

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: P455956

Luminaire Tested: **GALN-SA7A-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455956
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-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 25902 lumens
Efficiency: N/A
Efficacy: 120.5 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

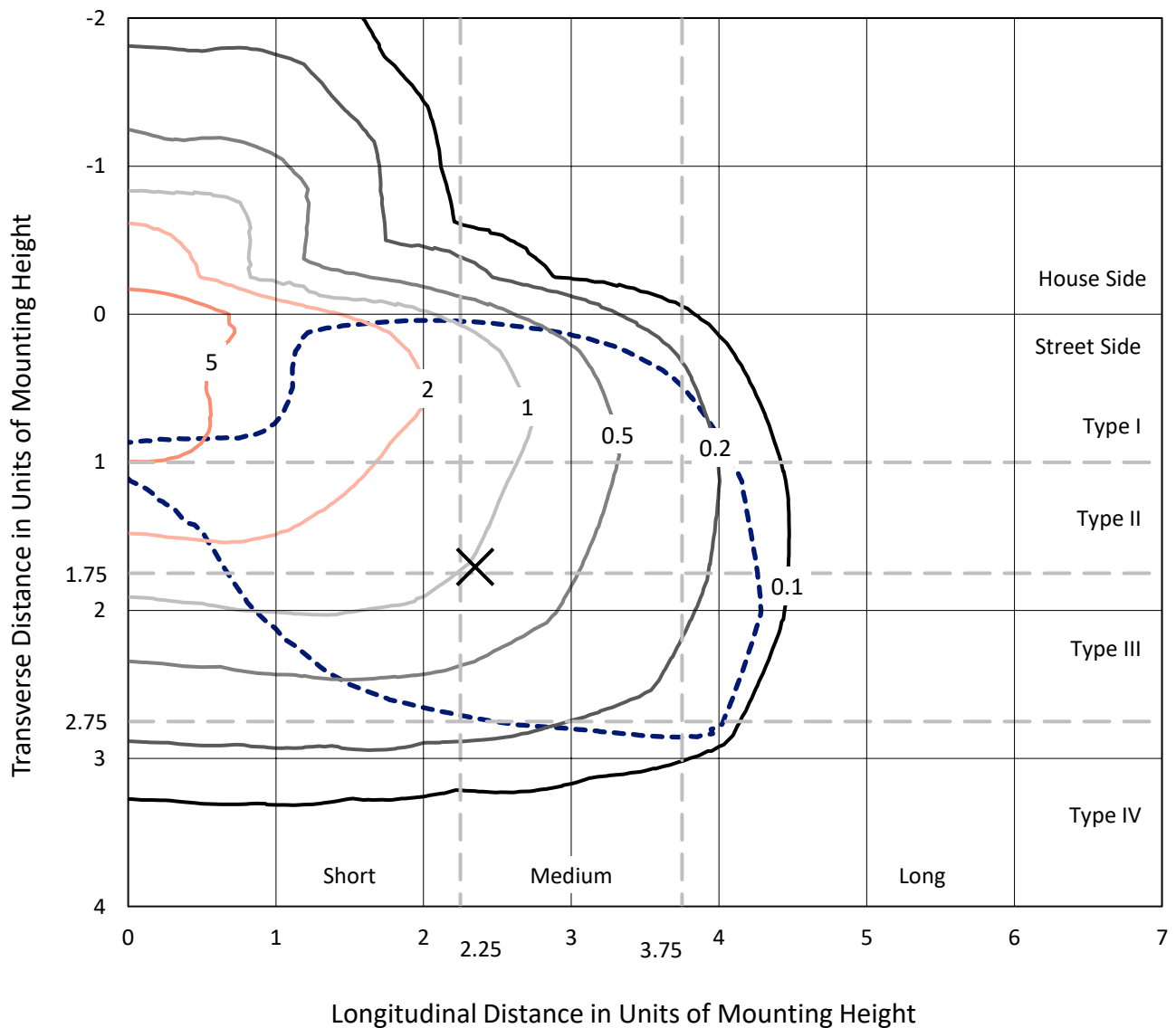
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

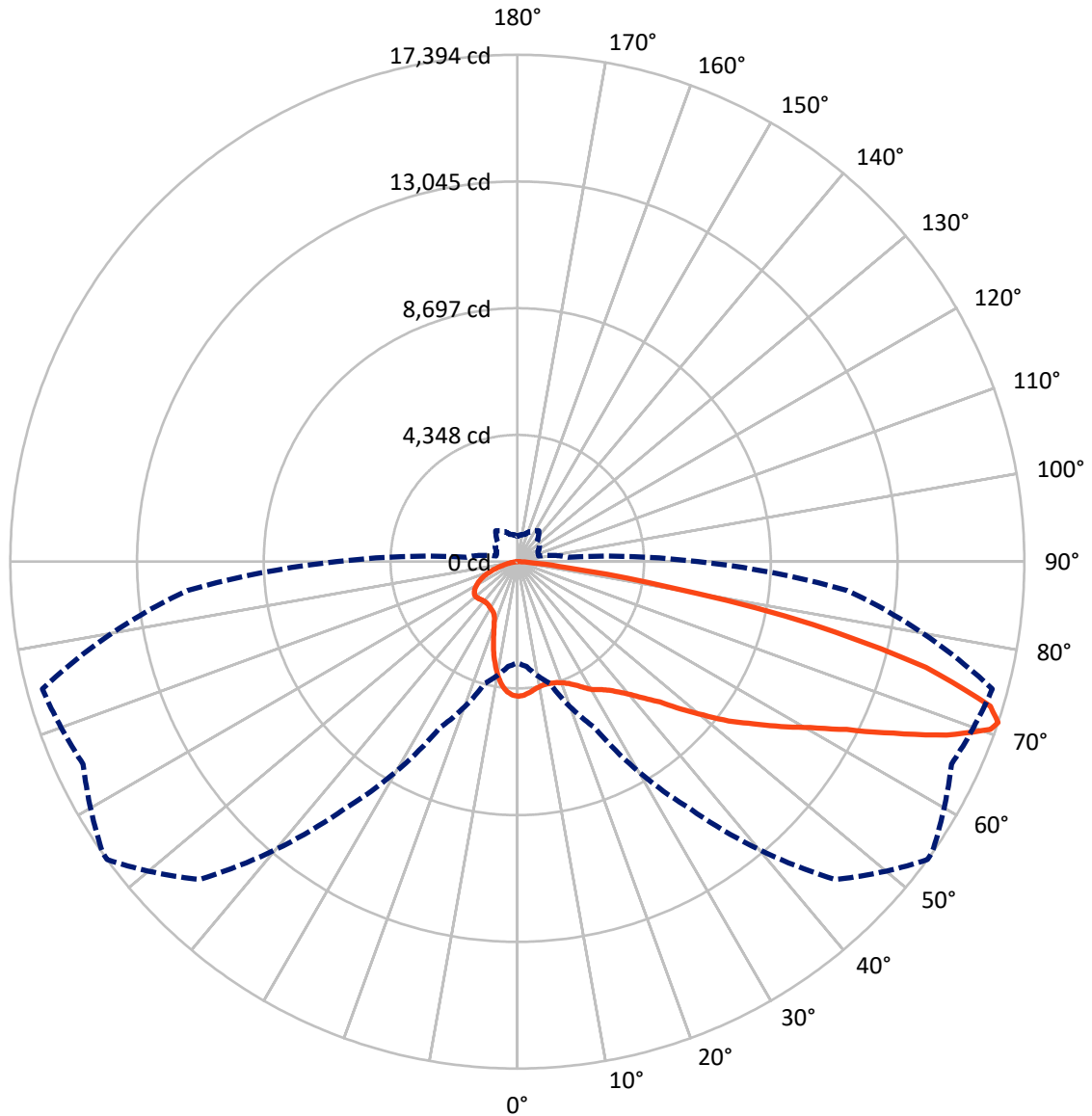
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type 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
House Side	Lumens	4676.4	0.0	4676.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	21225.6	0.0	21225.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	25902.0	0.0	25902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.8	1.6
10°-20°	1087.4	4.2
20°-30°	1810.6	7.0
30°-40°	2677.3	10.3
40°-50°	3771.1	14.6
50°-60°	5049.7	19.5
60°-70°	6364.7	24.6
70°-80°	4347.1	16.8
80°-90°	382.3	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°	25902.0	100.0
0°-180°	25902.0	100.0

Coefficient of Utilization



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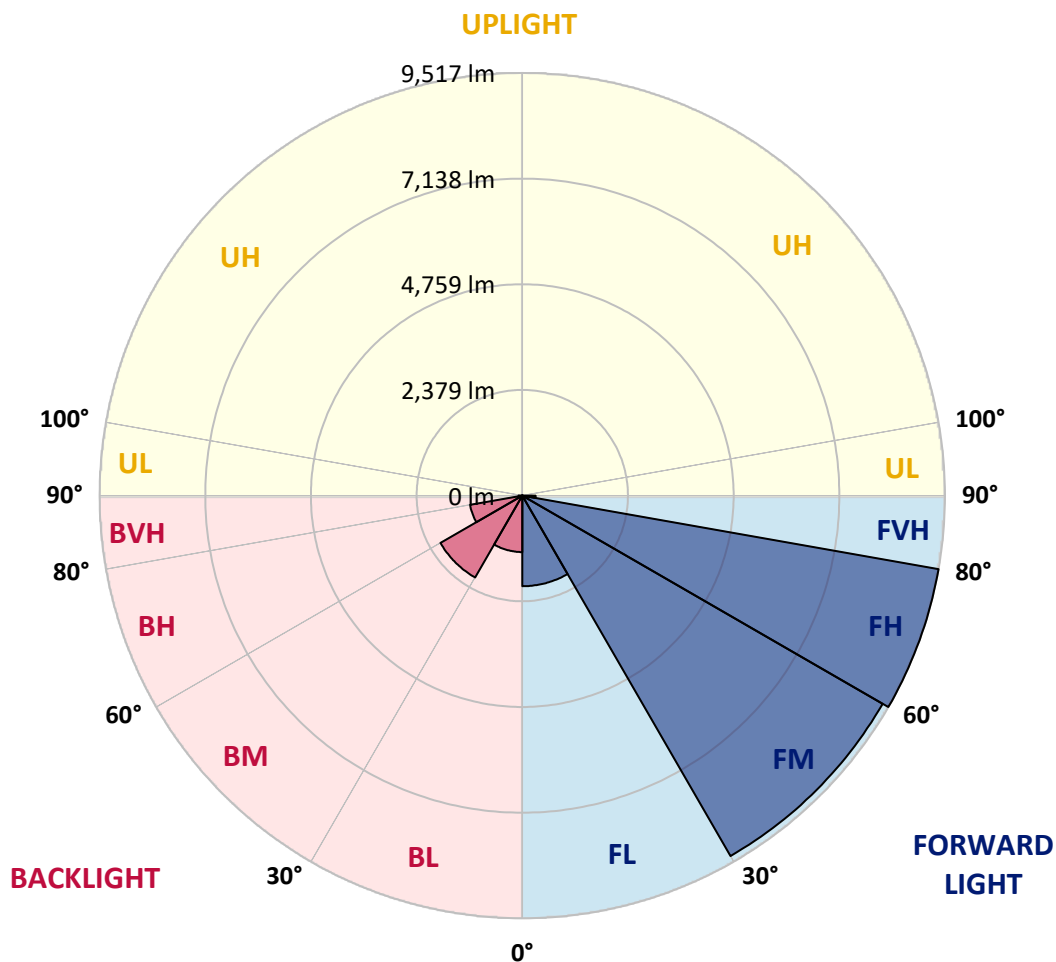
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2038.9	7.9			
FM	(30°-60°)	9370.4	36.2			
FH	(60°-80°)	9517.4	36.7			G4/12000
FVH	(80°-90°)	298.8	1.2			G3/500
BL	(0°-30°)	1271.0	4.9	B3/2500		
BM	(30°-60°)	2127.6	8.2	B2/2500		
BH	(60°-80°)	1194.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	83.5	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°	4621.3	4621.3	4621.3	4621.3	4621.3	4621.3	4621.3	4621.3	4621.3	4621.3	4621.3
2.5°	4464.6	4485.6	4491.2	4505.2	4534.6	4558.3	4582.1	4579.3	4612.9	4626.9	4639.5
5°	4265.9	4271.5	4292.5	4320.5	4372.3	4438.0	4502.4	4503.8	4586.3	4652.1	4684.3
7.5°	4120.4	4138.6	4152.6	4182.0	4236.5	4307.9	4410.0	4418.4	4565.3	4695.5	4764.0
10°	4025.3	4046.3	4061.7	4098.0	4152.6	4232.3	4342.9	4358.3	4549.9	4764.0	4884.3
12.5°	3938.5	3959.5	3973.5	4021.1	4092.4	4190.4	4314.9	4333.1	4555.5	4843.8	5015.9
15°	3991.7	4008.5	4002.9	4016.9	4064.4	4176.4	4326.1	4344.3	4576.5	4920.7	5146.0
17.5°	4228.1	4242.1	4196.0	4142.8	4120.4	4203.0	4361.1	4380.7	4618.5	5000.5	5278.9
20°	4576.5	4614.3	4513.6	4394.6	4286.9	4298.1	4433.8	4454.8	4677.3	5080.2	5414.6
22.5°	5029.8	5057.8	4934.7	4738.8	4540.2	4438.0	4542.9	4555.5	4765.4	5183.7	5562.9
25°	5562.9	5579.7	5409.0	5157.2	4870.3	4677.3	4692.7	4715.0	4910.9	5301.3	5694.4
27.5°	6080.6	6133.8	5936.5	5628.7	5250.9	4929.1	4898.3	4912.3	5069.0	5367.0	5785.4
30°	6694.8	6690.6	6482.1	6125.4	5641.3	5203.3	5092.8	5090.0	5154.4	5399.2	5851.1
32.5°	7184.5	7241.9	7037.6	6648.6	6087.6	5487.4	5227.1	5221.5	5220.1	5455.2	5949.1
35°	7741.3	7749.7	7562.3	7170.5	6570.3	5844.1	5414.6	5386.6	5354.4	5575.5	6082.0
37.5°	8239.4	8278.6	8106.5	7667.2	7044.6	6214.9	5672.0	5653.9	5555.9	5784.0	6294.7
40°	8628.4	8657.8	8554.2	8135.9	7511.9	6615.0	5999.4	5965.9	5846.9	6125.4	6578.7
42.5°	8755.7	8815.9	8856.4	8650.8	8049.1	7089.4	6402.4	6360.4	6269.5	6643.0	6906.1
45°	8765.5	8860.6	9074.7	9084.5	8589.2	7657.4	6872.5	6843.1	6836.1	7306.2	7366.4
47.5°	8691.3	8787.9	9147.5	9341.9	9070.5	8231.0	7551.1	7504.9	7509.1	8126.1	7882.7
50°	8512.3	8627.0	9063.5	9507.0	9446.9	8827.1	8267.4	8252.0	8338.8	9062.1	8418.5
52.5°	8175.1	8313.6	8976.8	9610.6	9726.7	9340.5	9081.7	9038.3	9258.0	10077.9	9004.7
55°	7241.9	7450.3	8659.2	9667.9	9992.5	9831.6	9814.8	9893.2	10184.2	11186.0	9649.7
57.5°	6755.0	6911.7	7969.4	9677.7	10328.3	10402.5	10671.1	10690.7	11200.0	12362.6	10378.7
60°	6489.1	6627.6	7591.6	9613.4	10797.0	11109.0	11547.0	11616.9	12192.0	13637.2	11134.2
62.5°	6256.9	6375.8	7365.0	9390.9	11325.9	12157.0	12681.6	12715.2	13318.2	15044.8	11879.9
65°	5709.8	5845.5	6908.9	9168.4	11782.0	13466.6	14187.1	14147.9	14517.3	16259.2	12347.3
67.5°	4972.5	5144.6	6056.8	8400.3	12007.3	14897.9	15882.8	15833.9	15700.9	17055.3	12481.6
70°	4030.9	4123.2	4966.9	7072.6	11107.6	15649.2	17221.8	17170.0	16434.1	17160.2	11846.4
71°	3468.4	3612.5	4324.7	6282.1	10359.1	15419.7	17393.9	17379.9	16435.5	16870.6	11367.9
72.5°	2707.3	2795.4	3425.1	4867.5	8804.7	14115.7	16968.6	17021.7	16078.7	16066.1	10381.5
75°	1712.5	1751.7	2149.1	2865.4	4831.2	9996.7	14485.1	14629.2	14276.6	13150.3	7720.4
77.5°	994.8	1045.1	1287.2	1688.7	2087.5	5425.8	10364.7	10521.4	9919.8	7240.5	3160.6
80°	579.2	635.2	847.9	980.8	958.4	2013.3	5277.5	5544.7	4295.3	1828.7	887.0
82.5°	321.8	359.6	596.0	597.4	510.7	657.6	1660.8	1737.7	1225.6	737.3	362.4
85°	233.7	264.4	384.8	348.4	244.8	282.6	577.8	605.8	495.3	310.6	117.5
87.5°	82.5	117.5	211.3	167.9	67.2	58.8	166.5	135.7	125.9	86.7	26.6
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°	4621.3	4621.3	4621.3	4621.3	4621.3	4621.3	4621.3	4621.3	4621.3	4621.3	4621.3
2.5°	4646.5	4649.3	4635.3	4610.1	4584.9	4552.7	4516.4	4488.4	4475.8	4474.4	4473.0
5°	4696.9	4703.8	4650.7	4572.3	4485.6	4379.3	4288.3	4184.8	4158.2	4116.2	4128.8
7.5°	4778.0	4773.8	4668.9	4502.4	4299.5	4074.2	3884.0	3773.4	3658.7	3626.5	3627.9
10°	4894.1	4867.5	4668.9	4359.7	4021.1	3686.7	3420.9	3253.0	3162.0	3086.5	3058.5
12.5°	5017.3	4950.1	4624.1	4159.6	3662.9	3253.0	2967.5	2740.9	2682.1	2620.6	2622.0
15°	5134.8	5022.8	4536.0	3878.4	3276.7	2789.8	2512.8	2377.1	2358.9	2365.9	2364.5
17.5°	5241.1	5074.6	4401.6	3565.0	2826.2	2392.5	2245.6	2255.4	2304.4	2339.3	2343.5
20°	5348.8	5105.4	4201.6	3145.2	2400.9	2151.8	2157.4	2234.4	2308.6	2356.1	2363.1
22.5°	5451.0	5119.4	3966.5	2739.5	2093.1	2049.7	2132.3	2214.8	2287.6	2333.7	2340.7
25°	5518.1	5087.2	3633.5	2315.5	1942.0	2013.3	2100.1	2170.0	2231.6	2279.2	2290.4
27.5°	5536.3	4983.7	3220.8	1972.8	1872.0	1978.4	2058.1	2109.9	2157.4	2202.2	2210.6
30°	5526.5	4831.2	2767.5	1771.3	1831.5	1937.8	1999.3	2037.1	2094.5	2129.5	2136.5
32.5°	5511.1	4653.5	2294.6	1663.6	1797.9	1900.0	1936.4	1970.0	1968.6	1954.6	1964.4
35°	5516.7	4440.8	1911.2	1599.2	1768.5	1872.0	1902.8	1860.8	1740.5	1734.9	1729.3
37.5°	5546.1	4230.9	1632.8	1554.4	1753.1	1867.8	1884.6	1691.5	1585.2	1536.2	1523.6
40°	5621.7	3986.1	1449.5	1520.8	1751.7	1900.0	1802.1	1606.2	1401.9	1306.8	1299.8
42.5°	5722.4	3745.4	1337.6	1499.9	1768.5	1949.0	1768.5	1485.9	1263.4	1207.4	1199.0
45°	5872.1	3469.8	1276.0	1490.1	1793.7	1967.2	1757.3	1397.7	1207.4	1162.7	1162.7
47.5°	6041.4	3206.8	1242.4	1483.1	1825.9	1954.6	1658.0	1369.7	1180.9	1186.5	1213.0
50°	6209.3	2978.7	1217.2	1467.7	1853.8	1947.6	1617.4	1368.3	1187.9	1259.2	1306.8
52.5°	6403.8	2817.8	1186.5	1442.5	1853.8	1902.8	1604.8	1396.3	1207.4	1228.4	1249.4
55°	6638.8	2767.5	1147.3	1387.9	1820.3	1790.9	1597.8	1436.9	1221.4	1172.5	1180.9
57.5°	6949.4	2848.6	1109.5	1319.4	1743.3	1674.7	1595.0	1448.1	1189.3	1148.7	1140.3
60°	7310.4	3009.5	1098.3	1249.4	1638.4	1575.4	1578.2	1415.9	1144.5	1102.5	1109.5
62.5°	7563.7	3106.1	1091.3	1196.2	1523.6	1466.3	1537.6	1376.7	1124.9	1088.5	1095.5
65°	7563.7	2988.5	1027.0	1115.1	1375.3	1334.8	1488.7	1327.8	1099.7	1057.7	1050.7
67.5°	7276.8	2645.7	929.0	993.4	1211.6	1185.1	1420.1	1269.0	1061.9	1029.8	1013.0
70°	6529.7	2006.3	805.9	850.7	1004.6	1028.4	1332.0	1189.3	999.0	959.8	934.6
71°	6200.9	1747.5	754.1	777.9	924.8	959.8	1290.0	1155.7	971.0	915.0	870.3
72.5°	5567.1	1471.9	675.8	685.6	790.5	853.5	1201.8	1091.3	917.8	838.1	787.7
75°	4229.5	1074.5	544.3	538.7	584.8	677.2	1017.2	972.4	804.5	696.8	667.4
77.5°	1827.3	584.8	407.1	411.3	397.4	513.5	800.3	835.3	689.8	566.6	540.1
80°	554.1	337.2	278.4	284.0	265.8	344.2	563.8	654.8	554.1	440.7	404.3
82.5°	284.0	201.5	190.3	187.5	169.3	194.5	341.4	447.7	396.0	275.6	243.4
85°	123.1	107.7	93.7	90.9	79.7	70.0	121.7	223.9	209.9	153.9	146.9
87.5°	30.8	28.0	18.2	16.8	9.8	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)