

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: P455225

Luminaire Tested: **GALN-SA6B-827-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24946 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

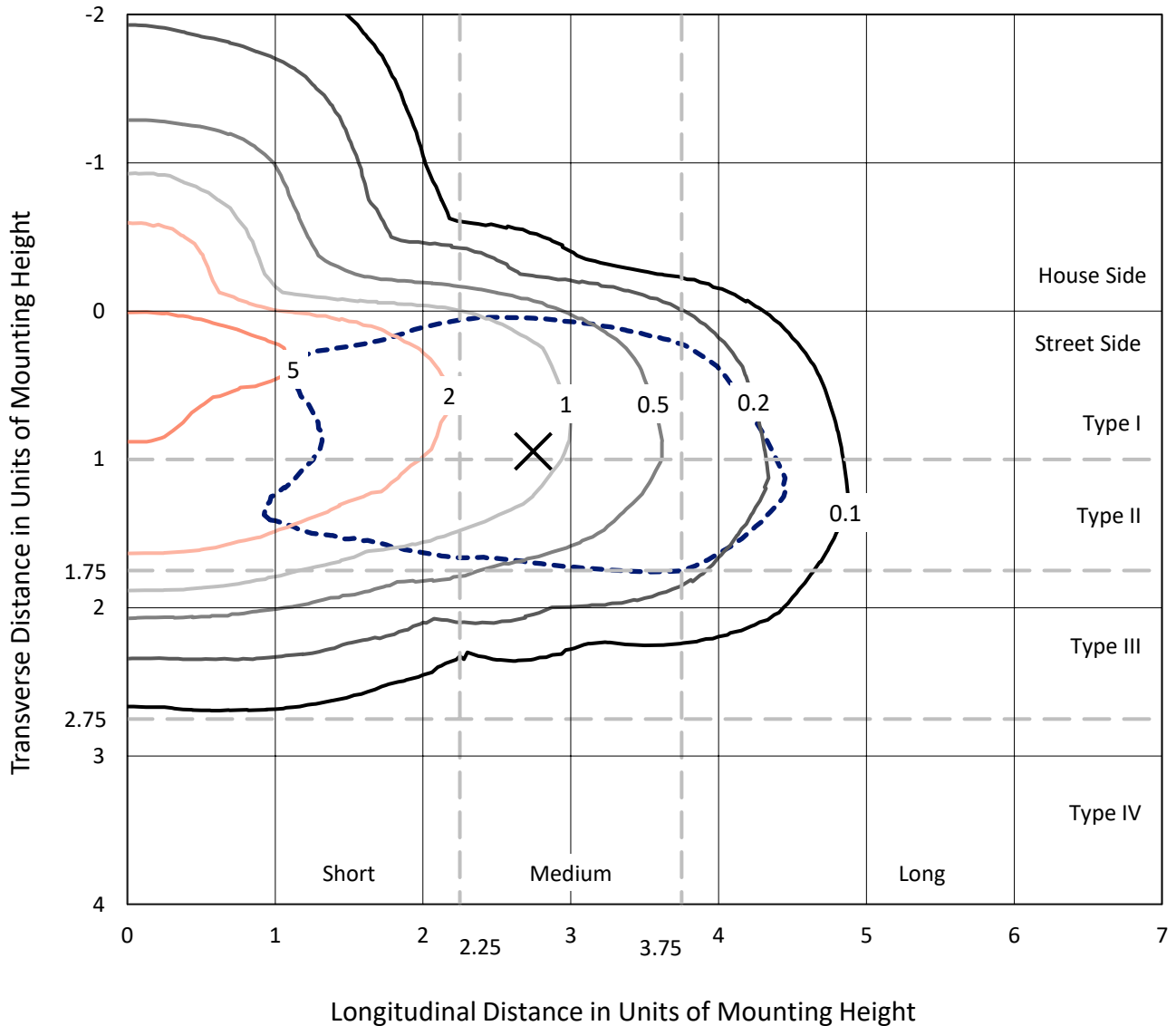
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

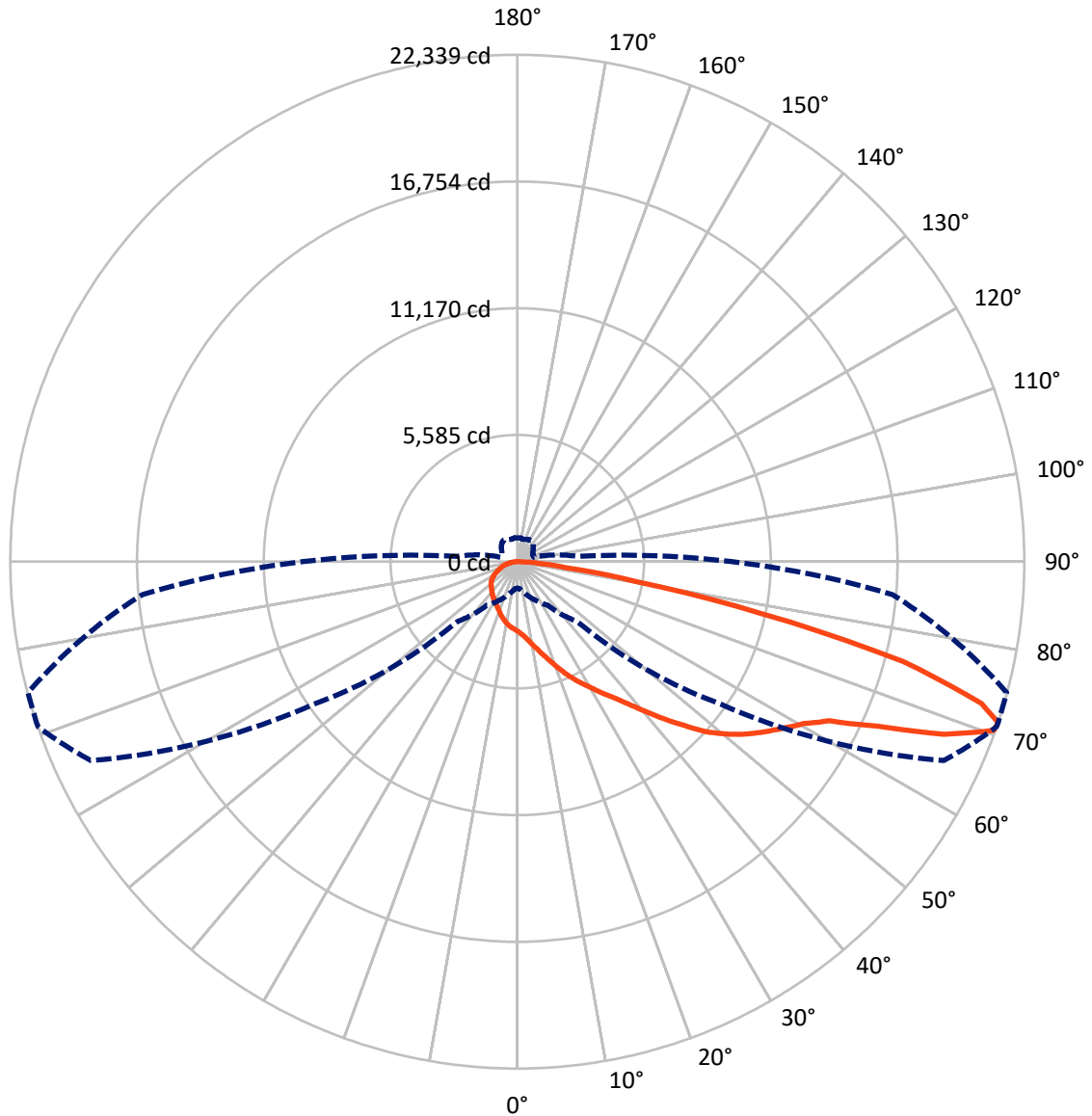
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4486.5	0.0	4486.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	20459.5	0.0	20459.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	24946.0	0.0	24946.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.4	1.2
10°-20°	998.7	4.0
20°-30°	1745.4	7.0
30°-40°	2596.0	10.4
40°-50°	3824.9	15.3
50°-60°	5355.0	21.5
60°-70°	5989.3	24.0
70°-80°	3658.5	14.7
80°-90°	470.6	1.9
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°	24946.0	100.0
0°-180°	24946.0	100.0

Coefficient of Utilization



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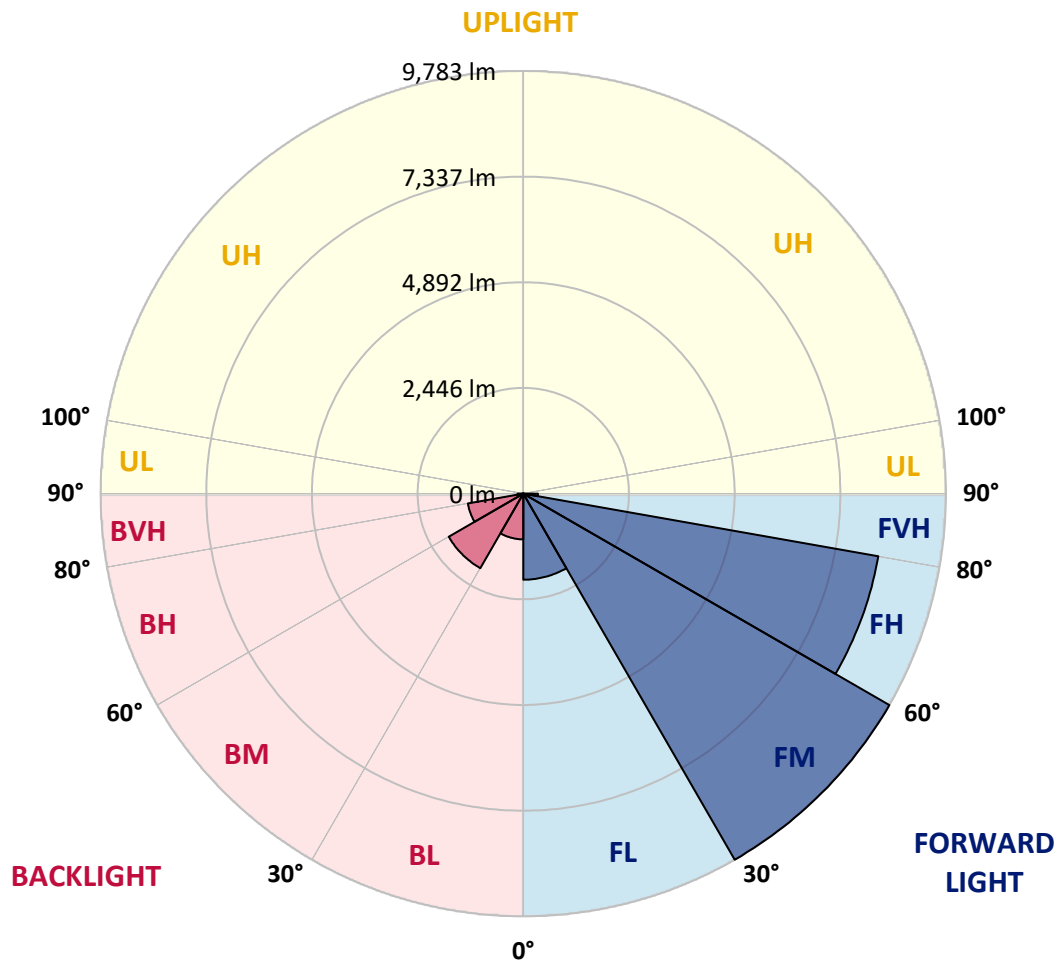
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1993.2	8.0			
FM	(30°-60°)	9783.3	39.2			
FH	(60°-80°)	8344.4	33.4			G4/12000
FVH	(80°-90°)	338.6	1.4			G3/500
BL	(0°-30°)	1058.3	4.2	B3/2500		
BM	(30°-60°)	1992.6	8.0	B2/2500		
BH	(60°-80°)	1303.5	5.2	B3/2500		G3/2500
BVH	(80°-90°)	132.0	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3061.6	3061.6	3061.6	3061.6	3061.6	3061.6	3061.6	3061.6	3061.6	3061.6	3061.6
2.5°	3398.9	3382.5	3383.8	3360.5	3330.4	3297.5	3250.8	3209.7	3176.8	3157.6	3101.4
5°	3766.4	3749.9	3729.3	3678.6	3656.7	3575.8	3473.0	3379.7	3308.4	3268.7	3156.2
7.5°	4063.9	4059.8	4054.3	4025.5	3969.3	3856.9	3769.1	3607.3	3501.7	3426.3	3234.4
10°	4247.6	4254.5	4258.6	4264.1	4240.8	4181.8	4061.1	3856.9	3722.5	3626.5	3335.8
12.5°	4340.9	4347.7	4371.0	4421.7	4453.3	4446.4	4347.7	4147.5	3962.4	3836.3	3444.2
15°	4398.4	4409.4	4450.5	4517.7	4623.3	4690.5	4642.5	4457.4	4254.5	4105.0	3573.0
17.5°	4461.5	4473.8	4519.1	4615.1	4753.5	4898.9	4951.0	4791.9	4571.2	4393.0	3717.0
20°	4497.2	4513.6	4578.0	4704.2	4866.0	5077.1	5249.9	5166.2	4924.9	4727.5	3882.9
22.5°	4554.7	4568.5	4623.3	4757.7	4951.0	5215.6	5548.8	5531.0	5318.4	5063.4	4065.3
25°	4711.0	4733.0	4760.4	4841.3	5027.8	5356.8	5796.9	5920.3	5699.6	5414.4	4232.5
27.5°	5005.8	5023.6	5022.3	5033.2	5138.8	5478.8	6012.2	6305.6	6078.0	5769.5	4394.3
30°	5341.7	5348.6	5354.1	5329.4	5352.7	5603.6	6209.6	6686.8	6459.2	6134.2	4535.5
32.5°	5750.3	5764.0	5717.4	5654.3	5635.2	5788.7	6372.8	7067.9	6910.3	6504.4	4675.4
35°	6232.9	6268.6	6174.0	6062.9	5984.8	6054.7	6592.2	7457.3	7372.3	6977.4	4860.5
37.5°	6784.1	6828.0	6740.2	6522.2	6411.2	6430.4	6878.7	7938.6	7956.4	7516.3	5136.1
40°	7235.2	7292.8	7295.5	6987.0	6818.4	6840.3	7242.1	8456.8	8661.1	8182.6	5461.0
42.5°	7532.7	7588.9	7647.9	7466.9	7290.1	7414.8	7665.7	9019.0	9453.6	8991.6	5914.9
45°	7859.1	7909.8	7942.7	7860.4	7761.7	8085.3	8177.1	9616.8	10298.2	9895.1	6411.2
47.5°	8237.5	8293.7	8325.2	8247.1	8210.0	8673.5	8728.3	10174.8	11200.4	10772.6	6959.6
50°	8742.0	8784.5	8768.1	8718.7	8710.5	9124.6	9257.6	10697.2	11944.9	11717.3	7528.6
52.5°	9370.0	9420.7	9438.5	9368.6	9337.1	9446.8	9684.0	11173.0	12622.2	12529.0	8136.0
55°	9749.8	9830.7	10102.1	10211.8	10287.2	9863.6	10143.3	11698.1	13229.6	13384.5	8788.6
57.5°	9263.0	9367.2	9974.6	10523.1	11231.9	10905.6	10794.5	12246.5	13837.0	14214.0	9570.2
60°	8075.7	8099.0	8881.9	9892.4	11318.3	12245.1	12153.3	13118.5	14495.1	15050.4	10599.8
62.5°	5602.2	5651.6	6577.1	8189.5	10251.6	12727.8	14464.9	14624.0	15438.4	16302.2	12109.4
65°	2888.9	2824.4	3667.6	5147.0	7728.8	11581.5	16337.8	17392.2	17484.1	18260.1	14234.6
67.5°	1778.3	1807.1	2202.0	3005.4	4569.8	8417.1	16141.8	20774.7	20290.7	20663.6	16207.6
70°	1335.4	1371.1	1642.6	2056.6	2786.0	4812.5	12981.4	21594.6	22270.5	22174.5	16808.1
71°	1161.3	1198.3	1480.8	1871.5	2340.4	3714.3	10937.1	20736.3	22339.1	22322.6	16581.9
72.5°	989.9	1013.2	1234.0	1585.0	1973.0	2603.7	8216.9	18597.4	21386.2	21933.2	15774.3
75°	777.4	795.2	893.9	1209.3	1553.4	1598.7	4409.4	13942.5	17565.0	18607.0	13132.2
77.5°	633.4	645.8	696.5	898.1	1198.3	1132.5	2313.0	9075.2	11004.3	12053.2	7735.7
80°	503.2	516.9	547.1	608.8	898.1	807.6	1103.7	4598.6	5315.7	5304.7	3087.7
82.5°	390.8	394.9	430.5	447.0	614.2	573.1	597.8	1946.9	2156.7	2228.0	1114.7
85°	246.8	259.1	381.2	342.8	367.5	335.9	294.8	773.3	952.9	939.2	445.6
87.5°	75.4	79.5	128.9	145.3	163.2	146.7	108.3	227.6	278.3	301.6	111.1
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°	3061.6	3061.6	3061.6	3061.6	3061.6	3061.6	3061.6	3061.6	3061.6	3061.6	3061.6
2.5°	3079.5	3064.4	3010.9	2967.0	2925.9	2880.6	2842.3	2831.3	2821.7	2817.6	2816.2
5°	3108.2	3063.0	2957.4	2871.0	2802.5	2739.4	2699.7	2681.8	2664.0	2664.0	2669.5
7.5°	3149.4	3067.1	2904.0	2775.1	2688.7	2629.7	2600.9	2598.2	2602.3	2606.4	2607.8
10°	3194.6	3064.4	2825.8	2665.4	2588.6	2561.2	2562.6	2585.9	2607.8	2624.3	2627.0
12.5°	3238.5	3047.9	2733.9	2562.6	2513.2	2518.7	2557.1	2609.2	2651.7	2675.0	2676.4
15°	3287.9	3021.9	2622.9	2465.2	2448.8	2491.3	2562.6	2642.1	2706.5	2744.9	2749.0
17.5°	3329.0	2978.0	2506.3	2370.6	2391.2	2469.3	2568.0	2670.9	2749.0	2797.0	2805.2
20°	3375.6	2921.8	2385.7	2280.1	2339.1	2444.6	2557.1	2668.1	2749.0	2795.6	2806.6
22.5°	3412.6	2842.3	2270.5	2206.1	2292.5	2414.5	2520.1	2609.2	2675.0	2699.7	2716.1
25°	3427.7	2742.2	2162.2	2145.7	2255.4	2365.1	2436.4	2487.1	2507.7	2505.0	2511.8
27.5°	3419.5	2627.0	2069.0	2097.8	2208.8	2288.3	2324.0	2319.9	2282.9	2248.6	2265.0
30°	3385.2	2489.9	1990.8	2048.4	2148.5	2192.4	2186.9	2133.4	2063.5	1999.0	2003.2
32.5°	3323.5	2341.8	1918.1	1992.2	2063.5	2082.7	2045.7	1975.7	1875.6	1792.0	1779.7
35°	3271.4	2200.6	1853.7	1927.7	1978.5	1968.9	1933.2	1842.7	1752.2	1678.2	1665.9
37.5°	3263.2	2079.9	1792.0	1855.1	1883.9	1870.2	1826.3	1749.5	1716.6	1660.4	1653.5
40°	3307.1	1994.9	1728.9	1778.3	1792.0	1781.0	1733.0	1689.2	1719.3	1705.6	1705.6
42.5°	3426.3	1949.7	1672.7	1701.5	1712.5	1720.7	1686.4	1649.4	1686.4	1623.4	1602.8
45°	3615.5	1951.1	1622.0	1626.1	1659.0	1687.8	1664.5	1609.7	1590.5	1464.3	1439.6
47.5°	3893.9	1997.7	1580.9	1554.8	1613.8	1661.8	1628.8	1549.3	1464.3	1380.7	1365.6
50°	4218.8	2081.3	1543.8	1480.8	1553.4	1628.8	1604.2	1510.9	1423.2	1372.5	1362.9
52.5°	4579.4	2186.9	1498.6	1398.5	1479.4	1613.8	1609.7	1505.4	1384.8	1350.5	1342.3
55°	5025.0	2291.1	1442.4	1302.5	1413.6	1601.4	1594.6	1460.2	1376.6	1351.9	1349.1
57.5°	5543.3	2441.9	1361.5	1205.2	1338.2	1550.7	1535.6	1432.8	1349.1	1331.3	1330.0
60°	6378.3	2676.4	1246.3	1116.1	1261.4	1461.6	1480.8	1386.2	1305.3	1301.2	1299.8
62.5°	7476.5	3005.4	1127.0	1024.2	1172.3	1346.4	1401.2	1323.1	1258.7	1279.2	1282.0
65°	8992.9	3282.4	1003.6	946.0	1073.6	1235.3	1325.8	1264.1	1206.6	1246.3	1246.3
67.5°	9981.5	3287.9	891.2	865.2	973.5	1142.1	1246.3	1194.2	1139.4	1206.6	1209.3
70°	9775.8	2880.6	798.0	780.1	876.1	1042.0	1158.6	1117.4	1054.4	1114.7	1092.8
71°	9444.0	2654.4	761.0	747.2	837.7	994.0	1117.4	1083.2	1020.1	1059.8	1047.5
72.5°	8914.8	2304.8	700.6	703.4	780.1	933.7	1059.8	1024.2	961.1	983.1	979.0
75°	7535.5	2012.8	599.2	611.5	670.5	830.9	944.7	917.3	852.8	852.8	848.7
77.5°	4711.0	1406.7	497.7	504.6	569.0	711.6	811.7	788.4	726.7	706.1	700.6
80°	1757.7	726.7	389.4	397.6	437.4	560.8	671.8	649.9	586.8	563.5	541.6
82.5°	665.0	364.7	286.6	279.7	322.2	427.8	526.5	500.4	451.1	394.9	378.4
85°	250.9	181.0	175.5	170.0	189.2	253.7	326.3	320.8	268.7	229.0	224.9
87.5°	65.8	59.0	68.6	50.7	53.5	48.0	49.4	20.6	9.6	4.1	2.7
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)