

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: STREETWORKS

Report Number: P300346

Luminaire Tested: **GAA-AF-09-LED-U-T4FT-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-09-LED-U-T4FT-8030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43539.9 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

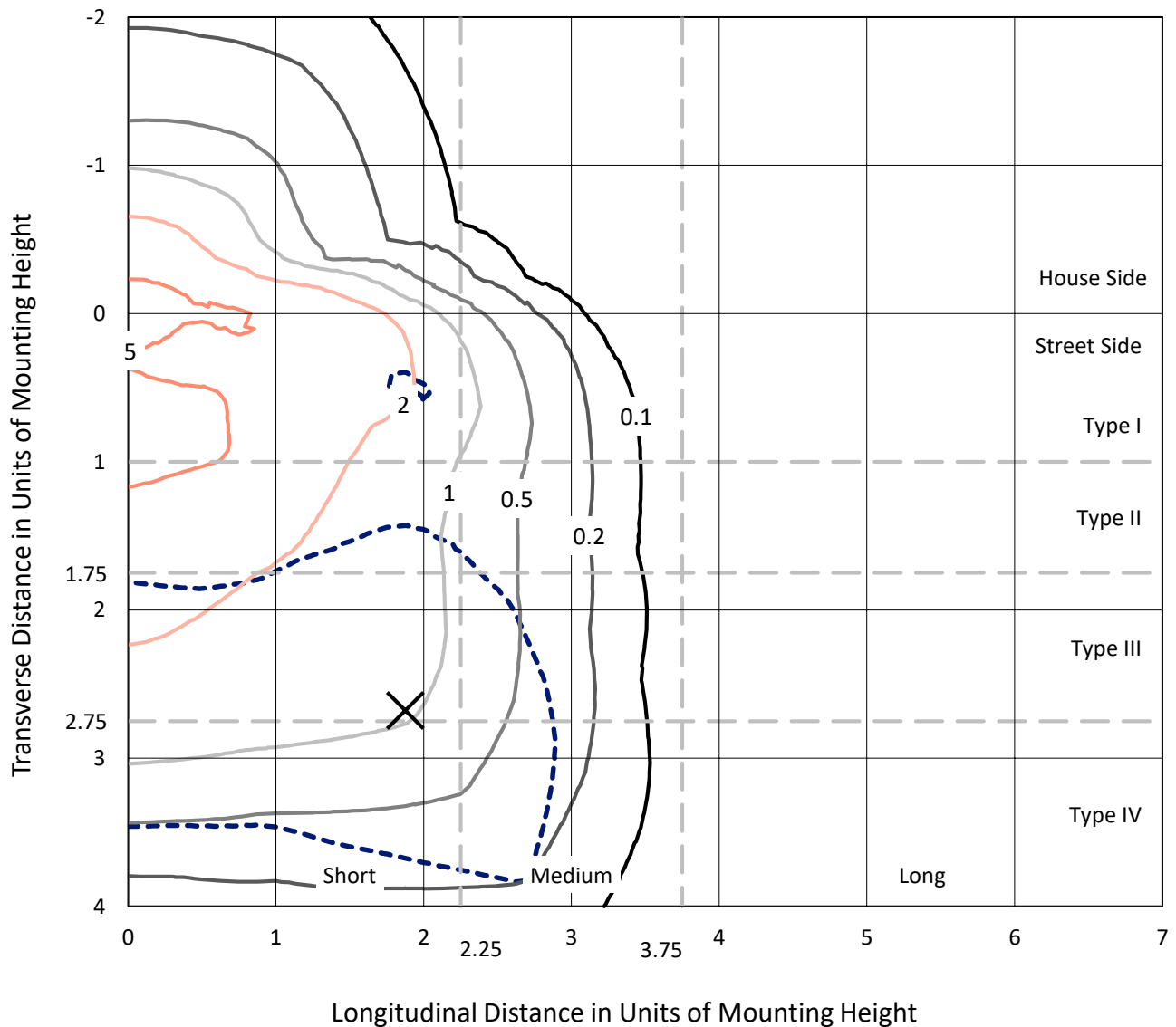
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

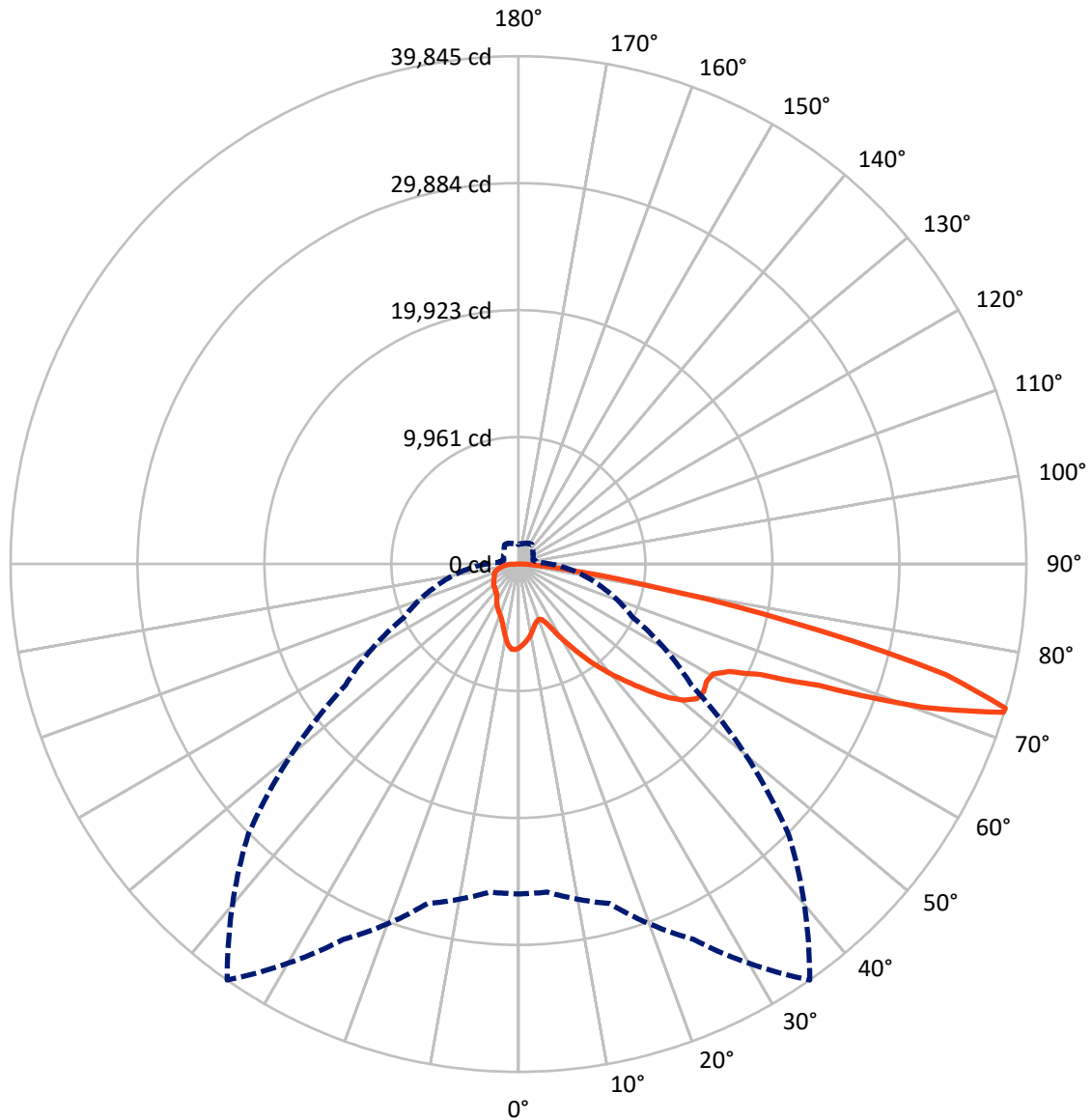
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8304.3	0.0	8304.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	35235.7	0.0	35235.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	43539.9	0.0	43539.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.9	1.4
10°-20°	1484.8	3.4
20°-30°	2400.4	5.5
30°-40°	4025.2	9.2
40°-50°	6204.6	14.3
50°-60°	8324.1	19.1
60°-70°	11089.4	25.5
70°-80°	8457.9	19.4
80°-90°	958.7	2.2
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°	43539.9	100.0
0°-180°	43539.9	100.0

Coefficient of Utilization



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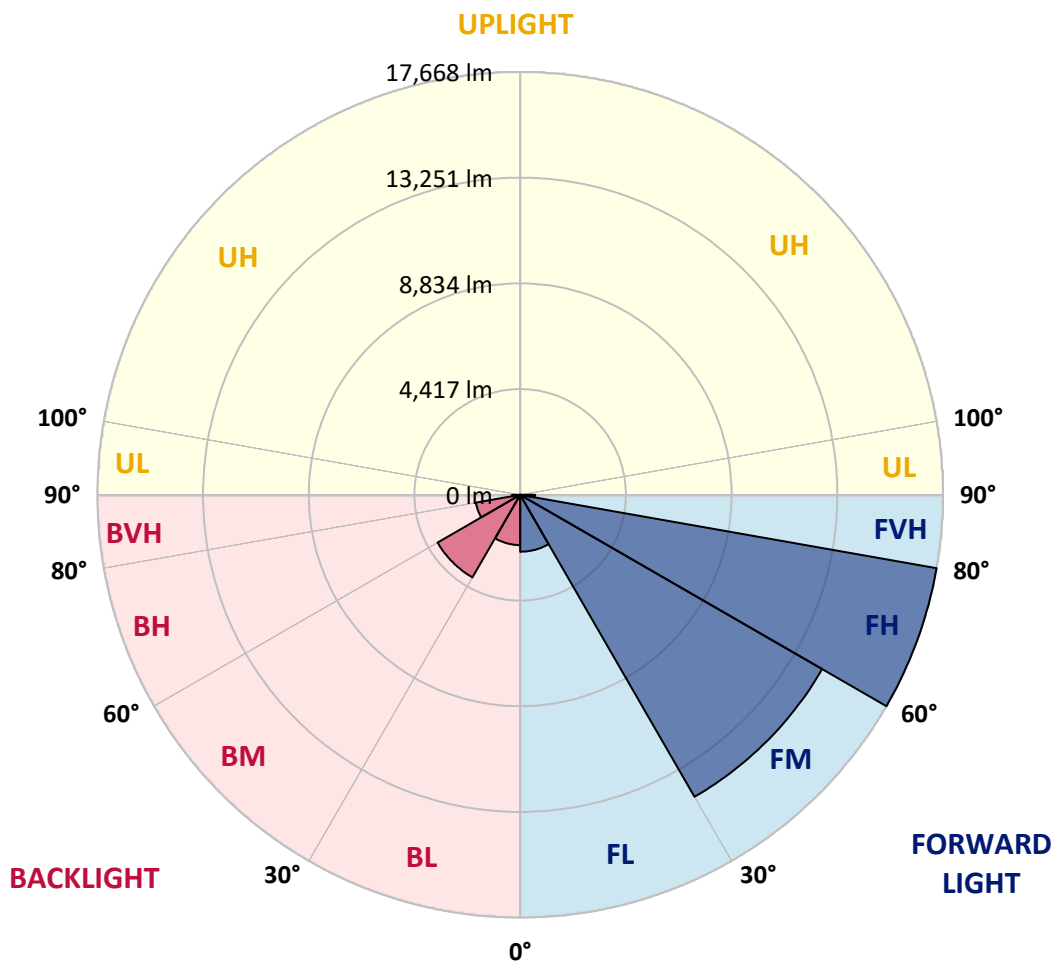
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2378.7	5.5			
FM	(30°-60°)	14568.7	33.5			
FH	(60°-80°)	17668.5	40.6			G5
FVH	(80°-90°)	619.7	1.4			G4/750
BL	(0°-30°)	2101.4	4.8	B3/2500		
BM	(30°-60°)	3985.1	9.2	B3/5000		
BH	(60°-80°)	1878.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	339.0	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6571.5	6571.5	6571.5	6571.5	6571.5	6571.5	6571.5	6571.5	6571.5	6571.5	6571.5
2.5°	6312.3	6324.8	6310.2	6329.0	6360.4	6393.8	6416.8	6450.3	6487.9	6540.2	6552.7
5°	6015.4	6034.2	6034.2	6067.6	6128.3	6182.6	6232.8	6287.2	6366.6	6456.5	6492.1
7.5°	5689.2	5699.6	5718.5	5768.6	5856.5	5933.8	6004.9	6092.7	6201.4	6320.6	6383.4
10°	5296.1	5310.7	5340.0	5411.1	5530.3	5636.9	5739.4	5860.6	5998.6	6147.1	6226.5
12.5°	5018.0	5013.8	5026.4	5078.7	5183.2	5312.8	5461.3	5616.0	5785.4	5958.9	6055.1
15°	4923.9	4900.9	4852.9	4840.3	4896.8	5026.4	5197.8	5388.1	5590.9	5800.0	5919.2
17.5°	4982.5	4942.8	4811.0	4714.9	4706.5	4804.8	4986.7	5199.9	5434.1	5689.2	5837.6
20°	5350.5	5256.4	4932.3	4708.6	4631.2	4679.3	4838.2	5064.0	5340.0	5678.7	5869.0
22.5°	6230.7	6092.7	5404.8	4988.8	4727.4	4668.9	4788.0	5028.5	5350.5	5808.4	6050.9
25°	7512.4	7315.9	6216.1	5687.1	5147.7	4836.1	4863.3	5110.0	5498.9	6109.5	6402.2
27.5°	8524.4	8396.8	7276.1	6671.9	5912.9	5287.7	5107.9	5314.9	5802.1	6602.9	6901.9
30°	9126.5	9049.2	8409.4	7788.4	6889.3	6007.0	5576.3	5699.6	6276.7	7286.6	7533.3
32.5°	9824.9	9778.9	9465.3	8894.5	7943.1	6952.1	6318.5	6274.6	6912.3	8108.3	8221.2
35°	10548.3	10533.7	10349.7	9939.9	9074.3	8198.2	7303.3	7006.4	7604.4	8961.4	8890.3
37.5°	11221.6	11196.5	11089.8	10851.5	10257.7	9536.3	8306.9	7757.0	8350.8	9776.8	9461.1
40°	12461.4	12264.9	11899.0	11719.2	11453.7	10663.3	9103.5	8457.5	9124.4	10554.6	9954.5
42.5°	13973.1	13653.2	12971.6	12724.9	12687.2	11551.9	9647.2	9137.0	9904.3	11326.1	10439.6
45°	15162.8	14861.7	14274.2	13962.7	14100.7	12356.9	10192.9	9862.5	10707.2	12135.3	10939.3
47.5°	16432.0	15959.4	15181.6	15275.7	15576.8	13118.0	10749.0	10642.4	11587.5	13040.6	11560.3
50°	16478.0	16116.2	15775.4	16337.9	16806.2	13818.4	11445.3	11459.9	12664.3	14180.1	12386.2
52.5°	15522.4	15445.1	15986.6	16871.0	17546.4	14372.5	12237.7	12304.6	14042.1	15489.0	13293.6
55°	15187.9	15100.1	15725.2	16684.9	17646.7	14830.4	13097.1	13218.3	15708.5	16868.9	14178.0
57.5°	16003.3	15808.9	15850.7	16597.1	17402.1	15332.2	14033.8	14278.4	17519.2	18075.4	14746.7
60°	18282.4	17866.3	17075.9	17057.1	17533.8	16084.9	15116.8	15415.8	19401.0	18652.4	14525.1
62.5°	21479.3	21063.2	19582.9	18619.0	18547.9	17326.8	16446.6	16526.0	20488.2	17870.5	13172.3
65°	24939.6	24567.4	22913.6	21552.4	20895.9	19384.2	17991.7	17021.6	20132.8	15719.0	10805.5
67.5°	29140.1	28740.8	27319.0	26062.4	25431.0	22704.5	19076.9	16547.0	17876.7	12177.1	7767.5
70°	32077.8	31670.0	31109.7	32127.9	33673.1	27494.6	19217.0	14617.1	13352.1	8093.7	4675.1
72.5°	28245.2	28055.0	29077.4	33365.7	39801.3	30400.9	17370.7	10642.4	7754.9	4296.7	2705.6
73°	25878.4	25836.6	27580.3	32498.0	39845.2	29953.5	16561.6	9891.8	6651.0	3801.2	2473.5
75°	11685.7	12022.4	15844.4	24822.5	34618.1	24682.4	11656.5	5674.6	3757.2	2626.1	1867.1
77.5°	2808.0	2925.1	4957.4	11788.2	21861.9	14709.1	5281.5	2805.9	2402.4	1854.6	1363.2
80°	1196.0	1235.7	1908.9	4355.2	10293.2	5923.4	2433.7	1879.7	1662.2	1294.2	955.5
82.5°	664.9	706.7	1083.1	1975.8	4154.5	2019.8	1484.5	1308.9	1093.5	779.9	621.0
85°	376.4	399.4	633.5	1104.0	1760.5	811.2	888.6	869.8	616.8	401.4	305.3
87.5°	177.7	192.4	305.3	512.3	690.0	317.8	451.6	497.6	386.8	244.6	158.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6571.5	6571.5	6571.5	6571.5	6571.5	6571.5	6571.5	6571.5	6571.5	6571.5
2.5°	6567.3	6605.0	6648.9	6671.9	6692.8	6717.9	6743.0	6743.0	6747.2	6749.2
5°	6521.3	6598.7	6667.7	6697.0	6703.3	6703.3	6697.0	6663.5	6634.3	6646.8
7.5°	6425.2	6538.1	6596.6	6586.2	6506.7	6414.7	6337.4	6243.3	6195.2	6186.8
10°	6287.2	6416.8	6427.3	6322.7	6126.2	5929.6	5766.6	5607.6	5532.4	5513.6
12.5°	6134.5	6253.7	6186.8	5971.5	5655.7	5369.3	5162.3	5001.3	4930.2	4911.4
15°	6011.2	6092.7	5923.4	5584.6	5187.4	4884.2	4712.8	4593.6	4543.4	4528.8
17.5°	5946.4	5963.1	5653.6	5195.8	4773.4	4520.4	4413.8	4357.3	4338.5	4328.0
20°	5977.7	5860.6	5396.5	4834.0	4434.7	4257.0	4231.9	4217.2	4213.1	4206.8
22.5°	6134.5	5829.3	5160.2	4491.1	4137.8	4060.4	4081.3	4079.2	4075.1	4070.9
25°	6414.7	5856.5	4930.2	4165.0	3889.0	3872.2	3909.9	3909.9	3893.2	3893.2
27.5°	6784.8	5912.9	4673.0	3855.5	3663.2	3665.3	3694.5	3686.2	3667.3	3654.8
30°	7236.4	5948.5	4372.0	3577.4	3452.0	3443.6	3452.0	3416.4	3360.0	3355.8
32.5°	7698.5	5904.5	4022.8	3330.7	3228.3	3209.4	3203.2	3153.0	3088.2	3069.4
35°	8116.7	5743.6	3667.3	3134.2	3015.0	2973.2	3002.5	2985.7	2927.2	2912.5
37.5°	8421.9	5444.6	3347.4	2960.6	2862.4	2851.9	2870.7	2877.0	2808.0	2793.4
40°	8626.8	5038.9	3073.5	2814.3	2833.1	2793.4	2730.6	2686.7	2665.8	2659.6
42.5°	8792.0	4616.6	2843.5	2745.3	2839.4	2724.4	2588.5	2517.4	2555.0	2571.7
45°	8982.3	4204.7	2651.2	2659.6	2808.0	2644.9	2490.2	2421.2	2435.8	2440.0
47.5°	9243.6	3702.9	2444.2	2521.6	2703.5	2590.6	2429.6	2331.3	2262.3	2230.9
50°	9605.3	3109.1	2228.8	2366.8	2601.0	2550.8	2335.5	2230.9	2103.4	2074.1
52.5°	9856.2	2555.0	2051.1	2237.2	2509.0	2471.4	2260.2	2124.3	1990.5	1965.4
55°	9720.3	2122.2	1896.4	2092.9	2387.7	2373.1	2197.5	2015.6	1911.0	1890.1
57.5°	9040.8	1848.3	1777.2	1957.0	2239.3	2289.5	2113.8	1923.6	1848.3	1833.7
60°	7744.5	1676.9	1701.9	1865.0	2118.0	2205.8	2030.2	1873.4	1823.2	1812.8
62.5°	6009.1	1561.9	1645.5	1798.1	2023.9	2147.3	1984.2	1867.1	1848.3	1835.8
65°	4305.1	1469.9	1584.9	1731.2	1938.2	2092.9	1967.5	1858.8	1862.9	1852.5
67.5°	2925.1	1388.3	1511.7	1655.9	1854.6	2044.8	1944.5	1829.5	1881.8	1869.2
70°	2046.9	1308.9	1426.0	1559.8	1750.0	1977.9	1902.7	1785.6	1781.4	1731.2
72.5°	1597.4	1204.3	1308.9	1426.0	1616.2	1883.9	1819.0	1687.3	1618.3	1566.0
73°	1524.2	1179.2	1279.6	1396.7	1587.0	1860.9	1796.0	1660.1	1582.8	1534.7
75°	1260.8	1070.5	1162.5	1267.1	1461.5	1752.1	1683.1	1536.8	1438.5	1409.2
77.5°	991.1	915.8	1003.6	1097.7	1288.0	1593.2	1515.9	1375.8	1321.4	1296.3
80°	733.9	759.0	836.3	920.0	1116.5	1423.9	1354.9	1214.8	1457.3	1396.7
82.5°	516.4	575.0	646.1	721.3	936.7	1258.7	1175.1	1030.8	1066.3	886.5
85°	305.3	376.4	443.3	508.1	675.3	1043.3	970.2	821.7	673.3	641.9
87.5°	177.7	209.1	227.9	294.8	464.2	786.2	683.7	608.4	349.2	236.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)