

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: P457083

Luminaire Tested: **GALN-SA8B-827-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34424 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

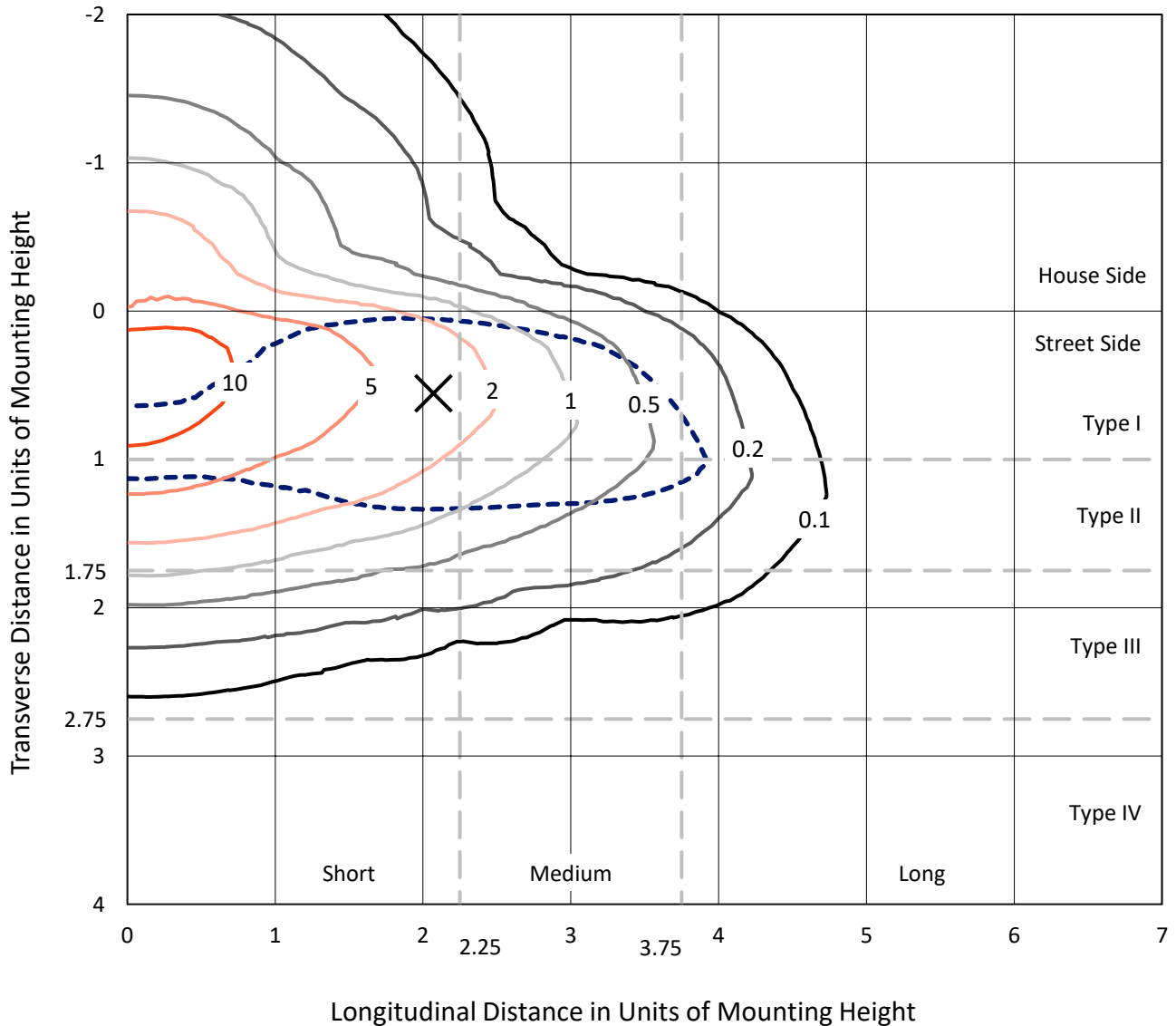
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

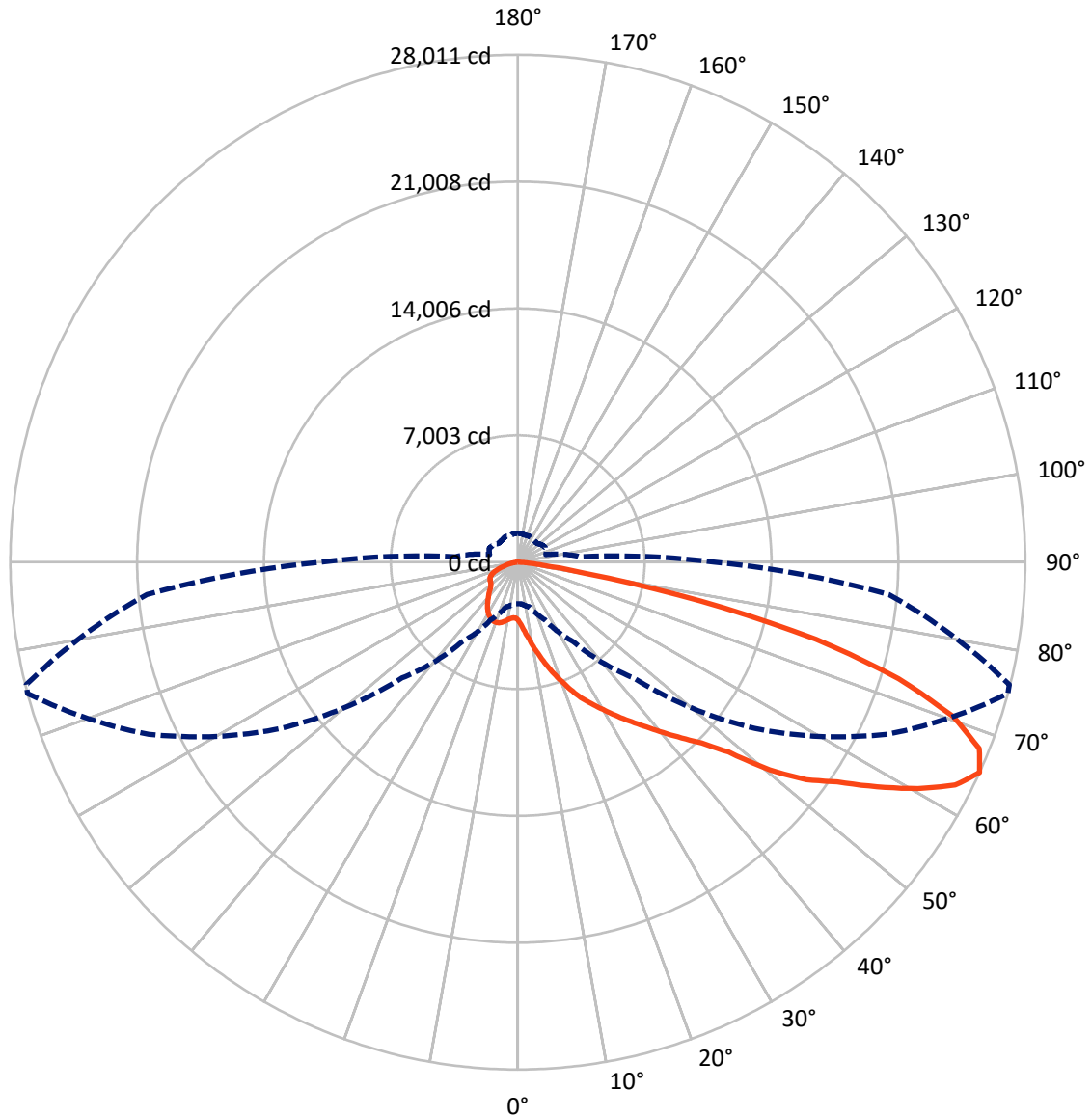
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5787.1	0.0	5787.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	28636.9	0.0	28636.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	34424.0	0.0	34424.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.6	1.1
10°-20°	1522.1	4.4
20°-30°	2940.2	8.5
30°-40°	4775.7	13.9
40°-50°	6569.4	19.1
50°-60°	7756.2	22.5
60°-70°	6795.7	19.7
70°-80°	3244.3	9.4
80°-90°	431.7	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°	34424.0	100.0
0°-180°	34424.0	100.0

Coefficient of Utilization



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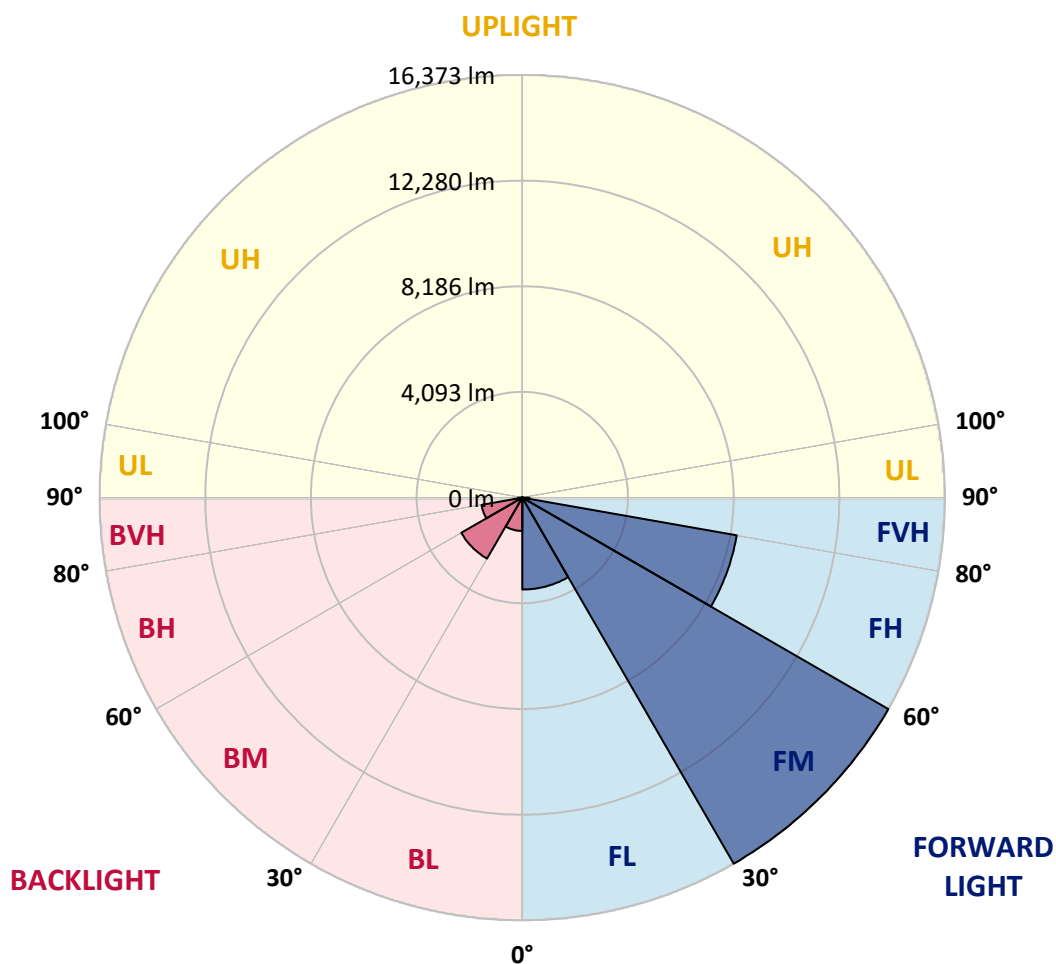
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3558.9	10.3			
FM	(30°-60°)	16372.8	47.6			
FH	(60°-80°)	8435.4	24.5			G4/12000
FVH	(80°-90°)	269.8	0.8			G3/500
BL	(0°-30°)	1292.0	3.8	B3/2500		
BM	(30°-60°)	2728.6	7.9	B3/5000		
BH	(60°-80°)	1604.7	4.7	B3/2500		G3/2500
BVH	(80°-90°)	161.9	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4
2.5°	4249.6	4221.6	4191.7	4109.6	4021.8	3922.9	3781.0	3644.7	3463.6	3458.0	3323.5
5°	5427.8	5409.1	5276.6	5200.0	4996.5	4725.8	4496.1	4139.5	3809.0	3769.8	3508.4
7.5°	6510.7	6437.9	6387.5	6249.3	6047.7	5700.4	5256.0	4774.3	4221.6	4169.3	3736.2
10°	7326.7	7319.2	7293.1	7173.6	7022.3	6676.9	6184.0	5493.1	4744.4	4641.7	4012.5
12.5°	7937.2	7942.8	7939.1	7937.2	7829.0	7535.8	7001.8	6273.6	5272.8	5200.0	4331.8
15°	8338.7	8394.7	8417.1	8510.5	8519.8	8323.7	7864.4	7027.9	5868.4	5760.2	4675.3
17.5°	8603.8	8631.8	8736.4	8895.1	9023.9	8988.5	8579.5	7726.3	6477.1	6296.0	5032.0
20°	8857.7	8906.3	8986.6	9203.2	9431.0	9535.5	9248.0	8441.4	7080.2	6964.5	5425.9
22.5°	9386.2	9455.2	9483.2	9593.4	9787.6	9972.4	9841.7	9126.6	7741.2	7584.4	5844.2
25°	10280.5	10353.3	10274.9	10248.8	10312.3	10403.7	10375.7	9772.7	8364.8	8140.8	6240.0
27.5°	11445.6	11455.0	11301.8	11156.2	10999.4	10952.7	10866.8	10345.9	8906.3	8719.6	6637.7
30°	12696.6	12651.8	12397.9	12134.6	11869.5	11608.1	11361.6	10898.5	9509.4	9294.7	7027.9
32.5°	13858.0	13833.7	13551.8	13142.9	12694.7	12448.3	11949.7	11456.8	10155.4	9948.2	7429.4
35°	14728.1	14763.5	14453.6	14007.3	13518.2	13299.7	12670.5	12043.1	10823.9	10597.9	7866.3
37.5°	15346.1	15327.4	15052.9	14666.4	14237.0	14046.6	13512.5	12683.5	11542.7	11326.1	8344.3
40°	15566.4	15555.2	15351.7	15069.8	14797.1	14729.9	14393.8	13374.4	12366.1	12112.2	8919.4
42.5°	15426.4	15450.6	15316.2	15239.7	15189.2	15237.8	15269.5	14279.9	13264.2	13030.8	9543.0
45°	14996.9	14983.9	14965.2	15090.3	15374.1	15693.4	16135.9	15135.1	14240.7	14054.0	10379.5
47.5°	14229.5	14322.9	14369.6	14715.0	15334.9	16091.1	17132.9	16281.5	15657.9	15495.5	11654.7
50°	13155.9	13230.6	13506.9	14121.2	15045.5	16240.5	18107.6	18156.1	18021.7	17717.4	13040.2
52.5°	11479.2	11595.0	12164.5	13290.4	14451.7	16178.8	18697.6	19763.8	19941.1	19713.3	14405.0
55°	9602.7	9765.2	10366.4	11843.3	13633.9	15842.8	19104.7	20695.5	21403.1	21192.1	15719.5
57.5°	7765.5	7937.2	8555.3	9985.5	12207.4	15099.6	19371.7	21733.6	23393.5	23119.0	17355.1
60°	5819.9	5999.1	6529.4	8002.6	10176.0	13647.0	19190.5	22633.6	25382.0	25264.4	18992.6
62.5°	3754.8	3952.8	4413.9	5633.2	7821.5	11662.2	18221.5	23130.2	27103.5	26961.6	20187.6
65°	2287.3	2309.7	2563.6	3497.2	5353.1	9029.5	16005.2	22471.1	28011.0	27968.0	20551.7
67.5°	1478.8	1514.3	1630.0	2094.9	3209.6	6271.7	12797.4	20295.9	27480.7	27465.7	19799.2
70°	1249.1	1260.3	1312.6	1413.4	1865.3	3803.4	8986.6	16828.6	25466.0	25466.0	17990.0
72.5°	1116.6	1131.5	1150.2	1181.9	1331.3	2154.7	5362.4	13099.9	21987.5	22133.2	15312.5
75°	1013.9	1010.1	1021.3	1026.9	1135.2	1407.8	2772.7	9688.6	17009.7	16718.4	11089.0
77.5°	868.2	873.8	868.2	892.5	1002.7	1071.7	1407.8	6501.4	10308.5	9931.4	5566.0
80°	713.3	722.6	731.9	746.9	857.0	814.1	845.8	2963.2	3812.7	3732.4	1719.6
82.5°	535.9	548.9	563.9	599.4	674.0	537.7	534.0	1265.9	1376.1	1260.3	633.0
85°	216.6	255.8	386.5	422.0	423.8	295.0	328.6	528.4	562.0	548.9	248.3
87.5°	50.4	59.7	125.1	188.6	173.6	110.2	121.4	171.8	196.1	181.1	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4	3198.4
2.5°	3261.9	3196.6	3084.5	2998.6	2937.0	2882.9	2849.3	2828.7	2821.3	2819.4	2821.3
5°	3372.1	3256.3	3078.9	2966.9	2905.3	2869.8	2849.3	2847.4	2849.3	2851.1	2845.5
7.5°	3523.3	3357.1	3125.6	3021.0	2974.4	2948.2	2938.9	2935.2	2937.0	2935.2	2935.2
10°	3725.0	3497.2	3217.1	3108.8	3069.6	3039.7	3024.8	3015.4	3008.0	3000.5	2996.8
12.5°	3947.2	3652.1	3316.1	3211.5	3155.5	3108.8	3075.2	3050.9	3034.1	3017.3	3013.6
15°	4195.5	3816.5	3426.2	3280.6	3200.3	3131.2	3073.3	3034.1	3004.2	2980.0	2978.1
17.5°	4432.6	3971.4	3500.9	3312.3	3194.7	3097.6	3021.0	2966.9	2929.6	2897.8	2894.1
20°	4686.5	4118.9	3534.5	3291.8	3138.7	3021.0	2920.2	2854.9	2811.9	2776.4	2770.8
22.5°	4942.3	4244.0	3530.8	3226.4	3041.6	2903.4	2797.0	2727.9	2677.5	2642.0	2628.9
25°	5186.9	4344.9	3484.1	3121.9	2907.1	2763.4	2655.1	2591.6	2546.8	2503.8	2503.8
27.5°	5407.3	4404.6	3396.3	2994.9	2769.0	2617.7	2531.9	2474.0	2432.9	2404.9	2388.1
30°	5623.8	4432.6	3276.8	2834.3	2623.3	2494.5	2425.4	2391.8	2354.5	2322.7	2319.0
32.5°	5818.0	4427.0	3127.5	2677.5	2485.2	2393.7	2365.7	2339.5	2300.3	2255.5	2244.3
35°	6006.6	4389.7	2950.1	2505.7	2369.4	2333.9	2341.4	2304.1	2233.1	2177.1	2167.8
37.5°	6212.0	4322.4	2755.9	2365.7	2272.3	2305.9	2324.6	2242.4	2126.7	2038.9	2018.4
40°	6449.1	4245.9	2554.3	2225.6	2195.8	2279.8	2279.8	2128.5	1969.8	1915.7	1900.8
42.5°	6727.3	4182.4	2386.2	2108.0	2132.3	2216.3	2207.0	1977.3	1912.0	1884.0	1876.5
45°	7168.0	4160.0	2212.6	2005.3	2080.0	2141.6	2065.1	1925.0	1887.7	1865.3	1857.8
47.5°	7864.4	4186.1	2059.5	1928.8	2020.3	2066.9	1906.4	1889.6	1863.4	1831.7	1827.9
50°	8510.5	4161.9	1951.2	1885.8	1968.0	1977.3	1841.0	1846.6	1831.7	1796.2	1788.7
52.5°	9038.9	4085.3	1882.1	1863.4	1923.2	1820.5	1779.4	1799.9	1794.3	1749.5	1742.0
55°	9619.5	4038.6	1848.5	1863.4	1893.3	1684.2	1721.5	1751.4	1743.9	1712.2	1710.3
57.5°	10323.5	4048.0	1824.2	1869.0	1863.4	1615.1	1663.6	1699.1	1697.2	1687.9	1687.9
60°	11044.2	4051.7	1786.9	1867.1	1827.9	1560.9	1603.9	1654.3	1658.0	1663.6	1663.6
62.5°	11283.2	3889.3	1714.0	1833.5	1749.5	1508.7	1547.9	1617.0	1613.2	1628.2	1630.0
65°	10836.9	3439.3	1605.7	1757.0	1648.7	1471.3	1504.9	1568.4	1547.9	1587.1	1594.5
67.5°	9864.1	2845.5	1437.7	1618.8	1536.7	1432.1	1476.9	1501.2	1463.8	1540.4	1542.3
70°	8525.4	2221.9	1224.8	1422.8	1409.7	1391.0	1454.5	1417.2	1364.9	1458.2	1439.6
72.5°	7128.8	1697.2	978.4	1163.2	1239.8	1329.4	1415.3	1308.9	1236.1	1264.1	1230.5
75°	5355.0	1254.7	786.1	911.2	1032.5	1241.7	1379.8	1178.2	1066.1	1040.0	1032.5
77.5°	2729.8	819.7	588.2	681.5	774.9	1122.2	1331.3	1025.1	883.2	842.1	823.4
80°	974.7	509.7	414.5	470.5	522.8	965.3	1163.2	847.7	685.2	677.8	685.2
82.5°	451.8	328.6	278.2	308.1	309.9	644.2	886.9	633.0	520.9	791.7	668.4
85°	194.2	164.3	156.8	153.1	141.9	287.5	498.5	339.8	530.3	237.1	218.5
87.5°	57.9	65.4	57.9	42.9	31.7	31.7	50.4	18.7	13.1	9.3	9.3
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)