

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: P456300

Luminaire Tested: **GALN-SA7C-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49905 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

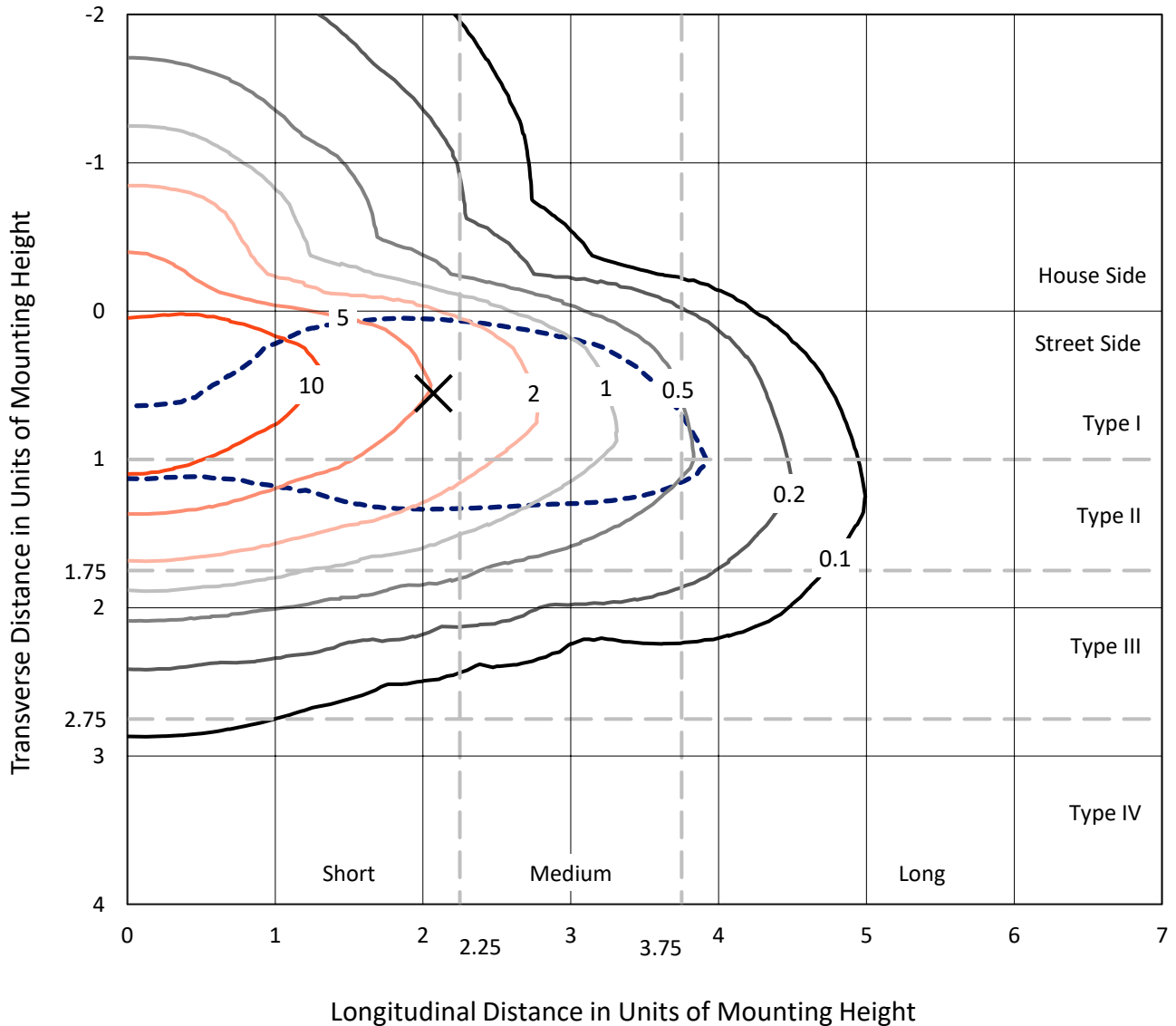
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

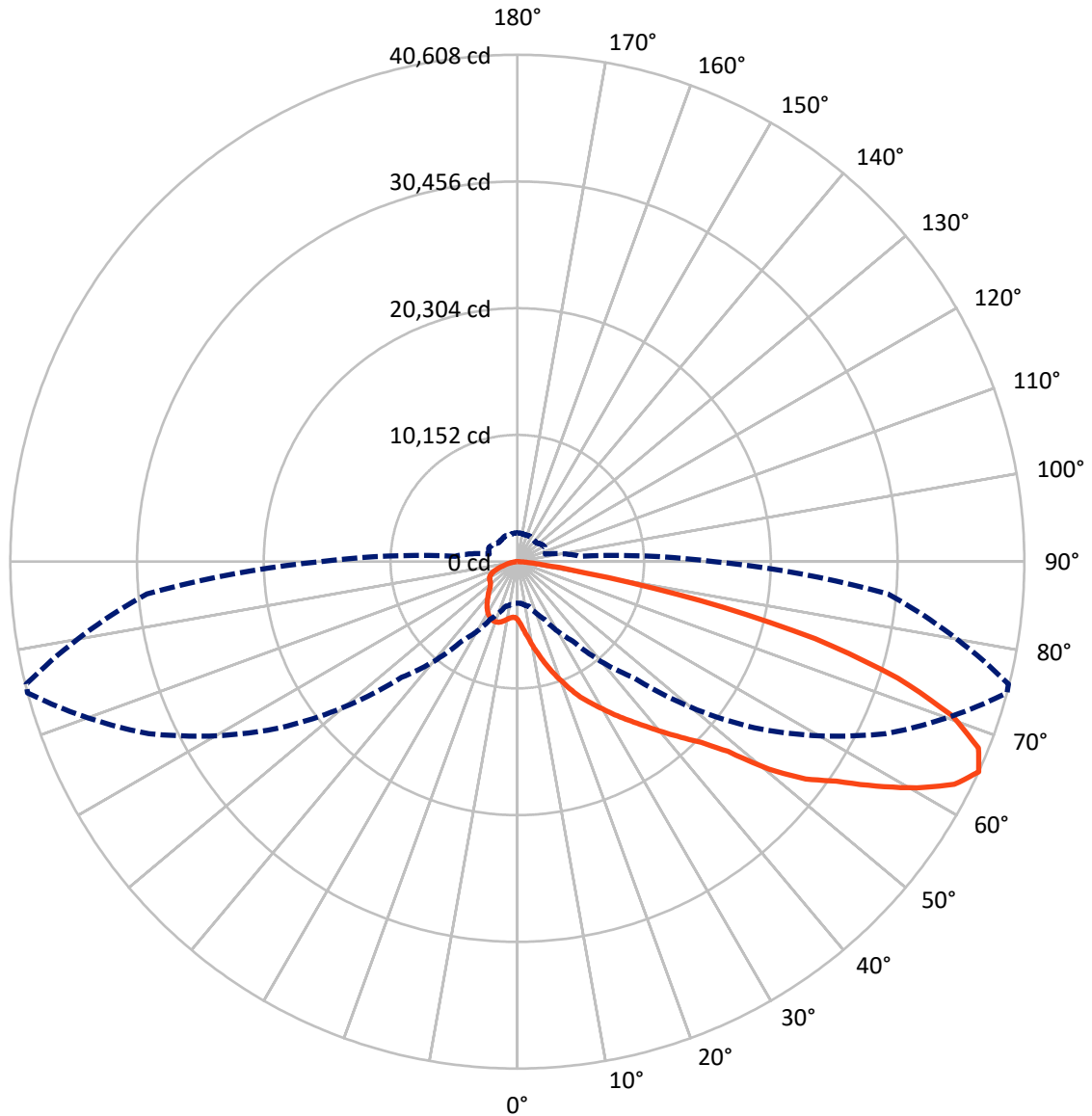
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8389.7	0.0	8389.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	41515.3	0.0	41515.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	49905.0	0.0	49905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.4	1.1
10°-20°	2206.6	4.4
20°-30°	4262.4	8.5
30°-40°	6923.4	13.9
40°-50°	9523.8	19.1
50°-60°	11244.3	22.5
60°-70°	9851.9	19.7
70°-80°	4703.4	9.4
80°-90°	625.8	1.3
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°	49905.0	100.0
0°-180°	49905.0	100.0

Coefficient of Utilization



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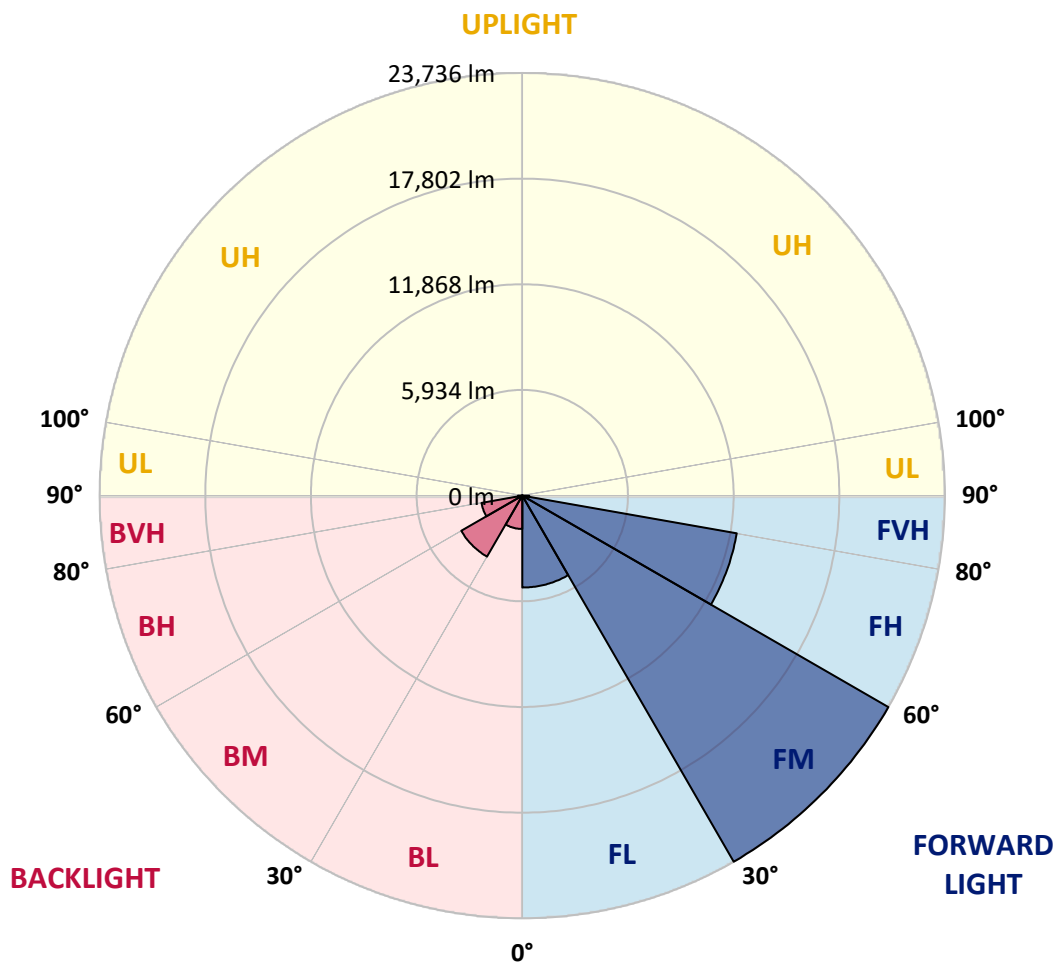
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5159.4	10.3			
FM	(30°-60°)	23735.9	47.6			
FH	(60°-80°)	12229.0	24.5			G5
FVH	(80°-90°)	391.1	0.8			G3/500
BL	(0°-30°)	1873.0	3.8	B3/2500		
BM	(30°-60°)	3955.7	7.9	B3/5000		
BH	(60°-80°)	2326.3	4.7	B3/2500		G3/2500
BVH	(80°-90°)	234.7	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8
2.5°	6160.8	6120.1	6076.8	5957.7	5830.5	5687.1	5481.3	5283.7	5021.2	5013.1	4818.2
5°	7868.8	7841.7	7649.5	7538.5	7243.5	6851.0	6518.1	6001.0	5521.9	5465.1	5086.1
7.5°	9438.7	9333.2	9260.1	9059.8	8767.4	8264.0	7619.7	6921.4	6120.1	6044.4	5416.4
10°	10621.6	10610.8	10572.9	10399.7	10180.4	9679.6	8965.0	7963.5	6878.1	6729.2	5817.0
12.5°	11506.7	11514.9	11509.5	11506.7	11349.8	10924.8	10150.6	9095.0	7644.1	7538.5	6279.9
15°	12088.7	12169.9	12202.4	12337.7	12351.3	12067.1	11401.2	10188.5	8507.6	8350.6	6777.9
17.5°	12473.1	12513.7	12665.3	12895.4	13082.1	13030.7	12437.9	11200.9	9390.0	9127.4	7294.9
20°	12841.2	12911.6	13028.0	13342.0	13672.2	13823.8	13406.9	12237.6	10264.3	10096.5	7866.1
22.5°	13607.2	13707.4	13748.0	13907.7	14189.2	14457.2	14267.7	13231.0	11222.5	10995.2	8472.4
25°	14903.8	15009.4	14895.7	14857.8	14949.8	15082.5	15041.9	14167.6	12126.6	11801.8	9046.2
27.5°	16592.9	16606.4	16384.5	16173.3	15946.0	15878.3	15753.8	14998.6	12911.6	12640.9	9622.8
30°	18406.5	18341.5	17973.4	17591.7	17207.3	16828.4	16471.1	15799.8	13785.9	13474.6	10188.5
32.5°	20090.1	20054.9	19646.2	19053.4	18403.8	18046.5	17323.7	16609.1	14722.5	14422.0	10770.5
35°	21351.5	21402.9	20953.6	20306.7	19597.5	19280.8	18368.6	17459.1	15691.5	15364.0	11403.9
37.5°	22247.5	22220.4	21822.5	21262.2	20639.6	20363.5	19589.3	18387.5	16733.6	16419.6	12096.8
40°	22566.9	22550.6	22255.6	21846.8	21451.7	21354.2	20867.0	19389.0	17927.4	17559.2	12930.5
42.5°	22363.9	22399.0	22204.2	22093.2	22020.1	22090.5	22136.5	20701.9	19229.3	18891.0	13834.6
45°	21741.3	21722.3	21695.3	21876.6	22288.1	22750.9	23392.5	21941.6	20645.0	20374.3	15047.3
47.5°	20628.8	20764.1	20831.8	21332.6	22231.2	23327.5	24837.9	23603.6	22699.5	22464.0	16896.1
50°	19072.3	19180.6	19581.2	20471.8	21811.7	23544.0	26250.9	26321.2	26126.4	25685.1	18904.5
52.5°	16641.6	16809.4	17635.0	19267.2	20950.9	23454.7	27106.2	28651.8	28909.0	28578.7	20883.2
55°	13921.2	14156.7	15028.3	17169.4	19765.3	22967.5	27696.3	30002.5	31028.4	30722.6	22788.8
57.5°	11257.7	11506.7	12402.7	14476.1	17697.3	21890.2	28083.4	31507.5	33913.9	33516.0	25160.0
60°	8437.2	8697.1	9465.8	11601.5	14752.2	19784.2	27820.8	32812.2	36796.7	36626.2	27533.9
62.5°	5443.4	5730.4	6399.0	8166.5	11338.9	16906.9	26416.0	33532.2	39292.4	39086.7	29266.3
65°	3315.9	3348.4	3716.5	5069.9	7760.5	13090.2	23203.0	32576.7	40607.9	40545.7	29794.1
67.5°	2143.8	2195.2	2363.1	3037.1	4653.0	9092.3	18552.6	29423.3	39839.2	39817.5	28703.3
70°	1810.9	1827.1	1902.9	2049.1	2704.1	5513.8	13028.0	24396.7	36918.5	36918.5	26080.3
72.5°	1618.7	1640.3	1667.4	1713.4	1930.0	3123.7	7774.0	18991.1	31875.7	32086.8	22198.7
75°	1469.8	1464.4	1480.6	1488.8	1645.8	2041.0	4019.6	14045.8	24659.2	24237.0	16075.9
77.5°	1258.7	1266.8	1258.7	1293.9	1453.6	1553.7	2041.0	9425.2	14944.4	14397.6	8069.1
80°	1034.0	1047.5	1061.1	1082.7	1242.4	1180.2	1226.2	4295.7	5527.4	5411.0	2493.0
82.5°	776.9	795.8	817.5	868.9	977.2	779.6	774.2	1835.2	1994.9	1827.1	917.6
85°	314.0	370.8	560.3	611.7	614.5	427.7	476.4	766.0	814.8	795.8	360.0
87.5°	73.1	86.6	181.4	273.4	251.7	159.7	175.9	249.0	284.2	262.6	121.8
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°	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8	4636.8
2.5°	4728.8	4634.1	4471.7	4347.2	4257.8	4179.4	4130.6	4100.9	4090.0	4087.3	4090.0
5°	4888.5	4720.7	4463.6	4301.2	4211.8	4160.4	4130.6	4127.9	4130.6	4133.3	4125.2
7.5°	5107.8	4866.9	4531.2	4379.7	4312.0	4274.1	4260.6	4255.1	4257.8	4255.1	4255.1
10°	5400.1	5069.9	4663.9	4506.9	4450.0	4406.7	4385.1	4371.5	4360.7	4349.9	4344.5
12.5°	5722.2	5294.6	4807.3	4655.8	4574.5	4506.9	4458.2	4423.0	4398.6	4374.2	4368.8
15°	6082.3	5532.8	4967.0	4755.9	4639.5	4539.4	4455.4	4398.6	4355.3	4320.1	4317.4
17.5°	6426.0	5757.4	5075.3	4801.9	4631.4	4490.6	4379.7	4301.2	4247.0	4201.0	4195.6
20°	6794.2	5971.3	5124.0	4772.1	4550.2	4379.7	4233.5	4138.7	4076.5	4025.1	4016.9
22.5°	7165.0	6152.6	5118.6	4677.4	4409.4	4209.1	4054.8	3954.7	3881.6	3830.2	3811.2
25°	7519.6	6298.8	5051.0	4525.8	4214.5	4006.1	3849.1	3757.1	3692.1	3629.9	3629.9
27.5°	7839.0	6385.4	4923.7	4341.8	4014.2	3795.0	3670.5	3586.6	3527.0	3486.4	3462.0
30°	8153.0	6426.0	4750.5	4109.0	3803.1	3616.3	3516.2	3467.5	3413.3	3367.3	3361.9
32.5°	8434.5	6417.9	4533.9	3881.6	3602.8	3470.2	3429.6	3391.7	3334.8	3269.9	3253.6
35°	8707.9	6363.8	4276.8	3632.6	3435.0	3383.5	3394.4	3340.2	3237.4	3156.2	3142.6
37.5°	9005.6	6266.3	3995.3	3429.6	3294.2	3342.9	3370.0	3250.9	3083.1	2955.9	2926.1
40°	9349.4	6155.3	3702.9	3226.5	3183.2	3305.0	3305.0	3085.8	2855.7	2777.2	2755.6
42.5°	9752.7	6063.3	3459.3	3056.0	3091.2	3213.0	3199.5	2866.5	2771.8	2731.2	2720.4
45°	10391.5	6030.8	3207.6	2907.1	3015.4	3104.7	2993.8	2790.7	2736.6	2704.1	2693.3
47.5°	11401.2	6068.7	2985.6	2796.2	2928.8	2996.5	2763.7	2739.3	2701.4	2655.4	2650.0
50°	12337.7	6033.5	2828.6	2733.9	2853.0	2866.5	2668.9	2677.1	2655.4	2604.0	2593.1
52.5°	13103.8	5922.6	2728.5	2701.4	2788.0	2639.2	2579.6	2609.4	2601.3	2536.3	2525.5
55°	13945.6	5854.9	2679.8	2701.4	2744.7	2441.6	2495.7	2539.0	2528.2	2482.2	2479.5
57.5°	14966.1	5868.4	2644.6	2709.5	2701.4	2341.4	2411.8	2463.2	2460.5	2447.0	2447.0
60°	16010.9	5873.8	2590.4	2706.8	2650.0	2262.9	2325.2	2398.3	2403.7	2411.8	2411.8
62.5°	16357.4	5638.3	2484.9	2658.1	2536.3	2187.1	2244.0	2344.1	2338.7	2360.4	2363.1
65°	15710.5	4986.0	2327.9	2547.1	2390.1	2133.0	2181.7	2273.7	2244.0	2300.8	2311.6
67.5°	14300.2	4125.2	2084.3	2346.8	2227.7	2076.1	2141.1	2176.3	2122.2	2233.1	2235.8
70°	12359.4	3221.1	1775.7	2062.6	2043.7	2016.6	2108.6	2054.5	1978.7	2114.0	2087.0
72.5°	10334.7	2460.5	1418.4	1686.4	1797.3	1927.3	2051.8	1897.5	1791.9	1832.5	1783.8
75°	7763.2	1819.0	1139.6	1320.9	1496.9	1800.0	2000.3	1708.0	1545.6	1507.7	1496.9
77.5°	3957.4	1188.3	852.7	988.0	1123.3	1626.8	1930.0	1486.1	1280.3	1220.8	1193.7
80°	1413.0	739.0	600.9	682.1	757.9	1399.4	1686.4	1228.9	993.4	982.6	993.4
82.5°	655.1	476.4	403.3	446.6	449.3	933.9	1285.7	917.6	755.2	1147.7	969.0
85°	281.5	238.2	227.4	222.0	205.7	416.9	722.7	492.6	768.7	343.8	316.7
87.5°	83.9	94.7	83.9	62.3	46.0	46.0	73.1	27.1	18.9	13.5	13.5
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)