

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: P948078

Luminaire Tested: **GALN-SB3B-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948078
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-SB3B-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15962 lumens
Efficiency: N/A
Efficacy: 146.2 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): 109.2
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

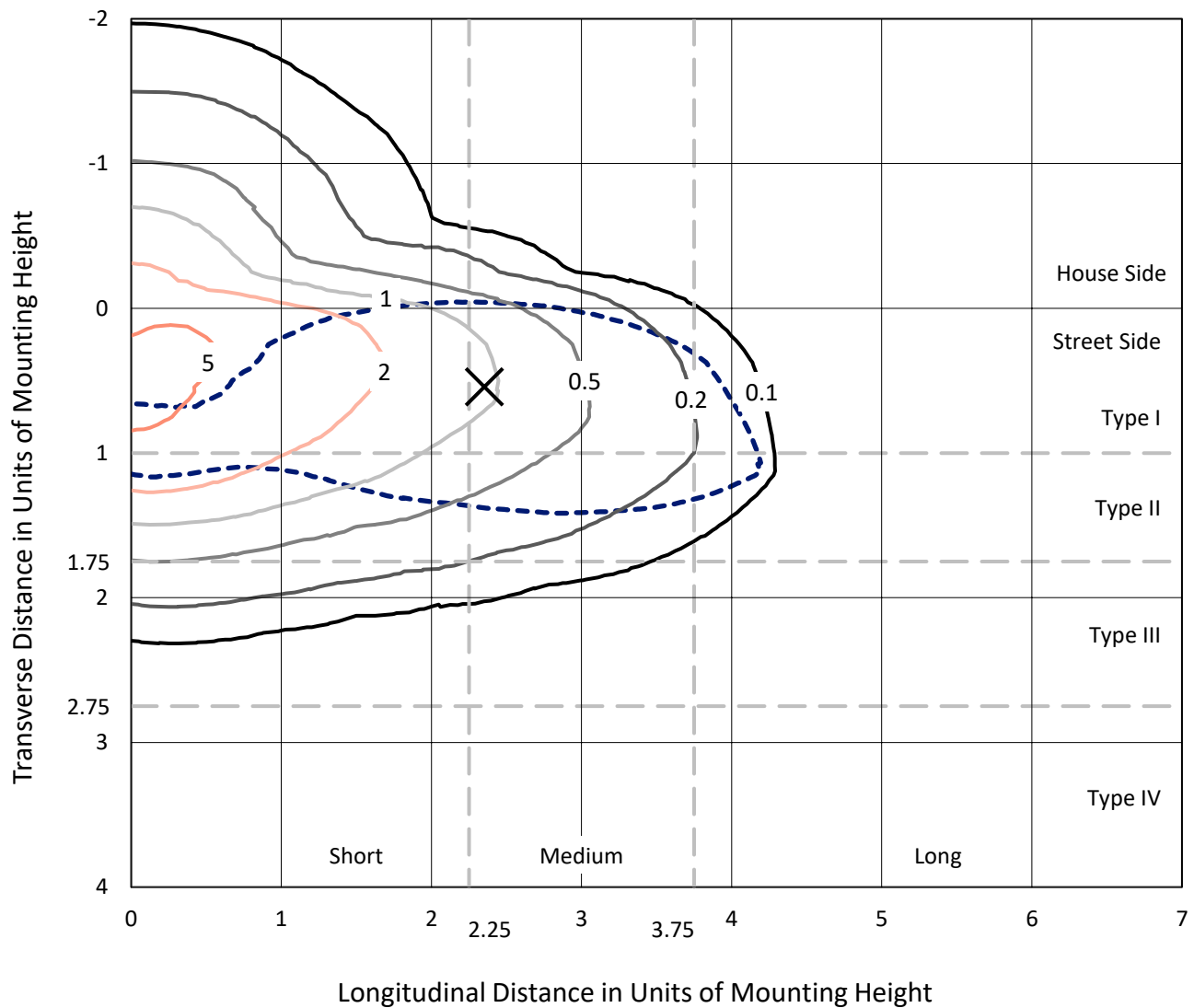


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Iso-Footcandle Lines of Horizontal Illumination

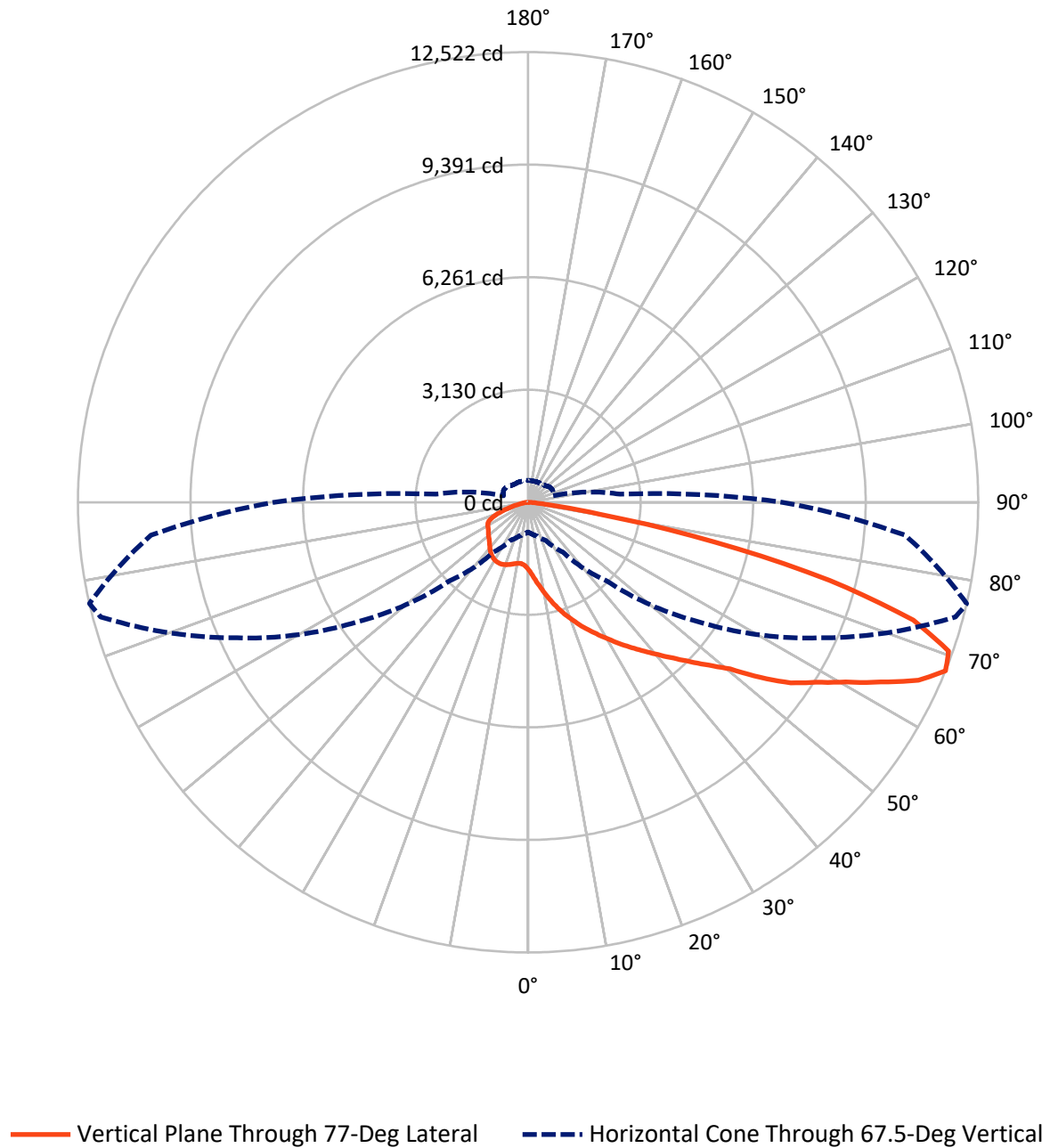
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	3019.4	0.0	3019.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	12942.6	0.0	12942.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	15962.0	0.0	15962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.7	1.3
10°-20°	721.2	4.5
20°-30°	1361.7	8.5
30°-40°	2193.6	13.7
40°-50°	3000.5	18.8
50°-60°	3384.6	21.2
60°-70°	3159.1	19.8
70°-80°	1731.7	10.8
80°-90°	208.9	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°	15962.0	100.0
0°-180°	15962.0	100.0

Coefficient of Utilization



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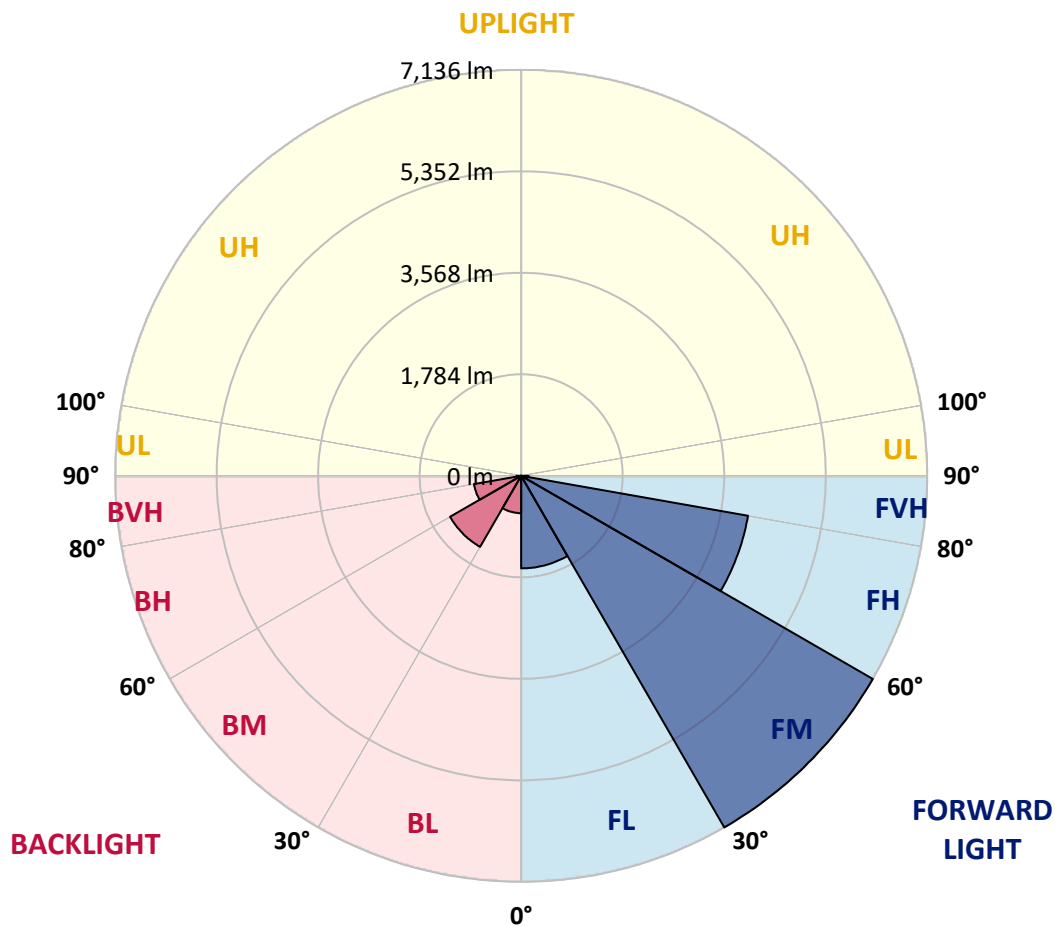
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1627.1	10.2			
FM	(30°-60°)	7136.4	44.7			
FH	(60°-80°)	4048.4	25.4			G2/5000
FVH	(80°-90°)	130.6	0.8			G2/225
BL	(0°-30°)	656.5	4.1	B2/1000		
BM	(30°-60°)	1442.3	9.0	B2/2500		
BH	(60°-80°)	842.4	5.3	B2/1000		G2/1000
BVH	(80°-90°)	78.2	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°	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8
2.5°	2345.0	2361.4	2340.8	2340.8	2271.6	2235.4	2166.2	2113.4	2018.7	2002.2	1939.6
5°	2771.8	2792.4	2763.5	2751.2	2669.6	2594.6	2478.4	2363.9	2195.0	2177.7	2030.2
7.5°	3102.2	3128.5	3103.0	3089.8	3017.3	2933.3	2797.3	2637.5	2399.3	2365.6	2152.2
10°	3371.6	3375.7	3367.5	3372.4	3315.6	3246.4	3107.1	2920.9	2623.5	2577.3	2299.6
12.5°	3524.0	3543.0	3559.5	3589.1	3579.2	3536.4	3411.2	3188.7	2860.8	2801.4	2460.3
15°	3595.7	3628.7	3665.8	3734.1	3789.3	3800.1	3704.5	3476.2	3102.2	3030.5	2622.6
17.5°	3621.3	3652.6	3711.1	3809.9	3928.6	4008.5	3965.7	3755.6	3341.1	3258.7	2793.2
20°	3750.6	3759.7	3795.1	3889.0	4017.6	4150.2	4182.4	4024.2	3577.6	3484.5	2969.5
22.5°	4027.5	4009.3	4019.2	4062.1	4154.4	4282.9	4356.2	4261.5	3820.7	3713.5	3147.5
25°	4484.8	4432.0	4379.3	4329.9	4376.8	4449.3	4532.5	4498.8	4075.3	3939.3	3327.1
27.5°	5062.3	4998.1	4881.9	4719.6	4662.7	4688.3	4725.4	4718.8	4310.9	4173.3	3512.5
30°	5630.9	5555.9	5417.5	5182.6	5032.7	4965.1	4937.1	4918.2	4567.2	4420.5	3699.5
32.5°	6084.9	6025.5	5889.6	5626.8	5409.2	5293.9	5200.8	5133.2	4834.9	4688.3	3897.3
35°	6482.0	6426.8	6271.1	5984.3	5747.9	5625.1	5503.2	5359.0	5113.4	4965.1	4109.9
37.5°	6844.6	6789.3	6575.9	6277.7	6039.6	5954.7	5845.9	5601.2	5392.8	5252.7	4334.8
40°	7073.6	7061.3	6861.9	6524.0	6276.9	6234.8	6198.6	5882.2	5702.6	5572.4	4582.0
42.5°	7132.1	7159.3	7001.1	6723.4	6487.8	6454.0	6538.9	6200.2	6050.3	5925.8	4862.1
45°	6991.2	7069.5	6965.7	6777.0	6637.7	6619.6	6840.4	6547.9	6435.1	6321.3	5199.9
47.5°	6634.4	6767.1	6724.3	6697.9	6678.1	6756.4	7105.7	6917.1	6870.9	6772.0	5585.6
50°	5914.3	6165.6	6240.6	6407.0	6598.2	6862.7	7347.2	7320.0	7380.1	7280.4	6055.2
52.5°	4669.3	5015.4	5450.4	5867.3	6352.7	6827.3	7612.5	7898.4	8152.2	8097.8	6801.7
55°	3854.4	4010.2	4344.7	5109.3	5876.4	6678.1	7731.9	8365.6	8918.4	8869.8	7367.8
57.5°	3228.2	3367.5	3573.5	4212.0	5156.3	6339.5	7806.1	8650.7	9443.3	9438.3	7926.4
60°	2556.7	2704.2	2915.1	3367.5	4315.0	5754.5	7789.6	8975.3	10113.2	10154.4	8607.8
62.5°	1798.7	1961.0	2195.0	2616.9	3455.6	4996.4	7453.5	9210.1	10901.7	11013.7	9427.6
65°	1182.4	1289.5	1465.8	1830.0	2574.8	4021.7	6811.6	9240.6	11745.4	11934.9	10197.2
67.5°	828.9	870.1	973.9	1171.7	1697.3	3084.0	5789.1	8925.0	12308.2	12521.6	10530.9
70°	646.8	667.4	720.1	799.2	1066.2	2073.9	4436.1	8104.4	12187.9	12410.3	10182.4
72.5°	558.6	578.4	598.2	608.1	715.2	1280.4	3004.9	6776.2	11054.9	11205.7	8853.3
75°	506.7	511.7	528.2	524.9	545.5	830.5	1734.4	4937.1	8722.3	8670.4	6535.6
77.5°	426.0	432.6	459.8	455.6	484.5	567.7	900.6	3186.2	5654.8	5302.1	3637.7
80°	360.9	364.2	393.8	388.9	421.0	411.2	459.8	1624.0	2398.5	2031.9	1048.9
82.5°	125.2	154.9	300.7	309.8	321.3	248.8	265.3	662.5	732.5	561.1	220.0
85°	61.0	65.1	153.3	217.5	216.7	125.2	129.4	236.5	230.7	181.3	73.3
87.5°	9.9	12.4	18.1	84.9	67.6	33.0	44.5	46.1	47.8	41.2	16.5
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°	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8	1872.8
2.5°	1893.4	1852.2	1765.7	1685.8	1623.2	1563.0	1529.3	1500.4	1483.9	1480.6	1480.6
5°	1944.5	1859.7	1702.3	1569.6	1483.1	1418.8	1385.1	1363.6	1352.9	1346.3	1345.5
7.5°	2017.9	1893.4	1669.3	1518.5	1427.9	1381.8	1364.5	1361.2	1360.3	1361.2	1363.6
10°	2119.2	1948.6	1666.0	1506.2	1430.4	1404.8	1404.0	1404.8	1408.1	1409.0	1409.8
12.5°	2228.8	2005.5	1679.2	1516.9	1461.7	1447.7	1445.2	1444.4	1446.9	1448.5	1449.3
15°	2348.3	2080.5	1701.5	1540.0	1496.3	1481.5	1479.0	1474.0	1473.2	1472.4	1471.6
17.5°	2471.0	2154.6	1726.2	1564.7	1518.5	1497.9	1488.9	1477.3	1468.3	1465.8	1468.3
20°	2595.4	2228.0	1743.5	1577.0	1520.2	1491.3	1473.2	1453.4	1437.8	1428.7	1432.0
22.5°	2728.1	2304.6	1754.2	1573.7	1505.4	1465.8	1432.8	1409.8	1385.9	1370.2	1371.1
25°	2857.5	2371.3	1753.4	1556.4	1476.5	1426.3	1384.2	1354.6	1321.6	1305.1	1305.1
27.5°	2981.9	2431.5	1732.8	1526.0	1435.3	1379.3	1329.0	1293.6	1261.5	1245.8	1245.0
30°	3110.4	2481.7	1700.6	1481.5	1386.7	1324.9	1269.7	1239.2	1210.4	1195.6	1194.7
32.5°	3238.1	2527.9	1655.3	1426.3	1330.7	1271.4	1217.0	1189.0	1171.7	1171.7	1172.5
35°	3373.3	2560.0	1595.2	1362.0	1271.4	1214.5	1171.7	1155.2	1153.5	1143.6	1141.2
37.5°	3515.8	2580.6	1521.8	1296.1	1212.9	1159.3	1146.1	1126.3	1109.9	1088.4	1085.1
40°	3665.8	2601.2	1433.7	1227.7	1151.1	1121.4	1115.6	1089.3	1042.3	989.6	982.1
42.5°	3847.8	2615.2	1342.2	1159.3	1086.0	1076.1	1084.3	1039.0	964.0	924.5	925.3
45°	4058.8	2638.3	1258.2	1091.7	1019.2	1019.2	1053.8	994.5	932.7	908.0	912.1
47.5°	4332.3	2691.8	1179.9	1017.6	957.4	973.9	986.3	941.0	906.3	875.9	875.0
50°	4727.8	2820.4	1099.1	942.6	910.5	943.4	926.1	899.8	859.4	834.7	832.2
52.5°	5218.9	2896.2	1027.5	875.0	870.1	903.0	878.3	853.6	823.1	790.2	783.6
55°	5553.4	2910.2	967.3	825.6	842.9	839.6	830.5	808.3	791.8	748.1	749.0
57.5°	5927.5	2938.2	917.9	795.9	825.6	789.3	786.0	767.1	745.7	716.0	706.1
60°	6374.9	2981.9	875.0	784.4	810.8	756.4	739.9	732.5	711.1	696.2	700.4
62.5°	6862.7	3021.4	831.4	786.0	793.5	724.3	699.5	697.1	683.9	678.9	678.9
65°	7195.6	2913.5	777.0	784.4	766.3	691.3	660.0	659.2	648.4	646.8	646.0
67.5°	7079.4	2571.5	703.7	761.3	738.3	658.3	623.7	620.4	606.4	607.3	607.3
70°	6497.7	2083.8	602.3	704.5	703.7	628.7	585.8	575.1	556.2	559.5	562.8
72.5°	5406.8	1544.1	466.4	609.7	648.4	601.5	542.2	524.9	501.0	504.3	503.4
75°	3904.7	1049.7	339.5	463.9	564.4	569.3	499.3	469.7	440.8	445.8	447.4
77.5°	1998.1	594.9	249.7	319.7	443.3	517.4	460.6	421.0	414.4	460.6	454.0
80°	651.7	298.3	173.0	224.1	290.9	423.5	403.7	358.4	356.8	367.5	315.6
82.5°	194.5	126.1	111.2	147.5	160.7	324.6	348.5	271.1	233.2	245.5	253.8
85°	66.7	61.0	63.4	73.3	76.6	190.3	243.9	179.6	169.7	187.0	184.6
87.5°	15.7	21.4	18.1	16.5	16.5	46.1	94.8	75.0	103.8	69.2	66.7
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)