

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: P454419

Luminaire Tested: **GALN-SA5C-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454419
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-SA5C-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32812 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

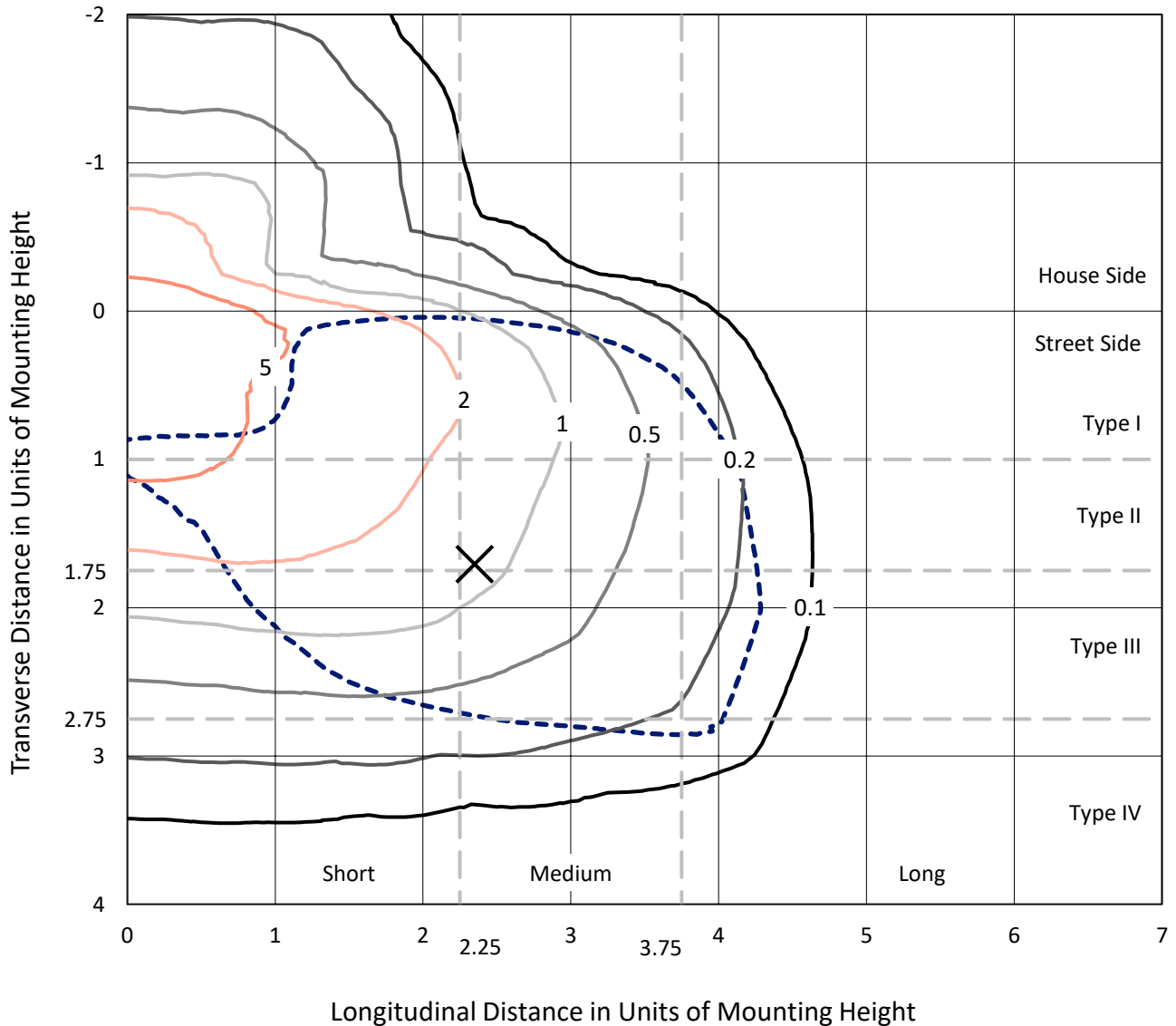
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

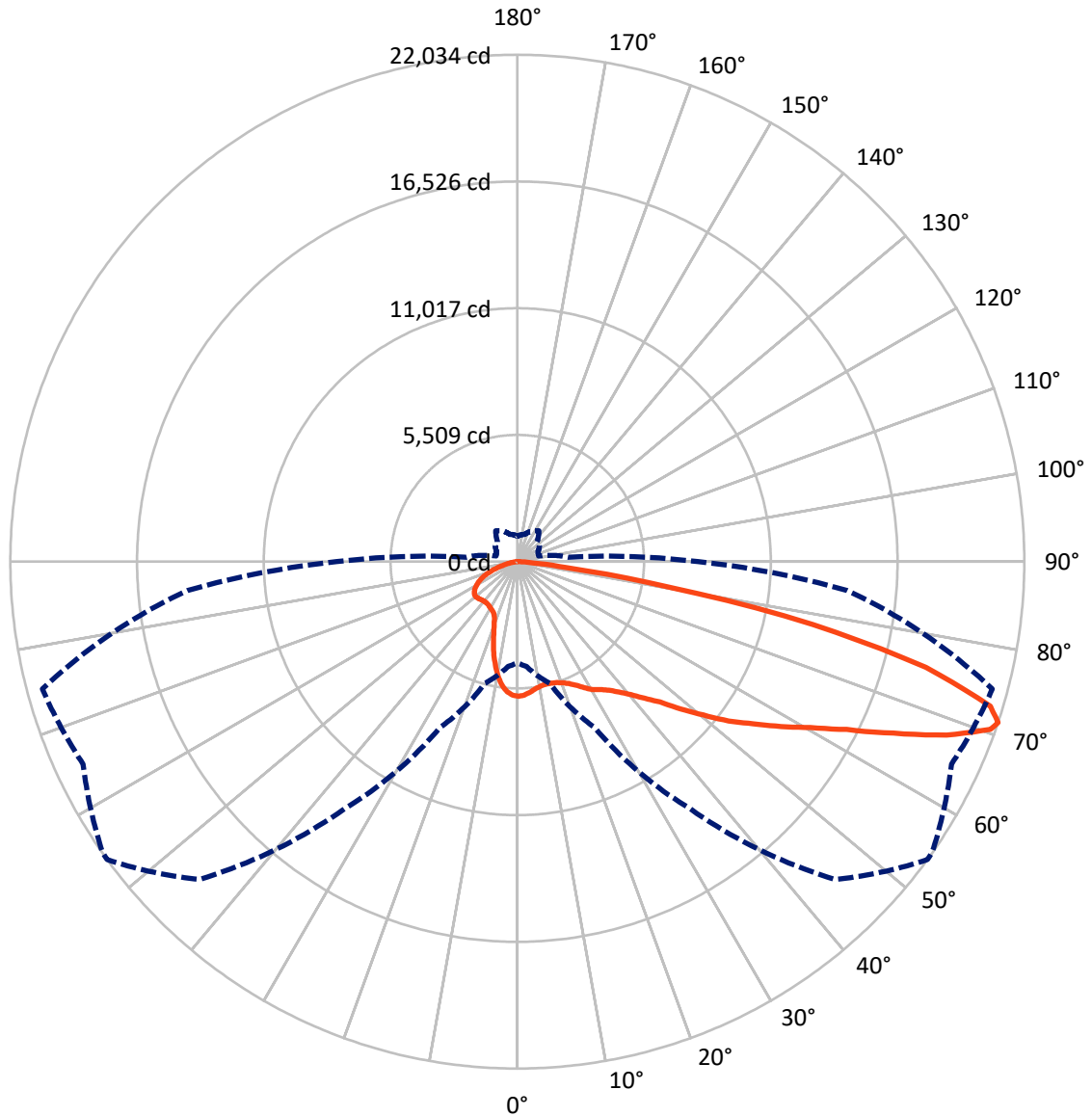
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	5924.0	0.0	5924.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	26888.0	0.0	26888.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	32812.0	0.0	32812.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.7	1.6
10°-20°	1377.5	4.2
20°-30°	2293.6	7.0
30°-40°	3391.6	10.3
40°-50°	4777.1	14.6
50°-60°	6396.8	19.5
60°-70°	8062.6	24.6
70°-80°	5506.8	16.8
80°-90°	484.3	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°	32812.0	100.0
0°-180°	32812.0	100.0



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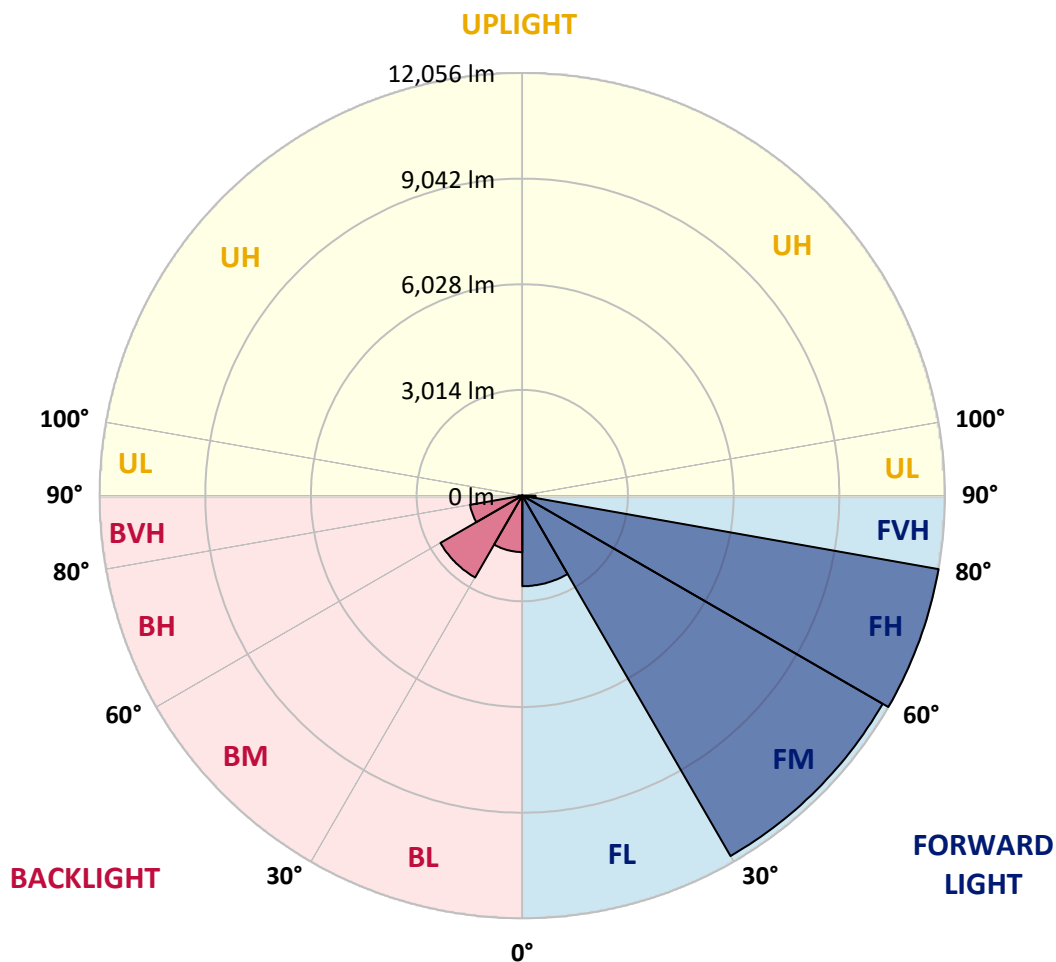
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2582.8	7.9			
FM	(30°-60°)	11870.2	36.2			
FH	(60°-80°)	12056.4	36.7			G5
FVH	(80°-90°)	378.5	1.2			G3/500
BL	(0°-30°)	1610.0	4.9	B3/2500		
BM	(30°-60°)	2695.2	8.2	B3/5000		
BH	(60°-80°)	1513.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	105.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1
2.5°	5655.6	5682.2	5689.3	5707.0	5744.3	5774.4	5804.5	5801.0	5843.5	5861.2	5877.2
5°	5404.0	5411.1	5437.6	5473.1	5538.7	5622.0	5703.5	5705.3	5809.8	5893.1	5933.9
7.5°	5219.6	5242.7	5260.4	5297.6	5366.7	5457.1	5586.5	5597.2	5783.3	5948.1	6034.9
10°	5099.1	5125.7	5145.2	5191.3	5260.4	5361.4	5501.4	5520.9	5763.8	6034.9	6187.4
12.5°	4989.2	5015.8	5033.5	5093.8	5184.2	5308.3	5466.0	5489.0	5770.8	6136.0	6354.0
15°	5056.6	5077.8	5070.8	5088.5	5148.7	5290.5	5480.2	5503.2	5797.4	6233.4	6518.8
17.5°	5356.1	5373.8	5315.3	5248.0	5219.6	5324.2	5524.5	5549.3	5850.6	6334.5	6687.2
20°	5797.4	5845.3	5717.7	5567.0	5430.5	5444.7	5616.6	5643.2	5925.0	6435.5	6859.1
22.5°	6371.7	6407.1	6251.2	6003.0	5751.3	5622.0	5754.9	5770.8	6036.7	6566.6	7047.0
25°	7047.0	7068.2	6852.0	6533.0	6169.6	5925.0	5944.5	5972.9	6221.0	6715.5	7213.6
27.5°	7702.7	7770.1	7520.2	7130.3	6651.7	6244.1	6205.1	6222.8	6421.3	6798.8	7328.8
30°	8480.8	8475.5	8211.4	7759.4	7146.2	6591.5	6451.4	6447.9	6529.4	6839.6	7412.1
32.5°	9101.1	9173.8	8915.0	8422.3	7711.6	6951.2	6621.6	6614.5	6612.7	6910.5	7536.1
35°	9806.5	9817.2	9579.7	9083.4	8323.1	7403.2	6859.1	6823.6	6782.9	7062.9	7704.5
37.5°	10437.5	10487.1	10269.1	9712.6	8923.9	7872.9	7185.2	7162.2	7038.1	7327.0	7973.9
40°	10930.2	10967.4	10836.3	10306.3	9515.9	8379.8	7599.9	7557.4	7406.7	7759.4	8333.7
42.5°	11091.5	11167.7	11219.1	10958.6	10196.5	8980.6	8110.4	8057.2	7942.0	8415.2	8748.4
45°	11103.9	11224.4	11495.6	11508.0	10880.6	9700.2	8705.9	8668.7	8659.8	9255.3	9331.5
47.5°	11010.0	11132.3	11587.8	11834.1	11490.3	10426.9	9565.5	9507.0	9512.3	10293.9	9985.5
50°	10783.1	10928.4	11481.4	12043.3	11967.1	11181.9	10472.9	10453.5	10563.3	11479.7	10664.4
52.5°	10356.0	10531.4	11371.5	12174.4	12321.5	11832.4	11504.5	11449.5	11727.8	12766.4	11407.0
55°	9173.8	9437.9	10969.2	12247.1	12658.3	12454.5	12433.2	12532.4	12901.1	14170.1	12224.1
57.5°	8557.0	8755.5	10095.4	12259.5	13083.7	13177.6	13517.9	13542.7	14187.8	15660.7	13147.5
60°	8220.3	8395.7	9616.9	12178.0	13677.4	14072.6	14627.4	14716.0	15444.5	17275.3	14104.5
62.5°	7926.1	8076.7	9329.8	11896.2	14347.4	15400.1	16064.8	16107.3	16871.2	19058.3	15049.2
65°	7233.1	7405.0	8752.0	11614.4	14925.1	17059.1	17971.9	17922.2	18390.1	20596.7	15641.2
67.5°	6299.0	6517.0	7672.6	10641.3	15210.5	18872.2	20120.0	20057.9	19889.6	21605.2	15811.3
70°	5106.2	5223.2	6291.9	8959.3	14070.9	19824.0	21816.1	21750.6	20818.3	21738.1	15006.7
71°	4393.7	4576.3	5478.4	7958.0	13122.6	19533.3	22034.1	22016.4	20820.1	21371.3	14400.5
72.5°	3429.5	3541.2	4338.8	6166.1	11153.5	17881.5	21495.3	21562.7	20368.1	20352.2	13151.0
75°	2169.4	2219.0	2722.4	3629.8	6120.0	12663.6	18349.4	18531.9	18085.3	16658.5	9780.0
77.5°	1260.2	1324.0	1630.6	2139.3	2644.4	6873.3	13129.7	13328.2	12566.1	9172.0	4003.8
80°	733.8	804.7	1074.1	1242.4	1214.1	2550.4	6685.4	7023.9	5441.2	2316.5	1123.7
82.5°	407.6	455.5	755.0	756.8	646.9	833.0	2103.8	2201.3	1552.6	934.0	459.0
85°	296.0	335.0	487.4	441.3	310.2	358.0	732.0	767.4	627.4	393.5	148.9
87.5°	104.6	148.9	267.6	212.7	85.1	74.4	210.9	171.9	159.5	109.9	33.7
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°	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1	5854.1
2.5°	5886.0	5889.6	5871.9	5840.0	5808.1	5767.3	5721.2	5685.8	5669.8	5668.0	5666.3
5°	5949.9	5958.7	5891.4	5792.1	5682.2	5547.5	5432.3	5301.2	5267.5	5214.3	5230.3
7.5°	6052.7	6047.3	5914.4	5703.5	5446.5	5161.1	4920.1	4780.1	4634.8	4594.0	4595.8
10°	6199.8	6166.1	5914.4	5522.7	5093.8	4670.2	4333.5	4120.8	4005.6	3909.9	3874.4
12.5°	6355.7	6270.7	5857.7	5269.3	4640.1	4120.8	3759.2	3472.1	3397.6	3319.7	3321.4
15°	6504.6	6362.8	5746.0	4913.0	4150.9	3534.1	3183.2	3011.3	2988.2	2997.1	2995.3
17.5°	6639.3	6428.4	5575.9	4516.0	3580.2	3030.8	2844.7	2857.1	2919.1	2963.4	2968.7
20°	6775.8	6467.4	5322.4	3984.3	3041.4	2725.9	2733.0	2830.5	2924.4	2984.7	2993.5
22.5°	6905.2	6485.1	5024.7	3470.3	2651.5	2596.5	2701.1	2805.7	2897.8	2956.3	2965.2
25°	6990.2	6444.3	4602.9	2933.3	2460.1	2550.4	2660.3	2748.9	2826.9	2887.2	2901.4
27.5°	7013.3	6313.2	4080.0	2499.0	2371.4	2506.1	2607.2	2672.7	2733.0	2789.7	2800.3
30°	7000.9	6120.0	3505.8	2243.8	2320.0	2454.7	2532.7	2580.6	2653.2	2697.6	2706.4
32.5°	6981.4	5894.9	2906.7	2107.4	2277.5	2406.9	2453.0	2495.5	2493.7	2476.0	2488.4
35°	6988.5	5625.5	2421.1	2025.8	2240.3	2371.4	2410.4	2357.3	2204.8	2197.7	2190.7
37.5°	7025.7	5359.7	2068.4	1969.1	2220.8	2366.1	2387.4	2142.8	2008.1	1946.1	1930.1
40°	7121.4	5049.5	1836.2	1926.6	2219.0	2406.9	2282.8	2034.7	1775.9	1655.4	1646.5
42.5°	7249.0	4744.6	1694.4	1900.0	2240.3	2468.9	2240.3	1882.3	1600.5	1529.6	1518.9
45°	7438.6	4395.5	1616.4	1887.6	2272.2	2492.0	2226.1	1770.6	1529.6	1472.8	1472.8
47.5°	7653.1	4062.3	1573.9	1878.7	2312.9	2476.0	2100.3	1735.2	1495.9	1503.0	1536.6
50°	7865.8	3773.4	1542.0	1859.2	2348.4	2467.1	2048.9	1733.4	1504.7	1595.1	1655.4
52.5°	8112.1	3569.6	1503.0	1827.3	2348.4	2410.4	2032.9	1768.8	1529.6	1556.1	1582.7
55°	8409.9	3505.8	1453.3	1758.2	2305.9	2268.6	2024.0	1820.2	1547.3	1485.2	1495.9
57.5°	8803.4	3608.6	1405.5	1671.3	2208.4	2121.5	2020.5	1834.4	1506.5	1455.1	1444.5
60°	9260.6	3812.4	1391.3	1582.7	2075.4	1995.7	1999.2	1793.6	1449.8	1396.6	1405.5
62.5°	9581.4	3934.7	1382.5	1515.4	1930.1	1857.4	1947.8	1744.0	1425.0	1378.9	1387.8
65°	9581.4	3785.8	1300.9	1412.6	1742.2	1690.8	1885.8	1682.0	1393.1	1339.9	1331.1
67.5°	9218.1	3351.6	1176.9	1258.4	1534.9	1501.2	1799.0	1607.5	1345.2	1304.5	1283.2
70°	8271.7	2541.6	1020.9	1077.6	1272.6	1302.7	1687.3	1506.5	1265.5	1215.8	1183.9
71°	7855.2	2213.7	955.3	985.4	1171.5	1215.8	1634.1	1464.0	1230.0	1159.1	1102.4
72.5°	7052.3	1864.5	856.1	868.5	1001.4	1081.1	1522.5	1382.5	1162.7	1061.7	997.8
75°	5357.9	1361.2	689.5	682.4	740.9	857.8	1288.5	1231.8	1019.1	882.6	845.4
77.5°	2314.7	740.9	515.8	521.1	503.4	650.5	1013.8	1058.1	873.8	717.8	684.1
80°	701.9	427.1	352.7	359.8	336.8	436.0	714.3	829.5	701.9	558.3	512.2
82.5°	359.8	255.2	241.0	237.5	214.5	246.4	432.5	567.2	501.6	349.2	308.4
85°	156.0	136.5	118.7	115.2	101.0	88.6	154.2	283.6	265.9	195.0	186.1
87.5°	39.0	35.4	23.0	21.3	12.4	1.8	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)