

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: P455776

Luminaire Tested: **GALN-SA7A-727-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455776
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-SA7A-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26790 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

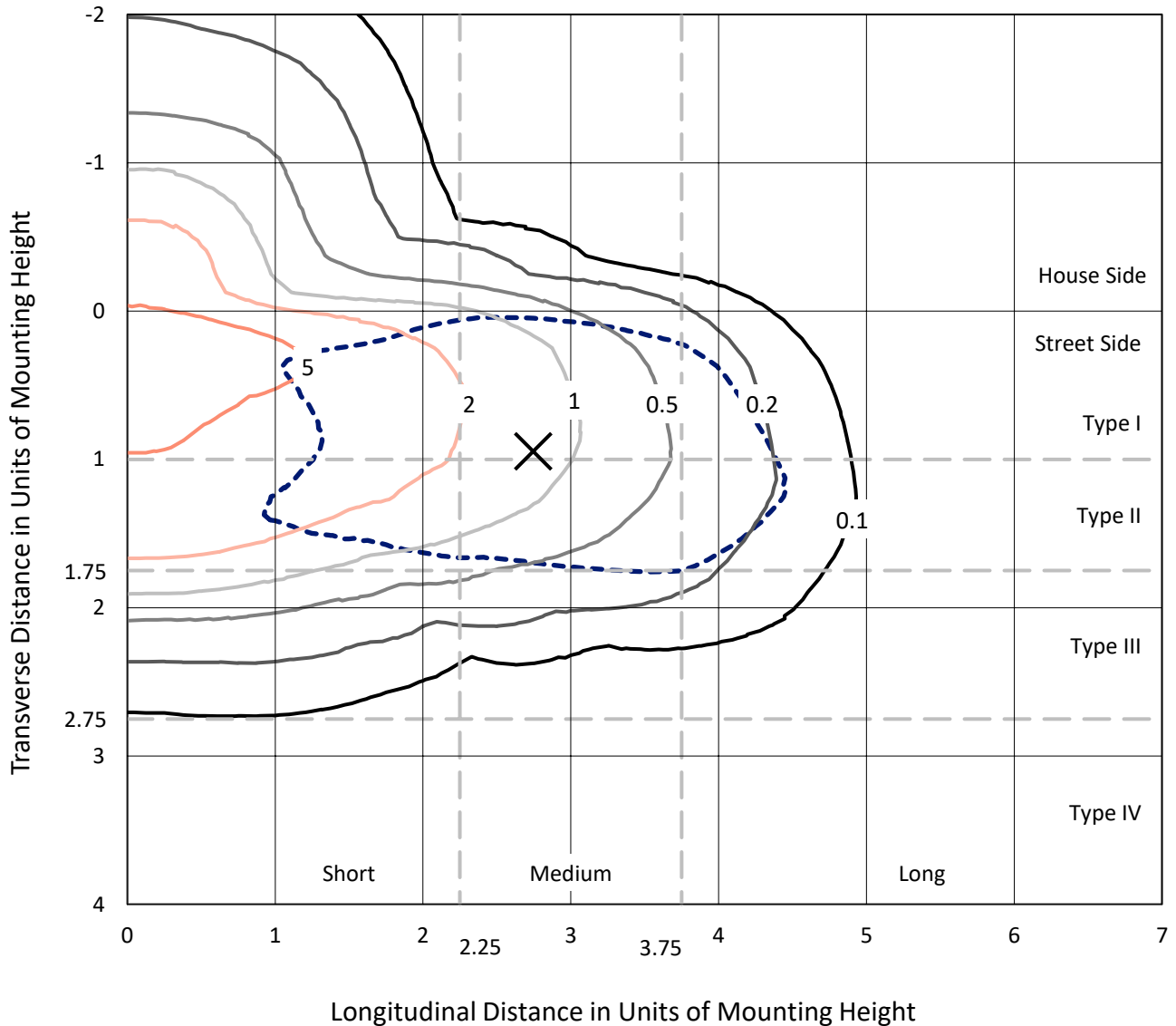
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

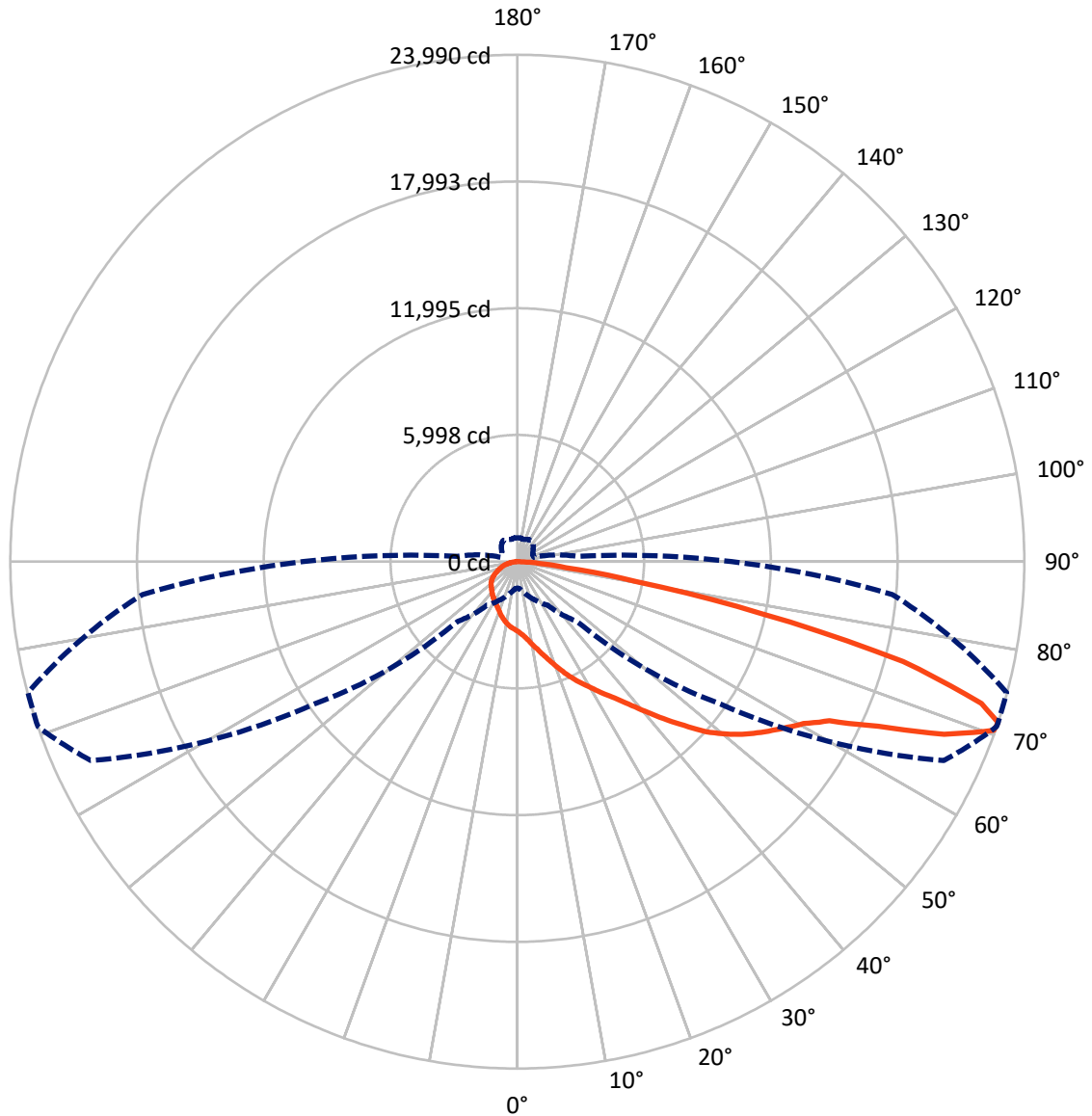
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	4818.1	0.0	4818.1
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	21971.9	0.0	21971.9
	% Fixture	82.0	0.0	82.0
Total	Lumens	26790.0	0.0	26790.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.1	1.2
10°-20°	1072.6	4.0
20°-30°	1874.4	7.0
30°-40°	2787.9	10.4
40°-50°	4107.7	15.3
50°-60°	5750.8	21.5
60°-70°	6432.1	24.0
70°-80°	3929.0	14.7
80°-90°	505.4	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°	26790.0	100.0
0°-180°	26790.0	100.0

Coefficient of Utilization



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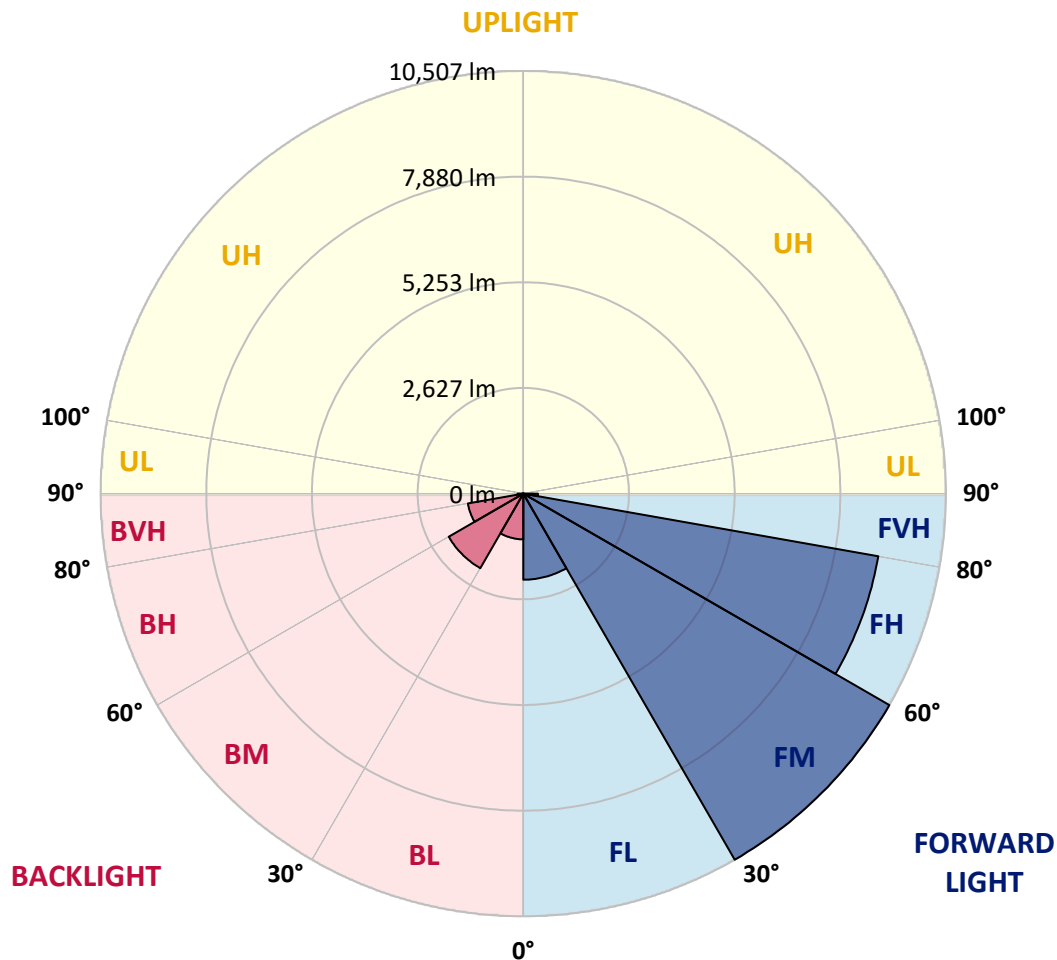
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2140.5	8.0			
FM	(30°-60°)	10506.5	39.2			
FH	(60°-80°)	8961.2	33.4			G4/12000
FVH	(80°-90°)	363.7	1.4			G3/500
BL	(0°-30°)	1136.6	4.2	B3/2500		
BM	(30°-60°)	2139.9	8.0	B2/2500		
BH	(60°-80°)	1399.9	5.2	B3/2500		G3/2500
BVH	(80°-90°)	141.7	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°	3287.9	3287.9	3287.9	3287.9	3287.9	3287.9	3287.9	3287.9	3287.9	3287.9	3287.9
2.5°	3650.2	3632.5	3634.0	3608.9	3576.5	3541.2	3491.1	3447.0	3411.6	3391.0	3330.6
5°	4044.8	4027.1	4005.0	3950.5	3927.0	3840.1	3729.7	3629.5	3553.0	3510.3	3389.5
7.5°	4364.3	4359.9	4354.0	4323.1	4262.7	4142.0	4047.7	3874.0	3760.6	3679.6	3473.5
10°	4561.6	4569.0	4573.4	4579.3	4554.2	4490.9	4361.3	4142.0	3997.7	3894.6	3582.4
12.5°	4661.7	4669.1	4694.1	4748.6	4782.5	4775.1	4669.1	4454.1	4255.3	4119.9	3698.8
15°	4723.6	4735.3	4779.5	4851.7	4965.0	5037.2	4985.7	4786.9	4569.0	4408.5	3837.2
17.5°	4791.3	4804.6	4853.1	4956.2	5104.9	5261.0	5317.0	5146.2	4909.1	4717.7	3991.8
20°	4829.6	4847.3	4916.5	5051.9	5225.7	5452.4	5637.9	5548.1	5289.0	5077.0	4169.9
22.5°	4891.4	4906.1	4965.0	5109.3	5317.0	5601.1	5958.9	5939.8	5711.6	5437.7	4365.8
25°	5059.3	5082.8	5112.3	5199.2	5399.4	5752.8	6225.4	6358.0	6120.9	5814.6	4545.4
27.5°	5375.9	5395.0	5393.5	5405.3	5518.7	5883.8	6456.6	6771.7	6527.3	6196.0	4719.1
30°	5736.6	5744.0	5749.9	5723.3	5748.4	6017.8	6668.7	7181.1	6936.6	6587.7	4870.8
32.5°	6175.4	6190.1	6140.0	6072.3	6051.7	6216.6	6843.9	7590.4	7421.1	6985.2	5021.0
35°	6693.7	6732.0	6630.4	6511.1	6427.2	6502.3	7079.5	8008.6	7917.3	7493.2	5219.8
37.5°	7285.6	7332.7	7238.5	7004.4	6885.1	6905.7	7387.2	8525.4	8544.5	8071.9	5515.7
40°	7770.0	7831.9	7834.8	7503.5	7322.4	7346.0	7777.4	9082.0	9301.4	8787.5	5864.7
42.5°	8089.5	8149.9	8213.2	8018.9	7828.9	7962.9	8232.4	9685.7	10152.4	9656.2	6352.1
45°	8440.0	8494.5	8529.8	8441.5	8335.4	8682.9	8781.6	10327.6	11059.4	10626.6	6885.1
47.5°	8846.4	8906.8	8940.6	8856.7	8816.9	9314.6	9373.5	10926.9	12028.3	11568.9	7474.1
50°	9388.2	9433.9	9416.2	9363.2	9354.4	9799.0	9941.9	11487.9	12827.8	12583.4	8085.1
52.5°	10062.6	10117.1	10136.2	10061.1	10027.3	10145.1	10399.8	11998.9	13555.2	13455.1	8737.4
55°	10470.5	10557.3	10848.9	10966.7	11047.7	10592.7	10893.1	12562.8	14207.5	14373.9	9438.3
57.5°	9947.8	10059.7	10712.0	11300.9	12062.2	11711.7	11592.5	13151.8	14859.8	15264.7	10277.6
60°	8672.6	8697.7	9538.4	10623.6	12154.9	13150.3	13051.7	14088.2	15566.6	16162.9	11383.4
62.5°	6016.4	6069.4	7063.3	8794.8	11009.4	13668.6	15534.2	15705.0	16579.6	17507.2	13004.5
65°	3102.4	3033.2	3938.8	5527.5	8300.1	12437.6	17545.5	18677.8	18776.5	19609.9	15286.8
67.5°	1909.7	1940.7	2364.7	3227.6	4907.6	9039.3	17335.0	22310.3	21790.5	22191.0	17405.6
70°	1434.2	1472.4	1764.0	2208.7	2992.0	5168.2	13941.0	23190.8	23916.7	23813.7	18050.6
71°	1247.2	1286.9	1590.2	2009.9	2513.4	3988.8	11745.6	22269.1	23990.4	23972.7	17807.6
72.5°	1063.1	1088.1	1325.2	1702.1	2118.8	2796.2	8824.3	19972.1	22967.0	23554.5	16940.3
75°	834.9	854.0	960.0	1298.7	1668.3	1716.9	4735.3	14973.2	18863.3	19982.4	14103.0
77.5°	680.3	693.5	748.0	964.4	1286.9	1216.2	2484.0	9746.0	11817.8	12944.2	8307.5
80°	540.4	555.1	587.5	653.8	964.4	867.3	1185.3	4938.5	5708.6	5696.8	3315.9
82.5°	419.6	424.1	462.3	480.0	659.7	615.5	642.0	2090.9	2316.1	2392.7	1197.1
85°	265.0	278.3	409.3	368.1	394.6	360.7	316.6	830.5	1023.3	1008.6	478.5
87.5°	81.0	85.4	138.4	156.1	175.2	157.6	116.3	244.4	298.9	323.9	119.3
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°	3287.9	3287.9	3287.9	3287.9	3287.9	3287.9	3287.9	3287.9	3287.9	3287.9	3287.9
2.5°	3307.1	3290.9	3233.5	3186.3	3142.2	3093.6	3052.4	3040.6	3030.3	3025.9	3024.4
5°	3338.0	3289.4	3176.0	3083.3	3009.7	2941.9	2899.2	2880.1	2860.9	2860.9	2866.8
7.5°	3382.2	3293.8	3118.6	2980.2	2887.4	2824.1	2793.2	2790.3	2794.7	2799.1	2800.6
10°	3430.8	3290.9	3034.7	2862.4	2780.0	2750.5	2752.0	2777.0	2800.6	2818.2	2821.2
12.5°	3477.9	3273.2	2936.0	2752.0	2699.0	2704.9	2746.1	2802.0	2847.7	2872.7	2874.2
15°	3530.9	3245.2	2816.8	2647.4	2629.8	2675.4	2752.0	2837.4	2906.6	2947.8	2952.2
17.5°	3575.1	3198.1	2691.6	2545.8	2567.9	2651.9	2757.9	2868.3	2952.2	3003.8	3012.6
20°	3625.1	3137.8	2562.0	2448.7	2512.0	2625.3	2746.1	2865.4	2952.2	3002.3	3014.1
22.5°	3664.9	3052.4	2438.3	2369.1	2461.9	2593.0	2706.3	2802.0	2872.7	2899.2	2916.9
25°	3681.1	2944.9	2322.0	2304.4	2422.2	2539.9	2616.5	2671.0	2693.1	2690.1	2697.5
27.5°	3672.2	2821.2	2221.9	2252.8	2372.1	2457.5	2495.8	2491.4	2451.6	2414.8	2432.5
30°	3635.4	2673.9	2138.0	2199.8	2307.3	2354.4	2348.5	2291.1	2216.0	2146.8	2151.2
32.5°	3569.2	2514.9	2059.9	2139.4	2216.0	2236.6	2196.9	2121.8	2014.3	1924.5	1911.2
35°	3513.2	2363.3	1990.7	2070.2	2124.7	2114.4	2076.1	1979.0	1881.8	1802.3	1789.0
37.5°	3504.4	2233.7	1924.5	1992.2	2023.1	2008.4	1961.3	1878.8	1843.5	1783.1	1775.8
40°	3551.5	2142.4	1856.7	1909.7	1924.5	1912.7	1861.2	1814.0	1846.4	1831.7	1831.7
42.5°	3679.6	2093.8	1796.4	1827.3	1839.1	1847.9	1811.1	1771.3	1811.1	1743.4	1721.3
45°	3882.8	2095.3	1741.9	1746.3	1781.6	1812.6	1787.5	1728.6	1708.0	1572.6	1546.1
47.5°	4181.7	2145.3	1697.7	1669.7	1733.1	1784.6	1749.3	1663.8	1572.6	1482.7	1466.5
50°	4530.7	2235.2	1658.0	1590.2	1668.3	1749.3	1722.7	1622.6	1528.4	1473.9	1463.6
52.5°	4917.9	2348.5	1609.4	1501.9	1588.8	1733.1	1728.6	1616.7	1487.2	1450.3	1441.5
55°	5396.5	2460.4	1549.0	1398.8	1518.1	1719.8	1712.4	1568.1	1478.3	1451.8	1448.9
57.5°	5953.0	2622.4	1462.1	1294.3	1437.1	1665.3	1649.1	1538.7	1448.9	1429.7	1428.3
60°	6849.8	2874.2	1338.4	1198.6	1354.6	1569.6	1590.2	1488.6	1401.8	1397.3	1395.9
62.5°	8029.2	3227.6	1210.3	1099.9	1258.9	1445.9	1504.8	1420.9	1351.7	1373.8	1376.7
65°	9657.7	3525.0	1077.8	1016.0	1152.9	1326.7	1423.8	1357.6	1295.7	1338.4	1338.4
67.5°	10719.3	3530.9	957.1	929.1	1045.4	1226.5	1338.4	1282.5	1223.6	1295.7	1298.7
70°	10498.5	3093.6	857.0	837.8	940.9	1119.0	1244.2	1200.0	1132.3	1197.1	1173.5
71°	10142.1	2850.6	817.2	802.5	899.7	1067.5	1200.0	1163.2	1095.5	1138.2	1124.9
72.5°	9573.8	2475.2	752.4	755.4	837.8	1002.7	1138.2	1099.9	1032.2	1055.7	1051.3
75°	8092.5	2161.5	643.5	656.7	720.0	892.3	1014.5	985.1	915.9	915.9	911.4
77.5°	5059.3	1510.7	534.5	541.9	611.1	764.2	871.7	846.6	780.4	758.3	752.4
80°	1887.7	780.4	418.2	427.0	469.7	602.2	721.5	697.9	630.2	605.2	581.6
82.5°	714.1	391.7	307.7	300.4	346.0	459.4	565.4	537.4	484.4	424.1	406.4
85°	269.5	194.4	188.5	182.6	203.2	272.4	350.4	344.5	288.6	245.9	241.5
87.5°	70.7	63.3	73.6	54.5	57.4	51.5	53.0	22.1	10.3	4.4	2.9
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)