

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: P953427

Luminaire Tested: **GALN-SB7A-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7A-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28919 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 199.1
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

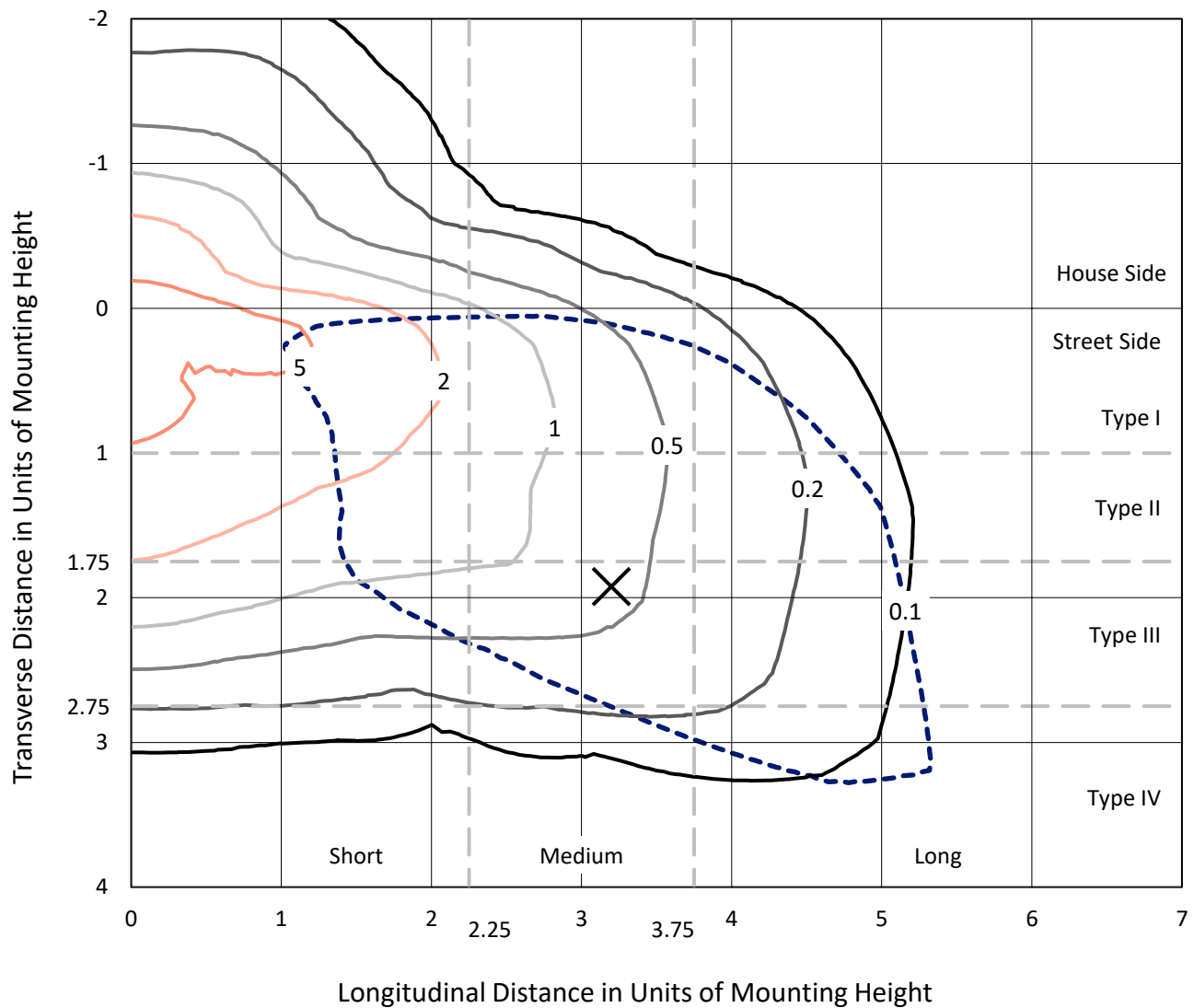


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Iso-Footcandle Lines of Horizontal Illumination

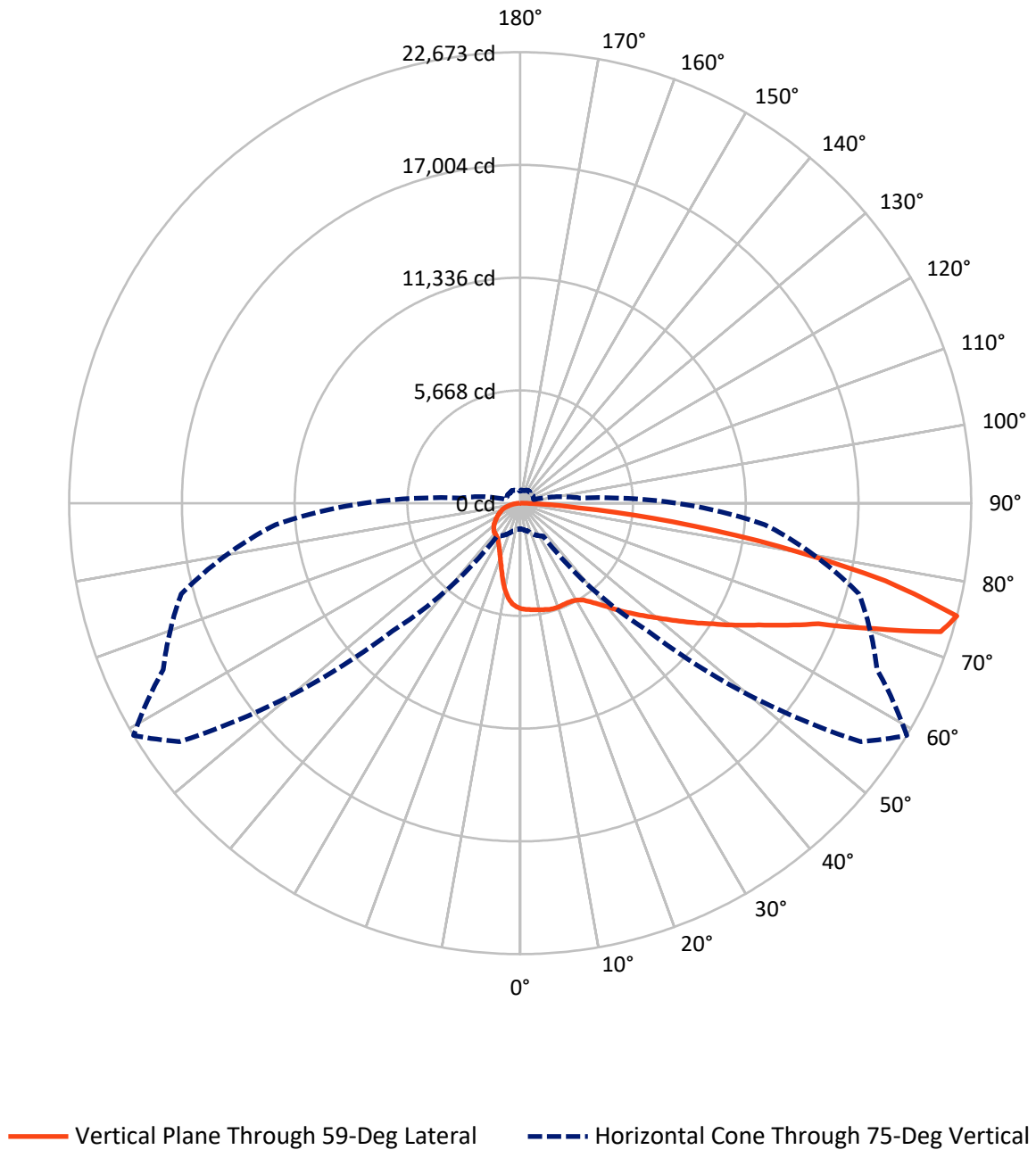
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5424.0	0.0	5424.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23495.0	0.0	23495.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	28919.0	0.0	28919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.9	1.6
10°-20°	1216.6	4.2
20°-30°	1847.9	6.4
30°-40°	2746.8	9.5
40°-50°	4085.0	14.1
50°-60°	5544.8	19.2
60°-70°	6769.3	23.4
70°-80°	5312.5	18.4
80°-90°	920.3	3.2
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°	28919.0	100.0
0°-180°	28919.0	100.0

Coefficient of Utilization



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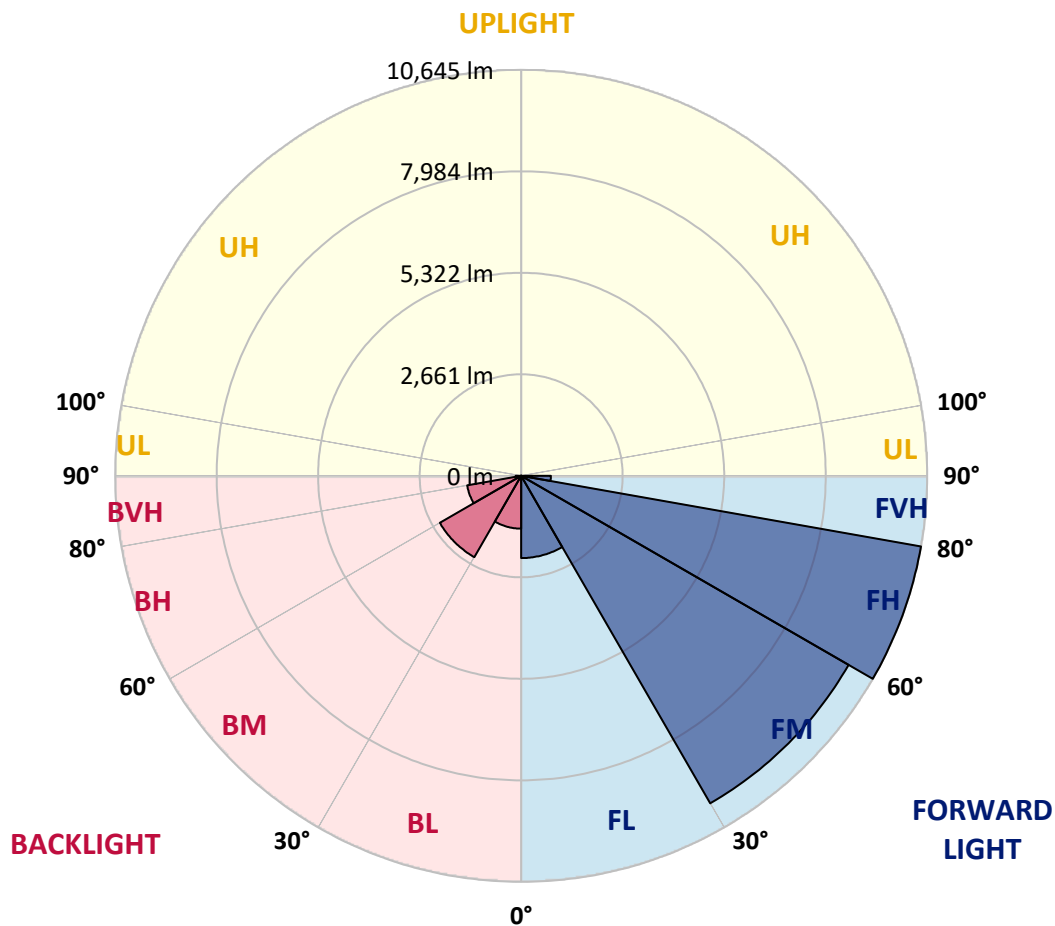
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2156.2	7.5			
FM	(30°-60°)	9914.6	34.3			
FH	(60°-80°)	10644.8	36.8			G4/12000
FVH	(80°-90°)	779.4	2.7			G5
BL	(0°-30°)	1384.1	4.8	B3/2500		
BM	(30°-60°)	2461.9	8.5	B2/2500		
BH	(60°-80°)	1437.0	5.0	B3/2500		G3/2500
BVH	(80°-90°)	140.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0
2.5°	5353.1	5334.5	5353.1	5345.4	5342.2	5336.0	5337.6	5348.5	5342.2	5350.0	5323.6
5°	5317.4	5306.5	5325.1	5320.5	5340.7	5343.8	5364.0	5376.5	5384.2	5385.8	5365.6
7.5°	5258.2	5247.3	5273.8	5295.6	5339.1	5351.6	5393.6	5413.8	5424.7	5443.4	5413.8
10°	5042.0	5037.3	5102.7	5185.1	5287.8	5351.6	5415.4	5449.6	5466.7	5516.5	5482.3
12.5°	4659.3	4665.5	4751.1	4909.8	5115.1	5320.5	5440.3	5490.0	5516.5	5578.7	5563.2
15°	4293.7	4292.2	4385.5	4555.1	4842.9	5183.6	5452.7	5538.3	5583.4	5675.2	5662.7
17.5°	4082.1	4075.9	4141.2	4270.4	4538.0	4973.5	5421.6	5564.7	5661.2	5776.3	5765.4
20°	4043.2	4030.8	4065.0	4128.8	4318.6	4743.3	5340.7	5564.7	5723.4	5872.7	5866.5
22.5°	4184.8	4164.6	4150.6	4142.8	4226.8	4553.5	5248.9	5546.0	5815.2	6011.2	6000.3
25°	4469.5	4438.4	4366.8	4296.8	4271.9	4467.9	5168.0	5541.4	5952.1	6197.9	6157.4
27.5°	4930.0	4891.1	4746.4	4578.4	4427.5	4511.5	5132.2	5569.4	6103.0	6395.4	6314.6
30°	5500.9	5458.9	5276.9	5018.7	4748.0	4673.3	5177.3	5651.8	6295.9	6658.4	6499.7
32.5°	6012.7	5966.1	5810.5	5547.6	5182.0	4953.3	5320.5	5809.0	6599.2	7023.9	6778.1
35°	6467.0	6412.6	6272.5	6029.9	5714.1	5346.9	5578.7	6087.4	7030.2	7618.2	7156.2
37.5°	6911.9	6848.2	6695.7	6439.0	6218.1	5871.2	5935.0	6445.2	7602.7	8340.1	7657.1
40°	7409.8	7318.0	7132.8	6879.3	6664.6	6485.7	6403.2	6883.9	8184.5	9145.9	8282.5
42.5°	7892.0	7804.9	7584.0	7367.8	7098.6	7047.3	6946.2	7397.3	8820.8	10031.1	8917.2
45°	8411.6	8307.4	8039.8	7766.0	7596.4	7420.6	7472.0	7910.7	9444.6	10933.4	9583.1
47.5°	8898.6	8781.9	8466.1	8161.2	8067.8	7734.9	7954.2	8475.4	10093.3	11848.1	10242.7
50°	9161.5	9046.3	8783.4	8508.1	8435.0	8122.3	8477.0	9096.1	10773.2	12759.8	10875.8
52.5°	9380.8	9256.4	8912.6	8760.1	8738.3	8543.9	9121.0	9805.5	11453.0	13565.6	11487.2
55°	9614.2	9475.7	9037.0	8900.1	8999.7	9016.8	9884.9	10609.8	12171.7	14351.3	12064.4
57.5°	9883.3	9707.5	9156.8	9018.3	9254.8	9570.6	10762.3	11443.7	12878.0	15079.3	12577.8
60°	10136.9	9959.5	9387.0	9206.6	9530.2	10213.1	11768.8	12453.3	13677.6	15728.0	13063.1
62.5°	10186.7	10040.4	9570.6	9569.1	9903.5	10963.0	12960.5	13472.3	14376.1	16369.0	13498.7
65°	9324.8	9233.0	8954.6	9555.1	10438.7	12042.6	14287.5	14776.0	15264.4	16929.0	13881.4
67.5°	7097.1	7109.5	7089.3	8248.3	10006.2	13593.6	16208.7	16171.4	16361.2	17557.5	14321.7
70°	3245.2	3318.3	3794.3	5693.8	8016.5	13772.5	19385.5	18901.6	17738.0	18371.2	14702.8
72.5°	1753.3	1809.3	2003.7	2758.2	4819.5	12244.8	21759.5	22103.3	19569.0	18918.8	14284.4
75°	1286.6	1317.7	1453.0	1753.3	2024.0	9100.8	20908.5	22672.6	19797.7	17641.5	12335.1
77.5°	963.0	977.0	1087.4	1389.2	1036.1	4797.8	16706.6	18777.2	16947.7	14494.4	9111.7
80°	698.5	714.1	796.5	1042.3	726.5	1754.8	11471.7	13179.8	11607.0	9239.2	4541.1
82.5°	482.3	488.5	524.3	709.4	507.2	681.4	6509.0	7728.7	6479.5	3242.1	1225.9
85°	290.9	298.7	314.2	413.8	287.8	323.6	2809.6	2906.0	1936.8	774.7	381.1
87.5°	119.8	127.6	140.0	174.2	113.6	90.2	463.6	581.8	362.5	227.1	118.2
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°	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0
2.5°	5315.8	5304.9	5275.3	5234.9	5197.6	5150.9	5130.7	5113.6	5098.0	5068.4	5054.4
5°	5348.5	5318.9	5239.6	5136.9	5020.2	4892.6	4768.2	4682.6	4609.5	4555.1	4509.9
7.5°	5398.2	5342.2	5197.6	4987.5	4720.0	4446.2	4198.8	4023.0	3890.8	3842.6	3758.5
10°	5449.6	5382.7	5130.7	4760.4	4298.4	3876.8	3548.5	3368.1	3262.3	3228.1	3175.2
12.5°	5510.3	5412.2	5026.4	4444.6	3827.0	3365.0	3078.7	2972.9	2918.5	2899.8	2904.5
15°	5598.9	5437.1	4869.3	4049.5	3377.4	2991.6	2806.5	2733.3	2705.3	2703.8	2710.0
17.5°	5665.8	5441.8	4625.1	3626.3	3032.0	2766.0	2613.6	2585.6	2604.2	2632.2	2643.1
20°	5740.5	5399.8	4304.6	3240.5	2789.4	2568.4	2504.7	2523.3	2568.4	2608.9	2622.9
22.5°	5793.4	5323.6	3917.2	2940.3	2579.3	2454.9	2451.8	2490.7	2515.6	2535.8	2546.7
25°	5840.1	5194.5	3506.5	2688.2	2406.7	2386.4	2420.7	2408.2	2391.1	2408.2	2419.1
27.5°	5874.3	4990.7	3139.4	2467.3	2285.3	2339.8	2319.5	2291.5	2290.0	2299.3	2314.9
30°	5863.4	4718.4	2837.6	2257.3	2199.7	2252.6	2204.4	2199.7	2195.1	2199.7	2216.9
32.5°	5863.4	4408.8	2605.8	2112.6	2145.3	2125.1	2120.4	2109.5	2090.8	2089.3	2109.5
35°	5896.1	4099.2	2406.7	2034.8	2100.2	2052.0	2055.1	2028.6	1989.7	1971.1	1989.7
37.5°	5963.0	3850.3	2209.1	1997.5	2020.8	2019.3	2006.8	1961.7	1893.3	1834.2	1854.4
40°	6124.8	3777.2	2073.7	1980.4	1983.5	2002.2	1969.5	1882.4	1726.8	1630.4	1642.8
42.5°	6378.3	3900.1	2044.2	1938.4	1958.6	1977.3	1913.5	1711.3	1600.8	1543.2	1543.2
45°	6700.4	4114.8	2108.0	1877.7	1899.5	1932.2	1742.4	1645.9	1596.1	1597.7	1605.5
47.5°	7108.0	4340.4	2226.2	1824.8	1813.9	1832.6	1628.8	1569.7	1501.2	1518.4	1561.9
50°	7579.3	4569.1	2338.2	1753.3	1719.0	1658.4	1555.7	1499.7	1412.6	1372.1	1383.0
52.5°	8089.6	4790.0	2383.3	1666.1	1616.4	1546.4	1505.9	1437.5	1331.7	1264.8	1263.2
55°	8573.4	4990.7	2333.5	1561.9	1513.7	1459.2	1453.0	1411.0	1297.4	1204.1	1204.1
57.5°	9030.8	5158.7	2209.1	1456.1	1409.5	1376.8	1418.8	1398.6	1255.4	1135.7	1129.4
60°	9418.2	5273.8	2028.6	1348.8	1316.1	1299.0	1362.8	1356.6	1196.3	1062.5	1057.9
62.5°	9726.2	5318.9	1829.5	1246.1	1238.3	1207.2	1285.0	1285.0	1121.7	991.0	986.3
65°	9967.3	5275.3	1627.3	1145.0	1160.5	1113.9	1190.1	1180.8	1042.3	927.2	921.0
67.5°	10180.4	5132.2	1403.2	1045.4	1081.2	1022.1	1090.5	1068.8	955.2	863.4	857.2
70°	10275.3	4799.3	1148.1	945.9	989.4	931.9	991.0	950.5	857.2	795.0	782.5
72.5°	9513.1	3988.8	903.9	841.6	879.0	832.3	883.6	837.0	751.4	723.4	700.1
75°	7870.2	2993.1	695.4	728.1	756.1	720.3	754.5	720.3	642.5	662.7	605.2
77.5°	5715.6	2020.8	532.0	608.3	620.7	602.1	631.6	592.7	522.7	518.0	494.7
80°	2842.2	1183.9	416.9	480.7	476.0	463.6	497.8	479.2	420.0	444.9	440.3
82.5°	823.0	507.2	303.4	337.6	328.3	331.4	356.3	365.6	547.6	542.9	555.4
85°	258.2	199.1	182.0	188.2	178.9	183.6	210.0	416.9	385.8	225.6	244.2
87.5°	66.9	68.5	45.1	48.2	49.8	59.1	66.9	253.6	121.3	79.3	84.0
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)