

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: P455811

Luminaire Tested: **GALN-SA7A-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455811
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-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 29685 lumens
Efficiency: N/A
Efficacy: 138.1 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

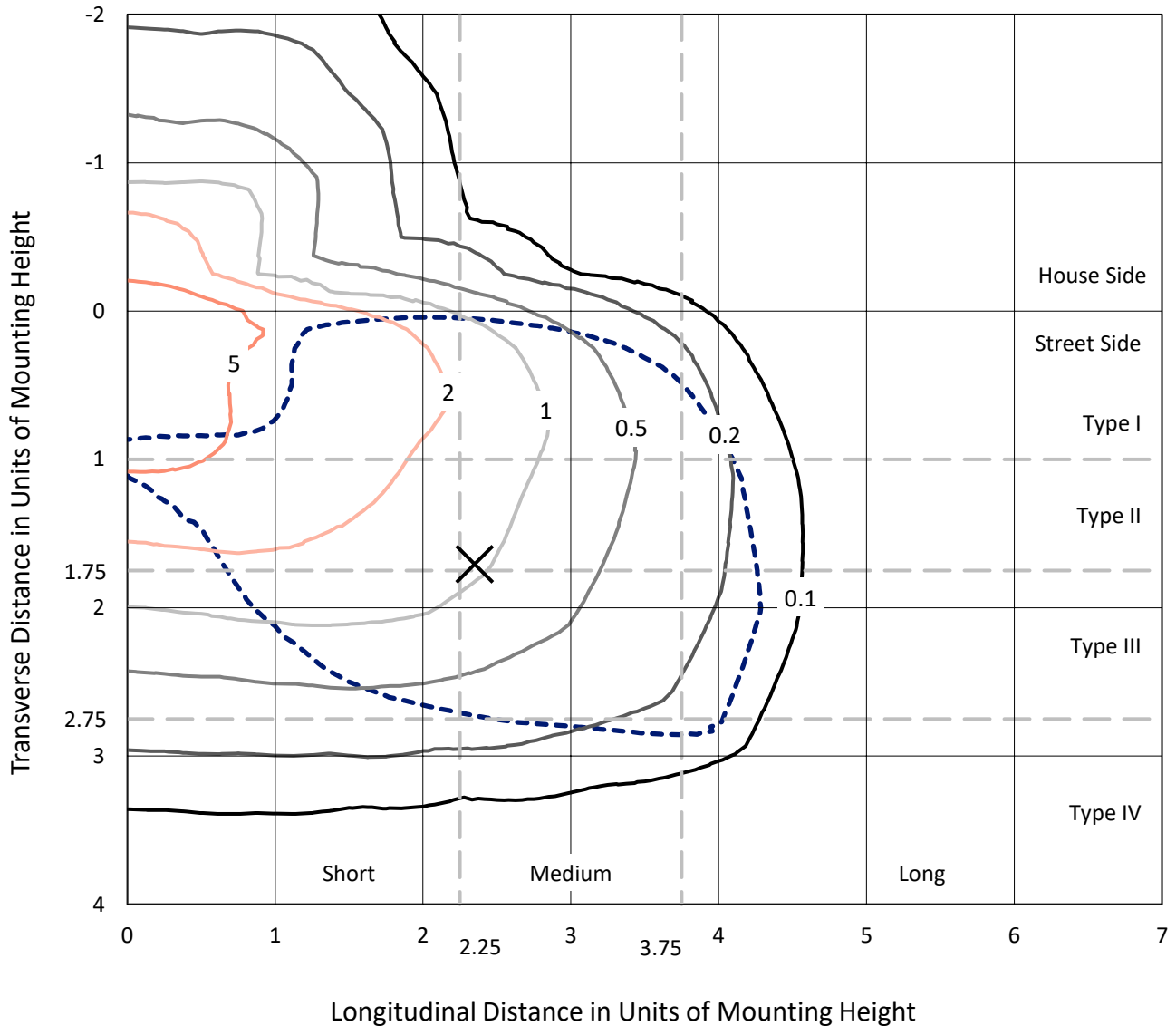
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

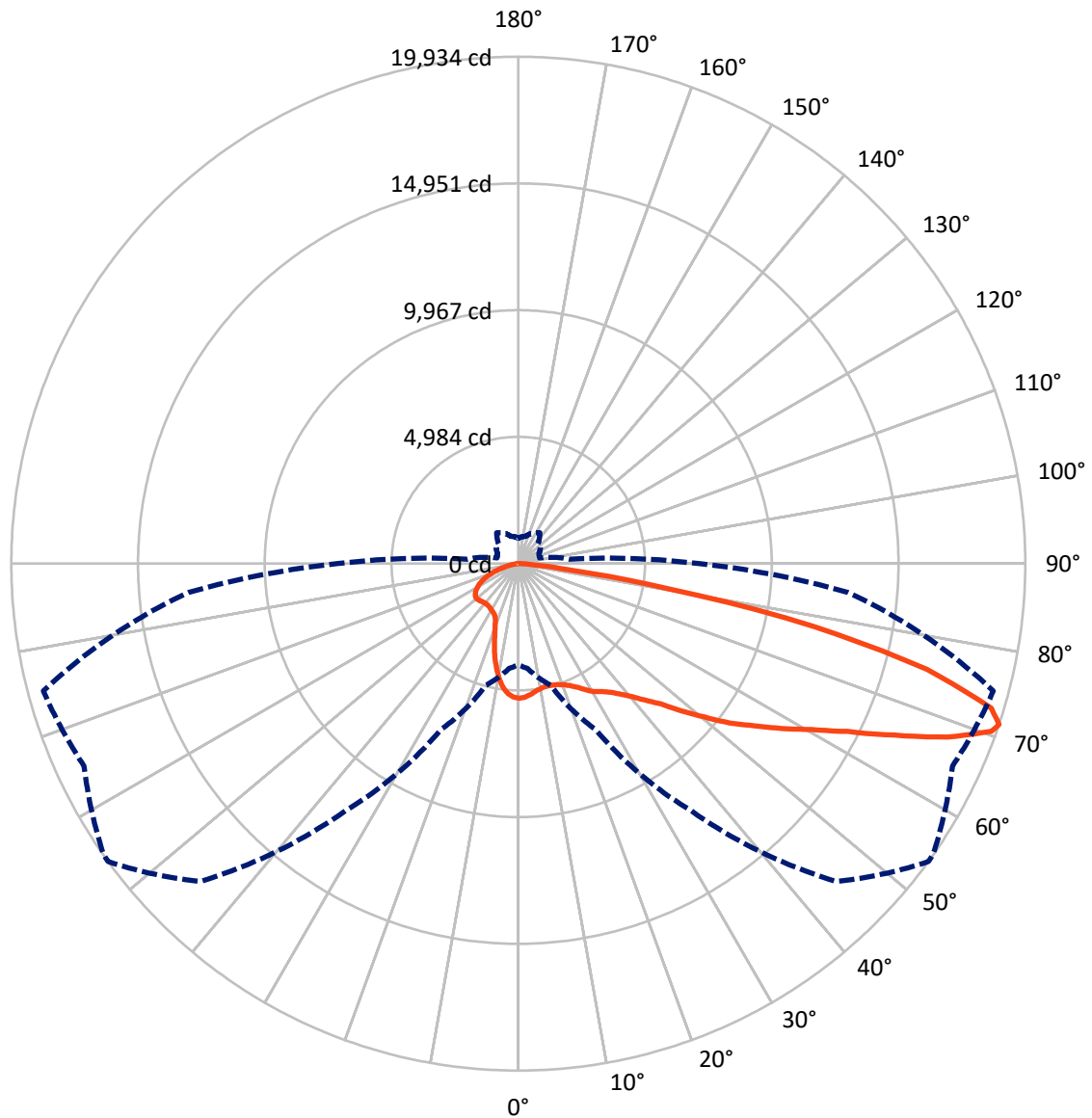
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	5359.4	0.0	5359.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	24325.6	0.0	24325.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	29685.0	0.0	29685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.0	1.6
10°-20°	1246.3	4.2
20°-30°	2075.1	7.0
30°-40°	3068.3	10.3
40°-50°	4321.9	14.6
50°-60°	5787.2	19.5
60°-70°	7294.3	24.6
70°-80°	4982.0	16.8
80°-90°	438.1	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°	29685.0	100.0
0°-180°	29685.0	100.0

Coefficient of Utilization



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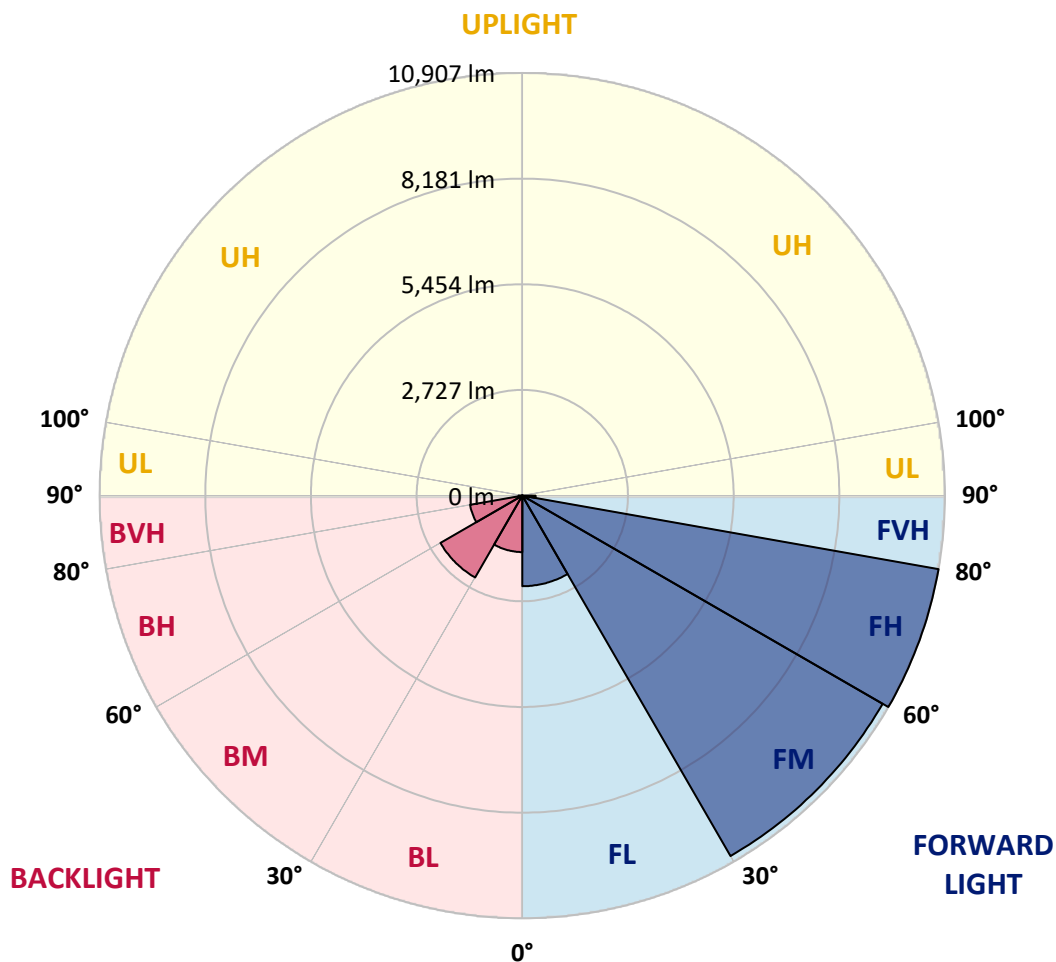
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2336.7	7.9			
FM	(30°-60°)	10739.0	36.2			
FH	(60°-80°)	10907.4	36.7			G4/12000
FVH	(80°-90°)	342.5	1.2			G3/500
BL	(0°-30°)	1456.6	4.9	B3/2500		
BM	(30°-60°)	2438.4	8.2	B2/2500		
BH	(60°-80°)	1368.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	95.7	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°	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2
2.5°	5116.7	5140.7	5147.1	5163.2	5196.8	5224.1	5251.3	5248.1	5286.6	5302.7	5317.1
5°	4889.0	4895.4	4919.4	4951.5	5010.8	5086.2	5159.9	5161.6	5256.2	5331.5	5368.4
7.5°	4722.2	4743.0	4759.1	4792.8	4855.3	4937.1	5054.1	5063.7	5232.1	5381.2	5459.8
10°	4613.2	4637.2	4654.9	4696.5	4759.1	4850.5	4977.2	4994.8	5214.5	5459.8	5597.7
12.5°	4513.8	4537.8	4553.8	4608.4	4690.1	4802.4	4945.1	4965.9	5220.9	5551.2	5748.4
15°	4574.7	4593.9	4587.5	4603.5	4658.1	4786.3	4957.9	4978.8	5244.9	5639.4	5897.5
17.5°	4845.7	4861.7	4808.8	4747.9	4722.2	4816.8	4998.0	5020.4	5293.0	5730.8	6049.9
20°	5244.9	5288.2	5172.8	5036.5	4913.0	4925.8	5081.4	5105.4	5360.4	5822.2	6205.4
22.5°	5764.5	5796.5	5655.4	5430.9	5203.2	5086.2	5206.4	5220.9	5461.4	5940.8	6375.4
25°	6375.4	6394.6	6199.0	5910.4	5581.7	5360.4	5378.0	5403.7	5628.2	6075.5	6526.1
27.5°	6968.7	7029.6	6803.5	6450.7	6017.8	5649.0	5613.7	5629.8	5809.4	6150.9	6630.3
30°	7672.6	7667.8	7428.9	7020.0	6465.2	5963.3	5836.6	5833.4	5907.2	6187.8	6705.7
32.5°	8233.8	8299.5	8065.4	7619.7	6976.7	6288.8	5990.5	5984.1	5982.5	6251.9	6817.9
35°	8872.0	8881.6	8666.7	8217.8	7529.9	6697.7	6205.4	6173.3	6136.5	6389.8	6970.3
37.5°	9442.8	9487.7	9290.5	8787.0	8073.4	7122.6	6500.4	6479.6	6367.4	6628.7	7214.0
40°	9888.6	9922.2	9803.6	9324.1	8609.0	7581.2	6875.7	6837.2	6700.9	7020.0	7539.5
42.5°	10034.5	10103.4	10149.9	9914.2	9224.7	8124.8	7337.5	7289.4	7185.1	7613.2	7914.7
45°	10045.7	10154.7	10400.1	10411.3	9843.7	8775.8	7876.2	7842.5	7834.5	8373.3	8442.2
47.5°	9960.7	10071.4	10483.5	10706.3	10395.3	9433.2	8653.9	8601.0	8605.8	9312.9	9033.9
50°	9755.5	9887.0	10387.2	10895.5	10826.6	10116.3	9474.9	9457.2	9556.6	10385.6	9648.0
52.5°	9369.0	9527.8	10287.8	11014.2	11147.3	10704.7	10408.1	10358.4	10610.1	11549.8	10319.9
55°	8299.5	8538.4	9923.8	11079.9	11451.9	11267.5	11248.3	11338.1	11671.6	12819.7	11059.1
57.5°	7741.5	7921.1	9133.3	11091.2	11836.8	11921.8	12229.6	12252.1	12835.7	14168.2	11894.5
60°	7436.9	7595.6	8700.4	11017.4	12373.9	12731.5	13233.4	13313.6	13972.6	15629.0	12760.4
62.5°	7170.7	7307.0	8440.6	10762.5	12980.0	13932.5	14533.8	14572.3	15263.4	17242.1	13615.0
65°	6543.7	6699.3	7917.9	10507.5	13502.8	15433.3	16259.1	16214.2	16637.5	18633.9	14150.6
67.5°	5698.7	5895.9	6941.4	9627.2	13760.9	17073.7	18202.5	18146.4	17994.1	19546.2	14304.5
70°	4619.6	4725.4	5692.3	8105.5	12729.9	17934.8	19737.0	19677.7	18834.3	19666.5	13576.5
71°	3975.0	4140.1	4956.3	7199.6	11872.1	17671.8	19934.3	19918.2	18835.9	19334.6	13028.1
72.5°	3102.7	3203.7	3925.3	5578.5	10090.6	16177.4	19446.8	19507.8	18427.0	18412.6	11897.7
75°	1962.6	2007.5	2462.9	3283.9	5536.8	11456.8	16600.7	16765.8	16361.8	15071.0	8847.9
77.5°	1140.1	1197.8	1475.2	1935.4	2392.4	6218.2	11878.5	12058.1	11368.6	8297.9	3622.2
80°	663.8	728.0	971.7	1124.0	1098.4	2307.4	6048.3	6354.5	4922.6	2095.7	1016.6
82.5°	368.8	412.1	683.1	684.7	585.3	753.6	1903.3	1991.5	1404.6	845.0	415.3
85°	267.8	303.1	441.0	399.3	280.6	323.9	662.2	694.3	567.6	356.0	134.7
87.5°	94.6	134.7	242.1	192.4	77.0	67.3	190.8	155.5	144.3	99.4	30.5
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°	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2	5296.2
2.5°	5325.1	5328.3	5312.3	5283.4	5254.6	5217.7	5176.0	5143.9	5129.5	5127.9	5126.3
5°	5382.8	5390.8	5329.9	5240.1	5140.7	5018.8	4914.6	4796.0	4765.5	4717.4	4731.8
7.5°	5475.8	5471.0	5350.8	5159.9	4927.4	4669.3	4451.2	4324.5	4193.1	4156.2	4157.8
10°	5608.9	5578.5	5350.8	4996.4	4608.4	4225.1	3920.5	3728.1	3623.8	3537.2	3505.2
12.5°	5750.0	5673.1	5299.5	4767.1	4197.9	3728.1	3400.9	3141.2	3073.8	3003.3	3004.9
15°	5884.7	5756.4	5198.4	4444.8	3755.3	3197.3	2879.8	2724.3	2703.4	2711.5	2709.9
17.5°	6006.6	5815.8	5044.5	4085.6	3239.0	2741.9	2573.6	2584.8	2640.9	2681.0	2685.8
20°	6130.0	5851.0	4815.2	3604.6	2751.5	2466.1	2472.5	2560.7	2645.7	2700.2	2708.3
22.5°	6247.1	5867.1	4545.8	3139.6	2398.8	2349.1	2443.7	2538.3	2621.7	2674.6	2682.6
25°	6324.1	5830.2	4164.2	2653.7	2225.6	2307.4	2406.8	2487.0	2557.5	2612.0	2624.9
27.5°	6344.9	5711.5	3691.2	2260.9	2145.4	2267.3	2358.7	2418.0	2472.5	2523.9	2533.5
30°	6333.7	5536.8	3171.7	2030.0	2098.9	2220.8	2291.4	2334.6	2400.4	2440.5	2448.5
32.5°	6316.0	5333.1	2629.7	1906.5	2060.5	2177.5	2219.2	2257.7	2256.1	2240.0	2251.3
35°	6322.5	5089.4	2190.3	1832.8	2026.8	2145.4	2180.7	2132.6	1994.7	1988.3	1981.9
37.5°	6356.1	4848.9	1871.2	1781.4	2009.1	2140.6	2159.9	1938.6	1816.7	1760.6	1746.2
40°	6442.7	4568.3	1661.2	1743.0	2007.5	2177.5	2065.3	1840.8	1606.7	1497.6	1489.6
42.5°	6558.2	4292.5	1532.9	1718.9	2026.8	2233.6	2026.8	1702.9	1447.9	1383.8	1374.2
45°	6729.7	3976.6	1462.4	1707.7	2055.6	2254.5	2014.0	1601.9	1383.8	1332.5	1332.5
47.5°	6923.8	3675.1	1423.9	1699.7	2092.5	2240.0	1900.1	1569.8	1353.3	1359.7	1390.2
50°	7116.2	3413.8	1395.0	1682.0	2124.6	2232.0	1853.6	1568.2	1361.3	1443.1	1497.6
52.5°	7339.1	3229.4	1359.7	1653.2	2124.6	2180.7	1839.2	1600.3	1383.8	1407.8	1431.9
55°	7608.4	3171.7	1314.8	1590.6	2086.1	2052.4	1831.2	1646.8	1399.8	1343.7	1353.3
57.5°	7964.4	3264.7	1271.5	1512.1	1997.9	1919.3	1827.9	1659.6	1362.9	1316.4	1306.8
60°	8378.1	3449.1	1258.7	1431.9	1877.7	1805.5	1808.7	1622.7	1311.6	1263.5	1271.5
62.5°	8668.3	3559.7	1250.7	1371.0	1746.2	1680.4	1762.2	1577.8	1289.2	1247.5	1255.5
65°	8668.3	3425.0	1176.9	1278.0	1576.2	1529.7	1706.1	1521.7	1260.3	1212.2	1204.2
67.5°	8339.6	3032.2	1064.7	1138.5	1388.6	1358.1	1627.5	1454.3	1217.0	1180.1	1160.9
70°	7483.4	2299.4	923.6	974.9	1151.3	1178.5	1526.5	1362.9	1144.9	1100.0	1071.1
71°	7106.6	2002.7	864.3	891.5	1059.9	1100.0	1478.4	1324.5	1112.8	1048.7	997.4
72.5°	6380.2	1686.8	774.5	785.7	906.0	978.1	1377.4	1250.7	1051.9	960.5	902.8
75°	4847.3	1231.5	623.7	617.3	670.2	776.1	1165.7	1114.4	922.0	798.5	764.9
77.5°	2094.1	670.2	466.6	471.4	455.4	588.5	917.2	957.3	790.5	649.4	618.9
80°	635.0	386.4	319.1	325.5	304.7	394.5	646.2	750.4	635.0	505.1	463.4
82.5°	325.5	230.9	218.1	214.9	194.0	222.9	391.2	513.1	453.8	315.9	279.0
85°	141.1	123.5	107.4	104.2	91.4	80.2	139.5	256.6	240.5	176.4	168.4
87.5°	35.3	32.1	20.8	19.2	11.2	1.6	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)