

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: P947721

Luminaire Tested: **GALN-SB3A-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947721
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-SB3A-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12715 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.7
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



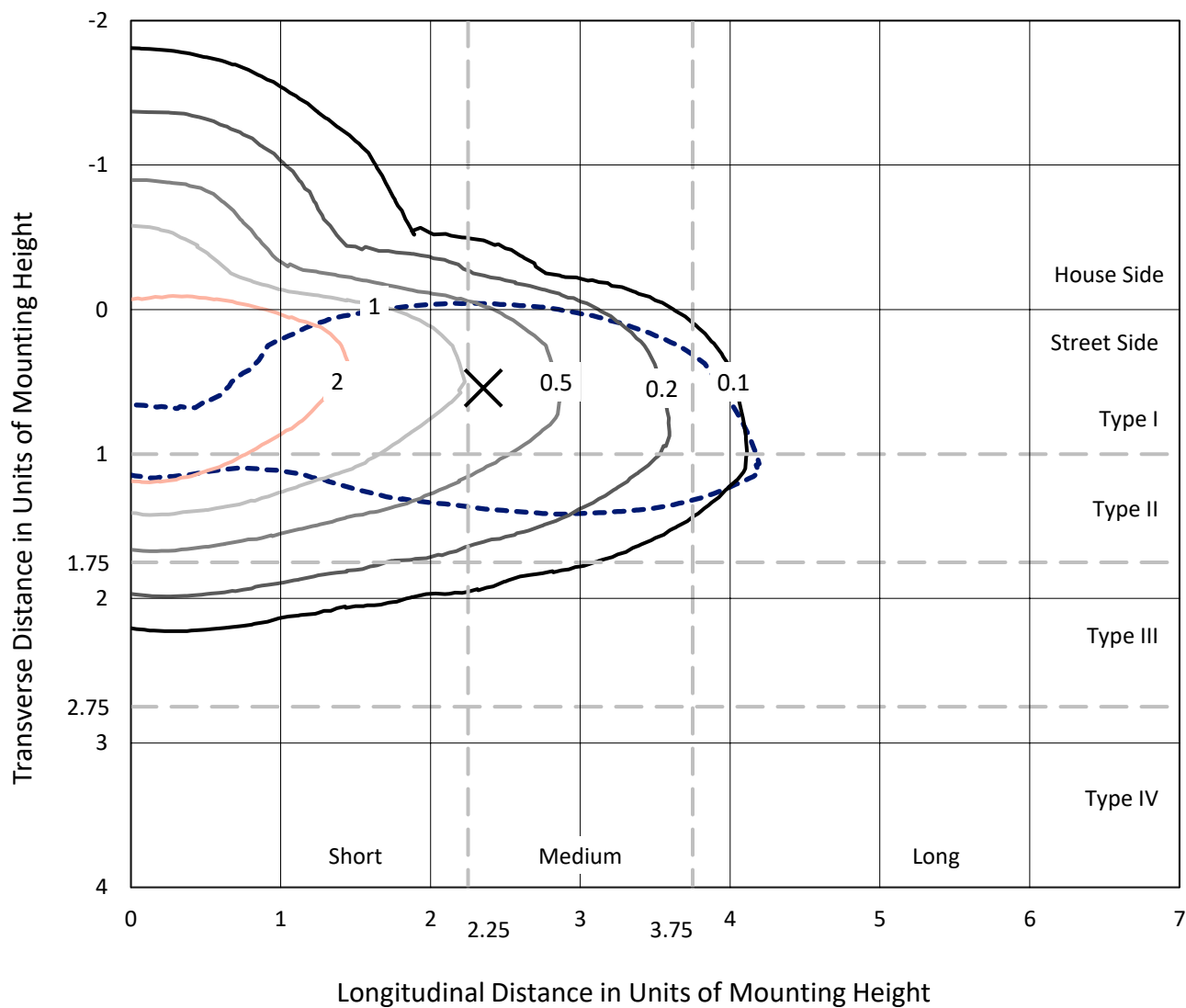
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

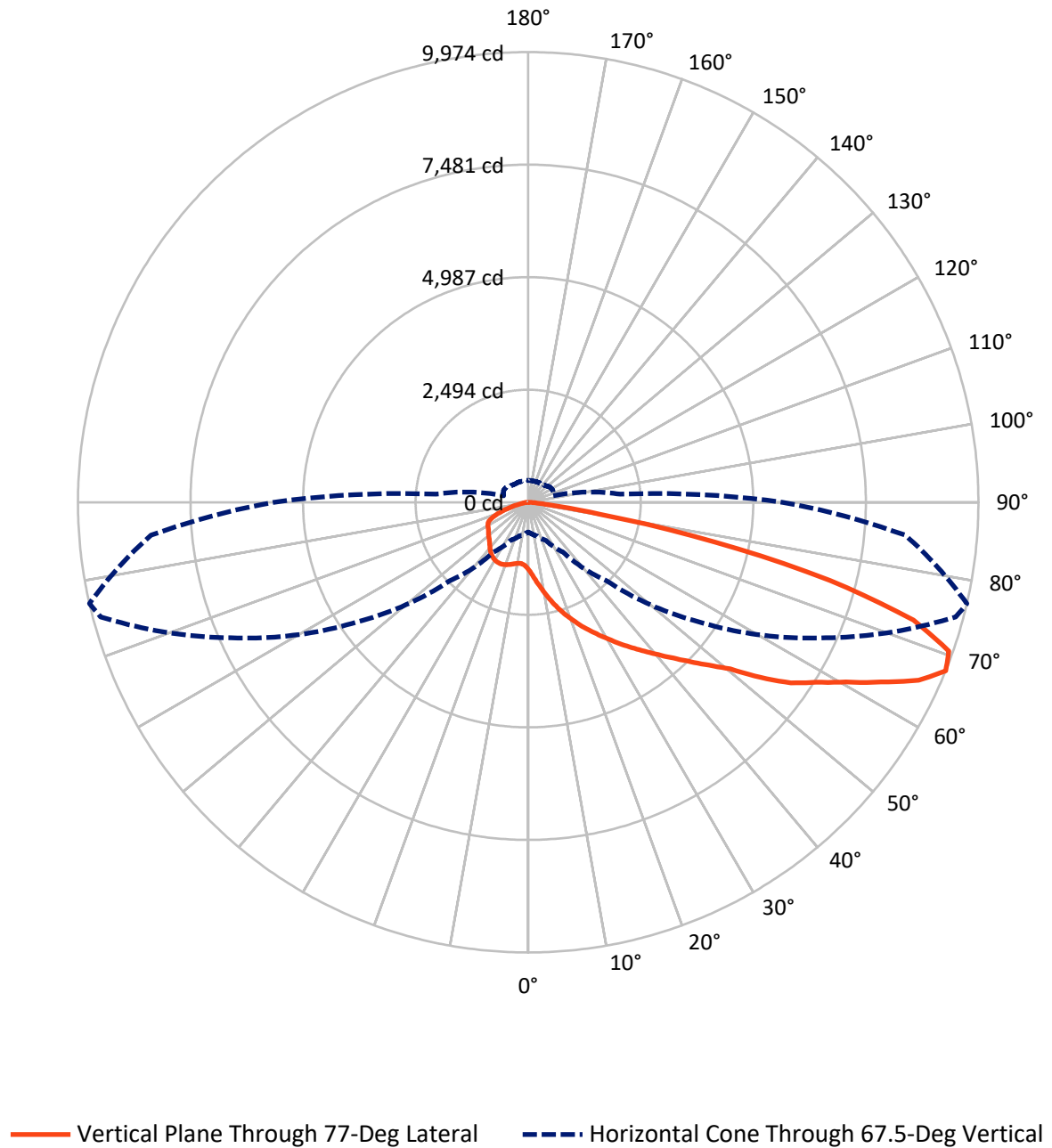


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2405.2	0.0	2405.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	10309.8	0.0	10309.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	12715.0	0.0	12715.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	1.3
10°-20°	574.5	4.5
20°-30°	1084.7	8.5
30°-40°	1747.4	13.7
40°-50°	2390.1	18.8
50°-60°	2696.1	21.2
60°-70°	2516.5	19.8
70°-80°	1379.4	10.8
80°-90°	166.4	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°	12715.0	100.0
0°-180°	12715.0	100.0

Coefficient of Utilization



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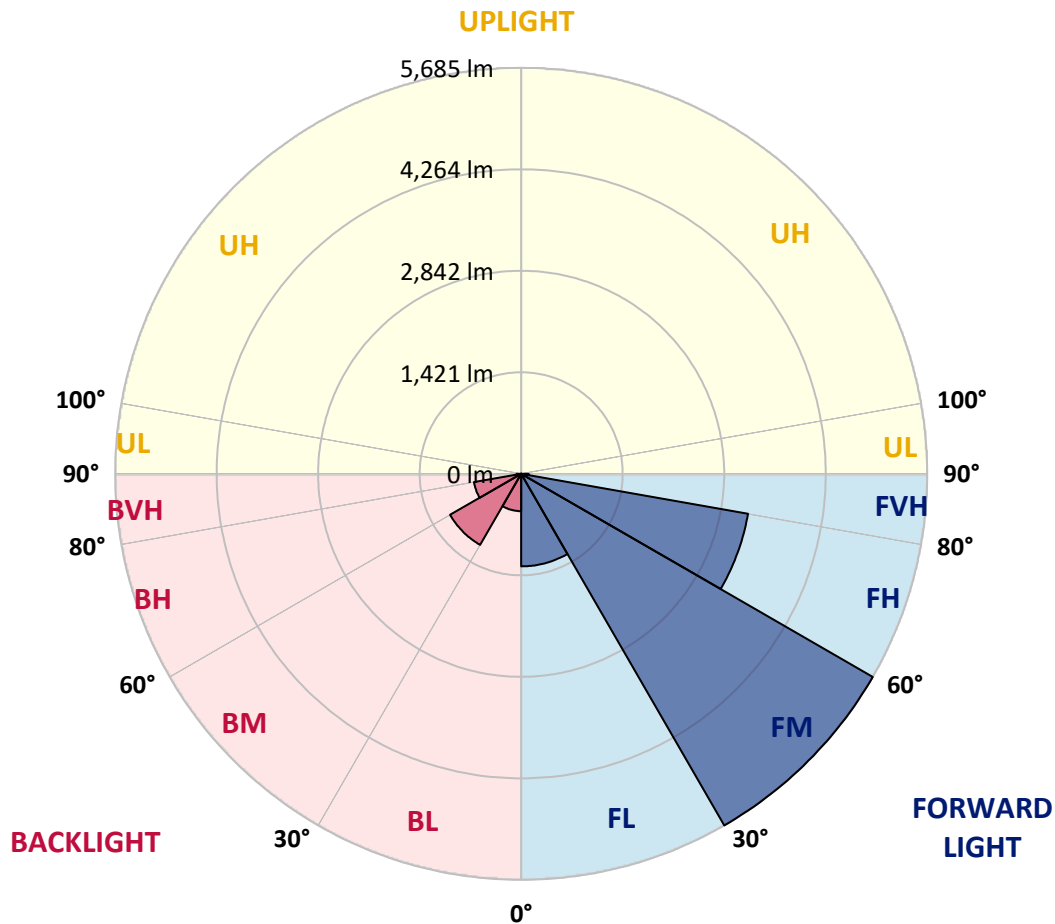
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1296.1	10.2			
FM	(30°-60°)	5684.7	44.7			
FH	(60°-80°)	3224.9	25.4			G2/5000
FVH	(80°-90°)	104.1	0.8			G2/225
BL	(0°-30°)	522.9	4.1	B2/1000		
BM	(30°-60°)	1148.9	9.0	B2/2500		
BH	(60°-80°)	671.0	5.3	B2/1000		G2/1000
BVH	(80°-90°)	62.3	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°	1491.9	1491.9	1491.9	1491.9	1491.9	1491.9	1491.9	1491.9	1491.9	1491.9	1491.9
2.5°	1867.9	1881.1	1864.7	1864.7	1809.5	1780.7	1725.5	1683.5	1608.0	1594.9	1545.0
5°	2207.9	2224.3	2201.4	2191.5	2126.5	2066.8	1974.3	1883.0	1748.5	1734.7	1617.2
7.5°	2471.1	2492.1	2471.8	2461.3	2403.5	2336.6	2228.3	2100.9	1911.3	1884.4	1714.4
10°	2685.7	2689.0	2682.5	2686.4	2641.1	2586.0	2475.1	2326.7	2089.8	2053.0	1831.8
12.5°	2807.2	2822.3	2835.4	2859.0	2851.1	2817.0	2717.3	2540.0	2278.8	2231.6	1959.8
15°	2864.3	2890.5	2920.1	2974.5	3018.5	3027.0	2950.9	2769.1	2471.1	2414.0	2089.1
17.5°	2884.6	2909.6	2956.2	3034.9	3129.4	3193.1	3159.0	2991.6	2661.5	2595.8	2225.0
20°	2987.7	2994.9	3023.1	3097.9	3200.3	3306.0	3331.6	3205.6	2849.8	2775.7	2365.5
22.5°	3208.2	3193.8	3201.6	3235.8	3309.3	3411.7	3470.1	3394.6	3043.5	2958.1	2507.2
25°	3572.5	3530.5	3488.5	3449.1	3486.5	3544.2	3610.5	3583.6	3246.3	3138.0	2650.3
27.5°	4032.6	3981.4	3888.8	3759.5	3714.2	3734.6	3764.1	3758.9	3434.0	3324.4	2798.0
30°	4485.4	4425.7	4315.4	4128.4	4008.9	3955.1	3932.8	3917.7	3638.1	3521.3	2947.0
32.5°	4847.1	4799.8	4691.5	4482.2	4308.9	4217.0	4142.8	4089.0	3851.4	3734.6	3104.5
35°	5163.4	5119.5	4995.4	4767.0	4578.6	4480.8	4383.7	4268.8	4073.3	3955.1	3273.8
37.5°	5452.2	5408.3	5238.3	5000.7	4811.0	4743.4	4656.7	4461.8	4295.8	4184.2	3453.0
40°	5634.7	5624.8	5466.0	5196.9	5000.0	4966.5	4937.7	4685.6	4542.5	4438.8	3649.9
42.5°	5681.3	5703.0	5576.9	5355.7	5168.0	5141.1	5208.7	4939.0	4819.5	4720.4	3873.1
45°	5569.1	5631.4	5548.7	5398.4	5287.5	5273.0	5448.9	5215.9	5126.0	5035.5	4142.2
47.5°	5284.9	5390.5	5356.4	5335.4	5319.6	5382.0	5660.3	5510.0	5473.2	5394.5	4449.3
50°	4711.2	4911.4	4971.1	5103.7	5256.0	5466.7	5852.6	5830.9	5878.9	5799.4	4823.5
52.5°	3719.5	3995.2	4341.7	4673.8	5060.4	5438.4	6063.9	6291.7	6493.8	6450.5	5418.1
55°	3070.4	3194.4	3460.9	4070.0	4681.0	5319.6	6159.1	6663.8	7104.2	7065.5	5869.0
57.5°	2571.5	2682.5	2846.6	3355.2	4107.4	5049.9	6218.2	6890.9	7522.3	7518.4	6314.0
60°	2036.6	2154.1	2322.1	2682.5	3437.3	4583.9	6205.1	7149.5	8055.9	8088.8	6856.8
62.5°	1432.8	1562.1	1748.5	2084.5	2752.7	3980.1	5937.3	7336.6	8684.1	8773.3	7509.9
65°	941.9	1027.2	1167.6	1457.7	2051.1	3203.6	5426.0	7360.9	9356.1	9507.1	8122.9
67.5°	660.3	693.1	775.8	933.3	1352.1	2456.7	4611.5	7109.5	9804.4	9974.4	8388.7
70°	515.2	531.6	573.6	636.7	849.3	1652.0	3533.7	6455.8	9708.6	9885.8	8111.1
72.5°	445.0	460.8	476.5	484.4	569.7	1020.0	2393.7	5397.8	8806.1	8926.2	7052.4
75°	403.7	407.6	420.7	418.1	434.5	661.6	1381.6	3932.8	6948.0	6906.7	5206.1
77.5°	339.3	344.6	366.2	363.0	385.9	452.2	717.4	2538.1	4504.5	4223.6	2897.7
80°	287.5	290.1	313.7	309.8	335.4	327.5	366.2	1293.6	1910.6	1618.5	835.5
82.5°	99.8	123.4	239.6	246.8	256.0	198.2	211.3	527.7	583.5	447.0	175.2
85°	48.6	51.9	122.1	173.3	172.6	99.8	103.0	188.4	183.8	144.4	58.4
87.5°	7.9	9.8	14.4	67.6	53.8	26.3	35.4	36.8	38.1	32.8	13.1
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°	1491.9	1491.9	1491.9	1491.9	1491.9	1491.9	1491.9	1491.9	1491.9	1491.9	1491.9
2.5°	1508.3	1475.5	1406.5	1342.9	1293.0	1245.1	1218.2	1195.2	1182.1	1179.4	1179.4
5°	1549.0	1481.4	1356.0	1250.3	1181.4	1130.2	1103.3	1086.2	1077.7	1072.5	1071.8
7.5°	1607.4	1508.3	1329.7	1209.6	1137.4	1100.7	1086.9	1084.3	1083.6	1084.3	1086.2
10°	1688.1	1552.2	1327.1	1199.8	1139.4	1119.1	1118.4	1119.1	1121.7	1122.3	1123.0
12.5°	1775.4	1597.5	1337.6	1208.3	1164.4	1153.2	1151.2	1150.6	1152.5	1153.8	1154.5
15°	1870.6	1657.3	1355.3	1226.7	1191.9	1180.1	1178.1	1174.2	1173.5	1172.9	1172.2
17.5°	1968.4	1716.3	1375.0	1246.4	1209.6	1193.2	1186.0	1176.8	1169.6	1167.6	1169.6
20°	2067.5	1774.7	1388.8	1256.2	1211.0	1188.0	1173.5	1157.8	1145.3	1138.1	1140.7
22.5°	2173.1	1835.8	1397.4	1253.6	1199.1	1167.6	1141.4	1123.0	1104.0	1091.5	1092.2
25°	2276.2	1889.0	1396.7	1239.8	1176.2	1136.1	1102.7	1079.0	1052.8	1039.6	1039.6
27.5°	2375.3	1936.9	1380.3	1215.5	1143.3	1098.7	1058.7	1030.5	1004.9	992.4	991.7
30°	2477.7	1976.9	1354.7	1180.1	1104.6	1055.4	1011.4	987.1	964.2	952.4	951.7
32.5°	2579.4	2013.7	1318.6	1136.1	1060.0	1012.7	969.4	947.1	933.3	933.3	934.0
35°	2687.1	2039.3	1270.7	1084.9	1012.7	967.4	933.3	920.2	918.9	911.0	909.0
37.5°	2800.6	2055.7	1212.3	1032.4	966.1	923.5	913.0	897.2	884.1	867.0	864.4
40°	2920.1	2072.1	1142.0	977.9	916.9	893.3	888.7	867.7	830.3	788.3	782.4
42.5°	3065.1	2083.2	1069.2	923.5	865.1	857.2	863.7	827.6	767.9	736.4	737.1
45°	3233.1	2101.6	1002.2	869.7	811.9	811.9	839.5	792.2	743.0	723.3	726.6
47.5°	3451.0	2144.3	939.9	810.6	762.7	775.8	785.6	749.5	722.0	697.7	697.0
50°	3766.1	2246.7	875.6	750.9	725.3	751.5	737.7	716.7	684.6	664.9	662.9
52.5°	4157.3	2307.0	818.5	697.0	693.1	719.4	699.7	680.0	655.7	629.4	624.2
55°	4423.7	2318.2	770.5	657.7	671.4	668.8	661.6	643.9	630.7	596.0	596.6
57.5°	4721.7	2340.5	731.2	634.0	657.7	628.8	626.1	611.1	594.0	570.4	562.5
60°	5078.1	2375.3	697.0	624.8	645.8	602.5	589.4	583.5	566.4	554.6	557.9
62.5°	5466.7	2406.8	662.2	626.1	632.1	576.9	557.2	555.3	544.8	540.8	540.8
65°	5731.8	2320.8	618.9	624.8	610.4	550.7	525.7	525.1	516.5	515.2	514.6
67.5°	5639.3	2048.4	560.5	606.5	588.1	524.4	496.9	494.2	483.1	483.7	483.7
70°	5175.9	1659.9	479.8	561.2	560.5	500.8	466.7	458.1	443.0	445.7	448.3
72.5°	4306.9	1230.0	371.5	485.7	516.5	479.1	431.9	418.1	399.1	401.7	401.0
75°	3110.4	836.2	270.4	369.5	449.6	453.5	397.7	374.1	351.1	355.1	356.4
77.5°	1591.6	473.9	198.9	254.7	353.1	412.2	366.9	335.4	330.1	366.9	361.6
80°	519.2	237.6	137.8	178.5	231.7	337.4	321.6	285.5	284.2	292.7	251.4
82.5°	154.9	100.4	88.6	117.5	128.0	258.6	277.6	215.9	185.7	195.6	202.2
85°	53.2	48.6	50.5	58.4	61.0	151.6	194.3	143.1	135.2	149.0	147.0
87.5°	12.5	17.1	14.4	13.1	13.1	36.8	75.5	59.7	82.7	55.1	53.2
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)