6617.3	8590.0	10895.0	12202.2	10979.9	10332.0	7361.5	4918.5
57.5°	2827.4	2870.7	3256.1	4491.7	6676.5	9918.4	12286.2	11536.7	10447.8	7333.2	4881.4
60°	1385.0	1403.5	1571.5	2360.7	4116.9	8036.7	11611.0	11806.3	10512.3	7318.2	4879.7
62.5°	933.3	930.7	937.8	1164.9	2028.4	5163.4	10203.9	11334.3	10477.9	7260.7	4862.0
65°	802.5	792.8	766.3	817.5	1050.9	2361.6	7883.8	9925.5	10215.4	7116.6	4740.9
67.5°	693.8	694.7	695.6	679.7	750.4	1089.8	4817.8	7818.4	9273.2	6434.3	4274.2
70°	574.5	582.4	586.0	586.0	611.6	715.0	2056.7	5358.7	7314.6	5044.9	3442.5
72.5°	523.2	506.4	508.2	499.4	499.4	544.4	828.2	3037.7	4608.3	2838.0	2100.9
75°	426.9	437.5	439.3	433.1	412.8	415.4	491.4	1274.5	1971.8	1177.3	1038.5
77.5°	368.6	368.6	372.1	367.7	351.8	311.1	327.9	494.1	670.8	482.6	518.8
80°	296.1	295.2	310.2	319.1	294.3	229.8	209.5	273.1	297.9	212.1	269.6
82.5°	144.1	152.9	213.0	243.1	223.6	166.2	128.2	169.7	159.1	93.7	121.1
85°	84.0	79.5	95.5	135.2	128.2	91.9	61.9	88.4	83.1	47.7	48.6
87.5°	26.5	24.7	19.4	46.0	37.1	25.6	16.8	25.6	23.0	10.6	10.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4284.0	4284.0	4284.0	4284.0	4284.0	4284.0	4284.0	4284.0	4284.0	4284.0
2.5°	4235.3	4131.0	4027.6	3933.1	3875.6	3838.5	3801.4	3759.8	3743.9	3720.1
5°	4192.9	3991.4	3812.0	3657.3	3516.8	3406.3	3294.9	3204.8	3164.1	3191.5
7.5°	4168.2	3876.5	3599.9	3316.2	3043.0	2824.7	2634.7	2501.3	2441.2	2456.2
10°	4146.1	3746.6	3325.0	2876.9	2484.5	2214.0	2019.6	1917.9	1879.9	1887.9
12.5°	4125.7	3600.7	2993.6	2404.0	1986.9	1808.3	1752.6	1753.5	1760.6	1765.9
15°	4122.2	3424.9	2623.2	1990.4	1718.2	1706.7	1766.8	1804.8	1825.1	1831.3
17.5°	4116.9	3214.5	2245.8	1708.5	1652.8	1730.6	1786.2	1811.0	1826.9	1827.8
20°	4095.7	2947.6	1897.6	1574.1	1638.6	1705.8	1740.3	1759.7	1773.0	1777.4
22.5°	4030.3	2650.6	1626.3	1514.0	1582.1	1636.0	1676.6	1698.7	1706.7	1712.0
25°	3912.7	2318.3	1438.9	1456.6	1503.4	1571.5	1604.2	1608.6	1605.9	1613.9
27.5°	3759.0	1962.1	1322.2	1378.8	1438.9	1497.2	1514.9	1512.2	1506.9	1515.8
30°	3573.3	1642.2	1248.0	1291.3	1373.5	1426.5	1442.4	1436.2	1425.6	1435.3
32.5°	3377.1	1380.6	1187.0	1230.3	1319.6	1371.7	1387.6	1381.4	1373.5	1381.4
35°	3194.2	1197.6	1130.4	1189.6	1277.1	1328.4	1348.7	1349.6	1349.6	1359.3
37.5°	3026.3	1090.7	1083.6	1164.0	1248.0	1293.9	1323.1	1324.9	1286.9	1289.5
40°	2870.7	1045.6	1062.4	1147.2	1219.7	1263.9	1265.7	1166.7	1096.8	1095.1
42.5°	2743.4	1036.7	1068.6	1145.5	1199.4	1201.1	1076.5	999.6	980.2	981.1
45°	2624.1	1034.1	1082.7	1145.5	1169.3	1037.6	953.7	933.3	935.1	942.2
47.5°	2490.6	1023.5	1085.4	1129.5	1082.7	922.7	898.0	889.1	885.6	887.4
50°	2344.8	985.5	1051.8	1097.7	934.2	873.2	842.3	839.6	844.1	846.7
52.5°	2191.0	923.6	994.3	1040.3	866.2	829.9	795.5	801.6	821.1	827.3
55°	2090.3	851.1	918.3	925.4	818.4	789.3	760.1	774.2	810.5	822.0
57.5°	2063.8	774.2	831.7	823.7	757.4	753.9	736.2	748.6	794.6	811.4
60°	2055.8	705.3	746.8	740.7	698.2	715.0	710.6	716.8	732.7	738.0
62.5°	1993.9	650.5	670.8	662.0	645.2	674.4	685.0	671.7	684.1	690.3
65°	1836.6	606.3	596.6	590.4	597.5	624.0	645.2	618.7	630.2	647.9
67.5°	1576.8	546.2	519.7	526.8	548.9	563.0	590.4	560.4	570.1	600.1
70°	1275.4	470.2	446.3	466.7	487.9	517.0	521.5	501.1	524.1	557.7
72.5°	902.4	393.3	376.5	418.1	425.1	463.1	453.4	443.7	475.5	487.0
75°	625.8	317.3	307.6	339.4	365.0	397.7	390.7	402.1	469.3	474.6
77.5°	396.0	246.6	240.4	260.7	296.1	332.3	343.8	474.6	801.6	833.5
80°	229.8	183.8	176.8	192.7	223.6	257.2	331.4	582.4	528.5	522.3
82.5°	128.2	126.4	117.6	122.0	149.4	185.6	468.4	410.1	333.2	343.8
85°	60.1	74.2	63.6	61.0	84.0	217.4	312.9	234.2	155.6	152.0
87.5°	15.9	14.1	14.1	15.9	35.4	187.4	124.6	99.9	59.2	57.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)