

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: P648072

Luminaire Tested: **GALN-SA7A-835-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648072  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-835-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25522.7 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

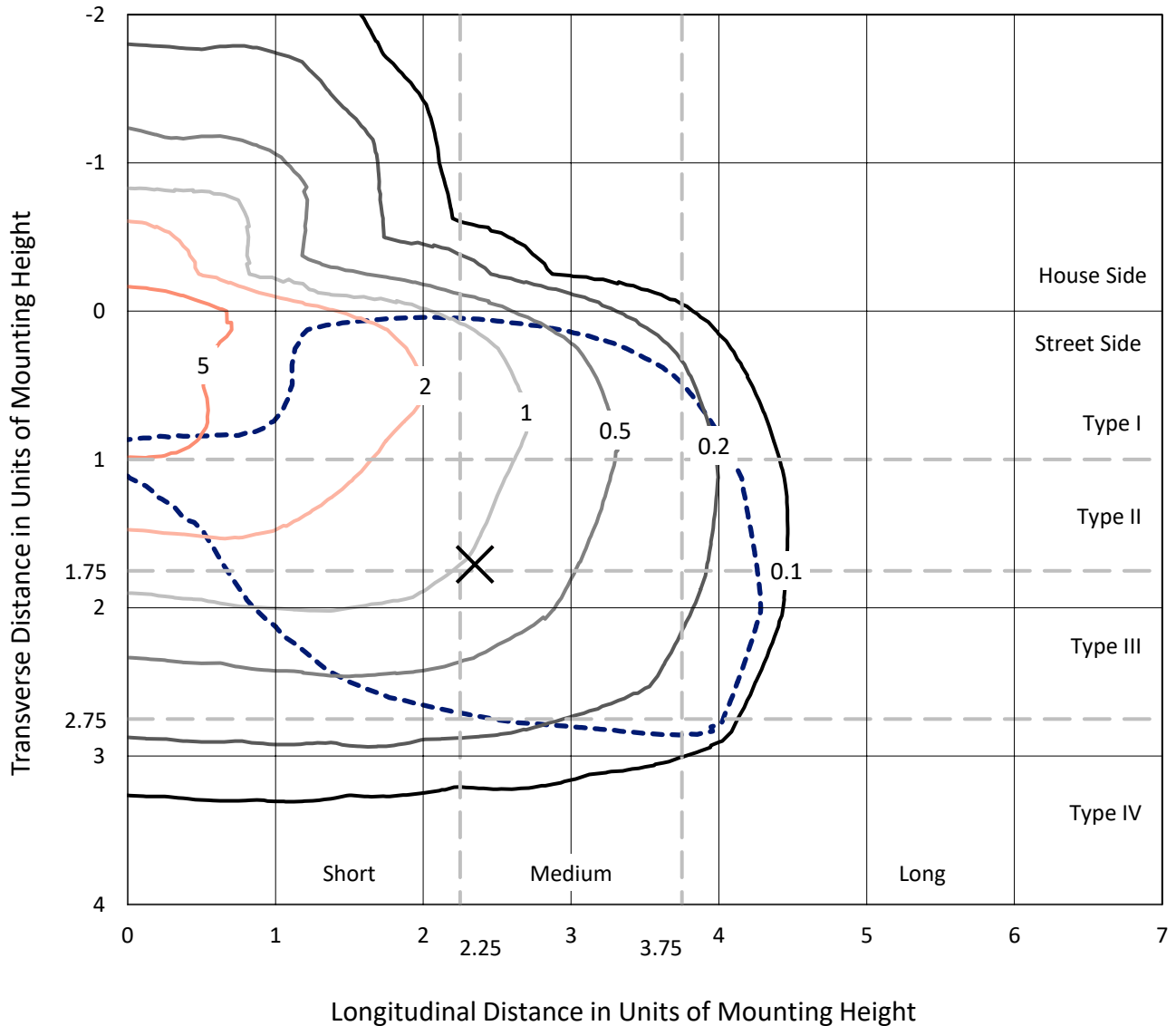
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

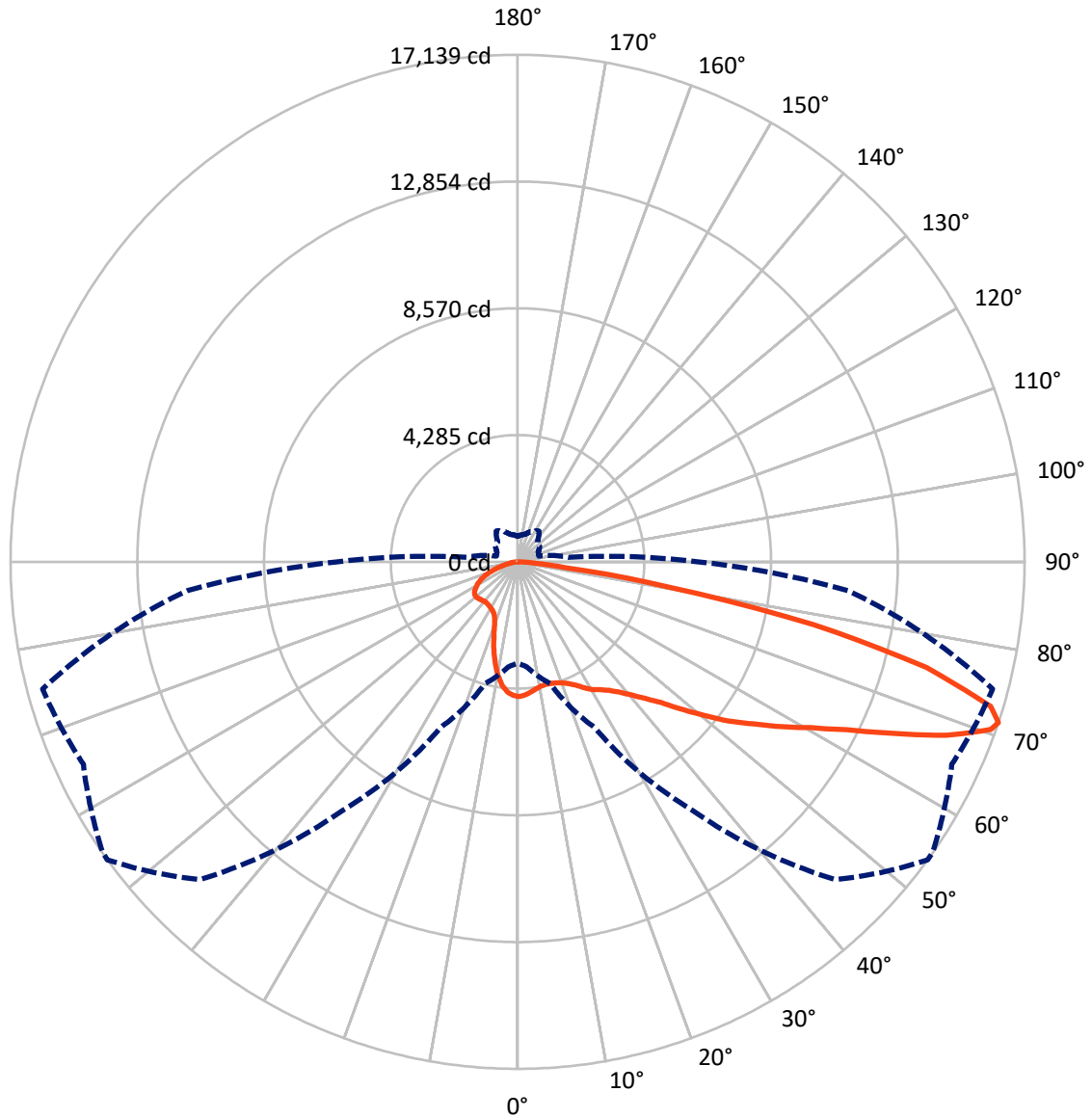
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4608.0	0.0	4608.0
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	20914.7	0.0	20914.7
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	25522.7	0.0	25522.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.8	1.6
10°-20°	1071.5	4.2
20°-30°	1784.1	7.0
30°-40°	2638.1	10.3
40°-50°	3715.9	14.6
50°-60°	4975.7	19.5
60°-70°	6271.5	24.6
70°-80°	4283.4	16.8
80°-90°	376.7	1.5
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°	25522.7	100.0
0°-180°	25522.7	100.0

**Coefficient of Utilization**

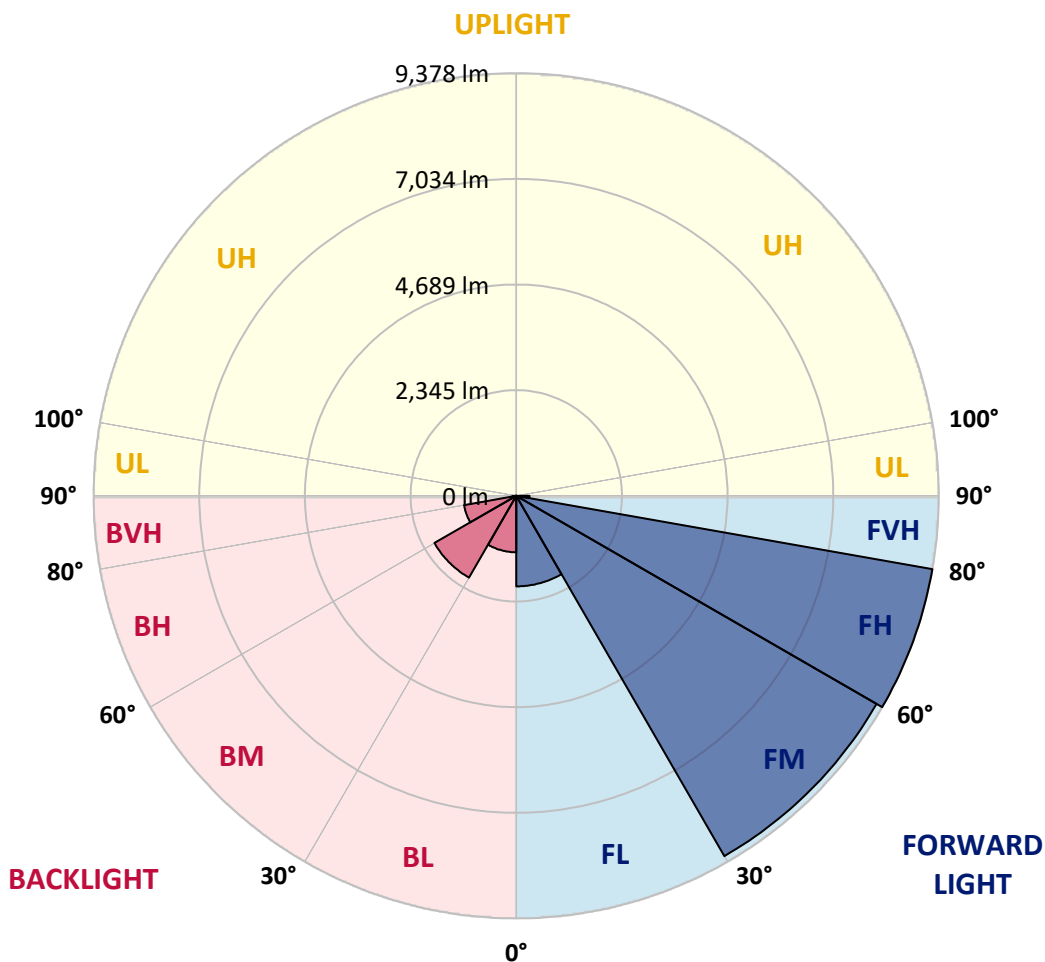


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2009.1	7.9			
FM (30°-60°)	9233.2	36.2			
FH (60°-80°)	9378.0	36.7			G4/12000
FVH (80°-90°)	294.4	1.2			G3/500
BL (0°-30°)	1252.4	4.9	B3/2500		
BM (30°-60°)	2096.5	8.2	B2/2500		
BH (60°-80°)	1176.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	82.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4553.6	4553.6	4553.6	4553.6	4553.6	4553.6	4553.6	4553.6	4553.6	4553.6	4553.6
2.5°	4399.2	4419.9	4425.4	4439.2	4468.1	4491.6	4515.0	4512.3	4545.3	4559.2	4571.5
5°	4203.5	4208.9	4229.6	4257.2	4308.2	4373.1	4436.4	4437.8	4519.2	4583.9	4615.6
7.5°	4060.1	4078.0	4091.8	4120.7	4174.5	4244.8	4345.4	4353.7	4498.5	4626.7	4694.2
10°	3966.3	3987.0	4002.1	4038.0	4091.8	4170.3	4279.3	4294.4	4483.3	4694.2	4812.8
12.5°	3880.9	3901.5	3915.3	3962.2	4032.5	4129.0	4251.7	4269.6	4488.9	4772.9	4942.4
15°	3933.2	3949.8	3944.3	3958.1	4004.9	4115.2	4262.7	4280.7	4509.5	4848.6	5070.6
17.5°	4166.3	4180.0	4134.6	4082.1	4060.1	4141.4	4297.2	4316.5	4550.9	4927.3	5201.5
20°	4509.5	4546.7	4447.4	4330.3	4224.1	4235.2	4368.9	4389.6	4608.7	5005.8	5335.3
22.5°	4956.2	4983.7	4862.4	4669.4	4473.7	4373.1	4476.4	4488.9	4695.7	5107.8	5481.5
25°	5481.5	5498.0	5329.8	5081.7	4799.0	4608.7	4623.9	4646.0	4839.0	5223.6	5611.1
27.5°	5991.5	6043.9	5849.6	5546.2	5174.0	4856.9	4826.6	4840.3	4994.8	5288.5	5700.6
30°	6596.8	6592.6	6387.2	6035.7	5558.7	5127.2	5018.2	5015.4	5078.9	5320.2	5765.5
32.5°	7079.3	7135.8	6934.5	6551.3	5998.4	5407.0	5150.6	5145.1	5143.7	5375.3	5861.9
35°	7628.0	7636.2	7451.5	7065.5	6474.1	5758.6	5335.3	5307.7	5276.0	5493.8	5992.9
37.5°	8118.8	8157.4	7987.8	7554.9	6941.5	6123.9	5589.0	5571.0	5474.6	5699.3	6202.5
40°	8502.0	8530.9	8429.0	8016.7	7401.9	6518.2	5911.6	5878.5	5761.3	6035.7	6482.3
42.5°	8627.5	8686.8	8726.8	8524.1	7931.2	6985.5	6308.6	6267.3	6177.6	6545.7	6804.9
45°	8637.1	8730.8	8941.8	8951.5	8463.4	7545.2	6771.9	6742.9	6736.0	7199.2	7258.5
47.5°	8564.1	8659.2	9013.5	9205.1	8937.7	8110.5	7440.5	7395.0	7399.1	8007.1	7767.2
50°	8387.6	8500.6	8930.7	9367.8	9308.5	8697.8	8146.3	8131.1	8216.6	8929.4	8295.3
52.5°	8055.3	8191.8	8845.3	9469.8	9584.2	9203.8	8948.7	8906.0	9122.4	9930.3	8872.9
55°	7135.8	7341.3	8532.4	9526.4	9846.2	9687.7	9671.1	9748.3	10035.1	11022.1	9508.4
57.5°	6656.0	6810.5	7852.7	9536.0	10177.0	10250.1	10514.8	10534.1	11035.9	12181.6	10226.7
60°	6394.1	6530.6	7480.5	9472.6	10638.9	10946.3	11377.9	11446.8	12013.4	13437.5	10971.2
62.5°	6165.3	6282.4	7257.2	9253.4	11160.0	11979.0	12495.9	12529.0	13123.2	14824.5	11705.9
65°	5626.2	5759.9	6807.7	9034.2	11609.5	13269.3	13979.4	13940.8	14304.7	16021.1	12166.4
67.5°	4899.6	5069.2	5968.1	8277.3	11831.4	14679.7	15650.2	15602.0	15471.0	16805.5	12298.8
70°	3971.8	4062.8	4894.1	6969.0	10944.9	15420.0	16969.6	16918.6	16193.4	16908.9	11672.9
71°	3417.6	3559.6	4261.3	6190.1	10207.4	15193.9	17139.2	17125.4	16194.8	16623.6	11201.4
72.5°	2667.7	2754.5	3374.9	4796.3	8675.7	13909.1	16720.0	16772.4	15843.2	15830.9	10229.4
75°	1687.4	1726.0	2117.5	2823.4	4760.4	9850.3	14273.0	14415.0	14067.5	12957.8	7607.3
77.5°	980.2	1029.8	1268.3	1664.0	2056.9	5346.3	10212.9	10367.3	9774.5	7134.4	3114.3
80°	570.7	625.9	835.5	966.5	944.4	1983.9	5200.2	5463.5	4232.4	1801.8	874.1
82.5°	317.1	354.3	587.3	588.7	503.2	647.9	1636.5	1712.3	1207.7	726.5	357.0
85°	230.2	260.6	379.1	343.3	241.2	278.5	569.4	597.0	488.0	306.1	115.8
87.5°	81.4	115.8	208.2	165.4	66.2	57.9	164.0	133.7	124.1	85.5	26.2
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°	4553.6	4553.6	4553.6	4553.6	4553.6	4553.6	4553.6	4553.6	4553.6	4553.6	4553.6
2.5°	4578.4	4581.2	4567.4	4542.6	4517.8	4486.0	4450.3	4422.6	4410.2	4408.8	4407.5
5°	4628.1	4635.0	4582.6	4505.4	4419.9	4315.1	4225.5	4123.5	4097.3	4055.9	4068.3
7.5°	4708.0	4703.9	4600.5	4436.4	4236.5	4014.6	3827.1	3718.2	3605.1	3573.4	3574.8
10°	4822.4	4796.3	4600.5	4295.9	3962.2	3632.7	3370.7	3205.3	3115.7	3041.3	3013.7
12.5°	4943.8	4877.6	4556.4	4098.7	3609.2	3205.3	2924.1	2700.7	2642.9	2582.2	2583.6
15°	5059.6	4949.3	4469.5	3821.6	3228.8	2749.0	2476.0	2342.3	2324.3	2331.3	2329.9
17.5°	5164.4	5000.3	4337.2	3512.8	2784.8	2357.5	2212.7	2222.4	2270.6	2305.1	2309.2
20°	5270.5	5030.6	4140.0	3099.2	2365.8	2120.4	2125.8	2201.6	2274.8	2321.6	2328.5
22.5°	5371.1	5044.4	3908.4	2699.4	2062.4	2019.7	2101.0	2182.4	2254.1	2299.6	2306.5
25°	5437.3	5012.7	3580.3	2281.7	1913.6	1983.9	2069.3	2138.3	2198.9	2245.8	2256.8
27.5°	5455.2	4910.7	3173.6	1943.9	1844.6	1949.4	2028.0	2078.9	2125.8	2169.9	2178.2
30°	5445.6	4760.4	2727.0	1745.4	1804.7	1909.4	1970.0	2007.3	2063.8	2098.3	2105.2
32.5°	5430.4	4585.3	2261.0	1639.2	1771.5	1872.2	1908.0	1941.1	1939.7	1925.9	1935.6
35°	5436.0	4375.8	1883.2	1575.8	1742.6	1844.6	1875.0	1833.6	1715.0	1709.5	1704.0
37.5°	5464.9	4169.0	1608.8	1531.6	1727.5	1840.4	1857.0	1666.8	1562.0	1513.8	1501.3
40°	5539.3	3927.7	1428.3	1498.6	1726.0	1872.2	1775.7	1582.7	1381.4	1287.6	1280.8
42.5°	5638.6	3690.6	1317.9	1477.9	1742.6	1920.5	1742.6	1464.1	1244.9	1189.8	1181.5
45°	5786.1	3419.0	1257.3	1468.3	1767.4	1938.4	1731.5	1377.2	1189.8	1145.6	1145.6
47.5°	5952.9	3159.8	1224.2	1461.3	1799.1	1925.9	1633.7	1349.7	1163.5	1169.1	1195.2
50°	6118.4	2935.1	1199.4	1446.2	1826.7	1919.1	1593.7	1348.3	1170.4	1240.7	1287.6
52.5°	6310.0	2776.6	1169.1	1421.4	1826.7	1875.0	1581.3	1375.9	1189.8	1210.4	1231.1
55°	6541.6	2727.0	1130.5	1367.6	1793.6	1764.6	1574.4	1415.8	1203.5	1155.3	1163.5
57.5°	6847.6	2806.9	1093.2	1300.0	1717.7	1650.3	1571.6	1426.9	1171.8	1131.8	1123.6
60°	7203.4	2965.5	1082.3	1231.1	1614.4	1552.4	1555.1	1395.1	1127.8	1086.3	1093.2
62.5°	7452.9	3060.6	1075.4	1178.7	1501.3	1444.8	1515.1	1356.5	1108.4	1072.6	1079.4
65°	7452.9	2944.8	1011.9	1098.8	1355.2	1315.2	1466.9	1308.3	1083.6	1042.3	1035.4
67.5°	7170.2	2607.0	915.4	978.8	1193.9	1167.7	1399.3	1250.5	1046.4	1014.7	998.2
70°	6434.1	1977.0	794.1	838.2	989.9	1013.3	1312.5	1171.8	984.3	945.7	921.0
71°	6110.1	1721.9	743.1	766.6	911.3	945.7	1271.1	1138.7	956.7	901.6	857.5
72.5°	5485.5	1450.4	665.9	675.5	778.9	840.9	1184.2	1075.4	904.4	825.8	776.2
75°	4167.6	1058.8	536.3	530.8	576.3	667.3	1002.2	958.2	792.7	686.5	657.6
77.5°	1800.5	576.3	401.2	405.3	391.5	506.0	788.6	823.0	679.6	558.4	532.1
80°	545.9	332.2	274.4	279.8	261.9	339.1	555.6	645.2	545.9	434.3	398.4
82.5°	279.8	198.5	187.5	184.7	166.8	191.6	336.4	441.1	390.2	271.6	239.9
85°	121.3	106.2	92.4	89.6	78.6	68.9	120.0	220.6	206.8	151.7	144.8
87.5°	30.3	27.6	17.9	16.5	9.6	1.4	0.0	0.0	0.0	0.0	0.0
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)