

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: P478018

Luminaire Tested: **IFLD-S-SA6D-722-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478018
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-722-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

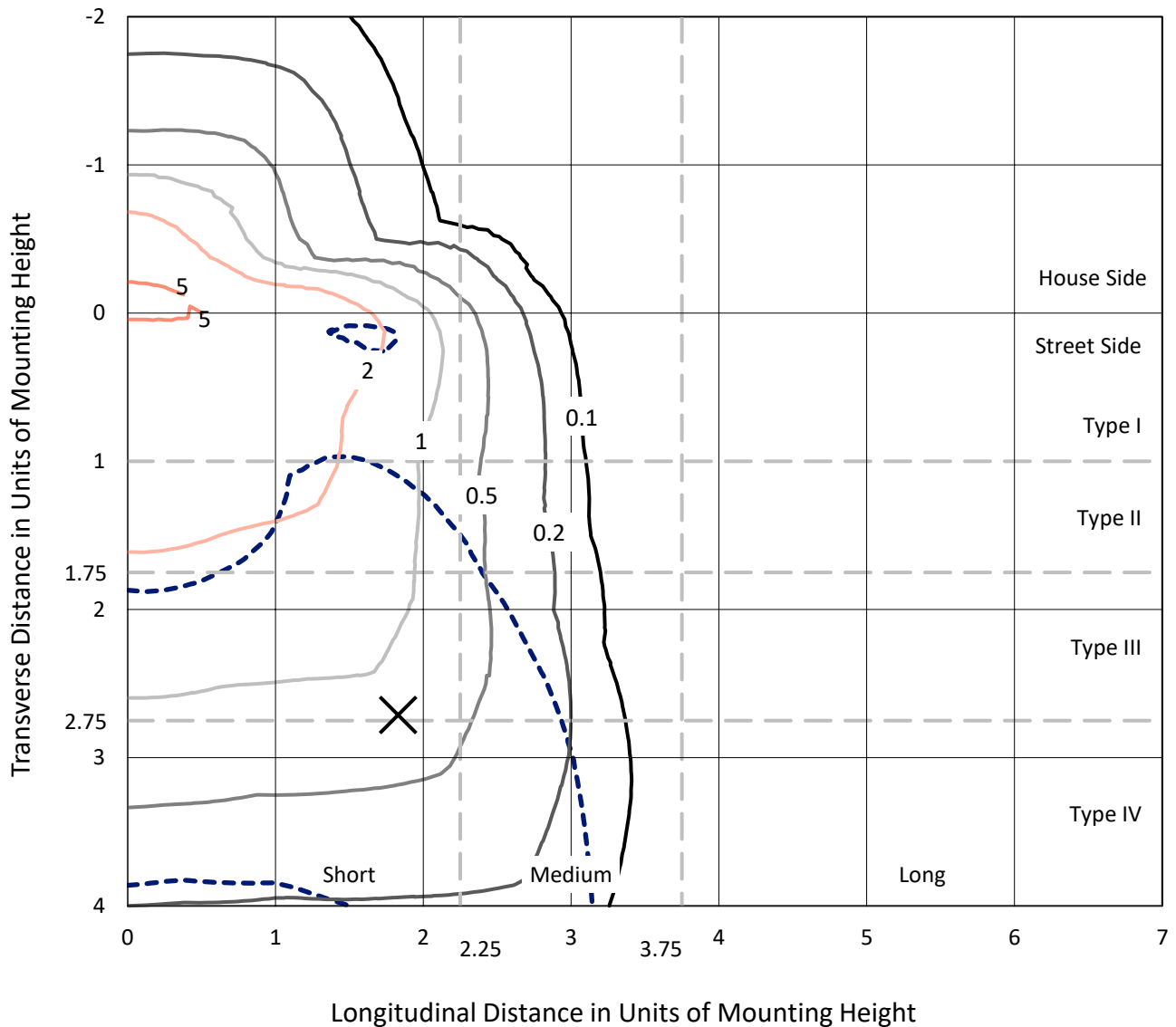
Lumens per Lamp: N/A
Luminaire Lumens: 34503.5 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
Input Voltage (V): 120
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

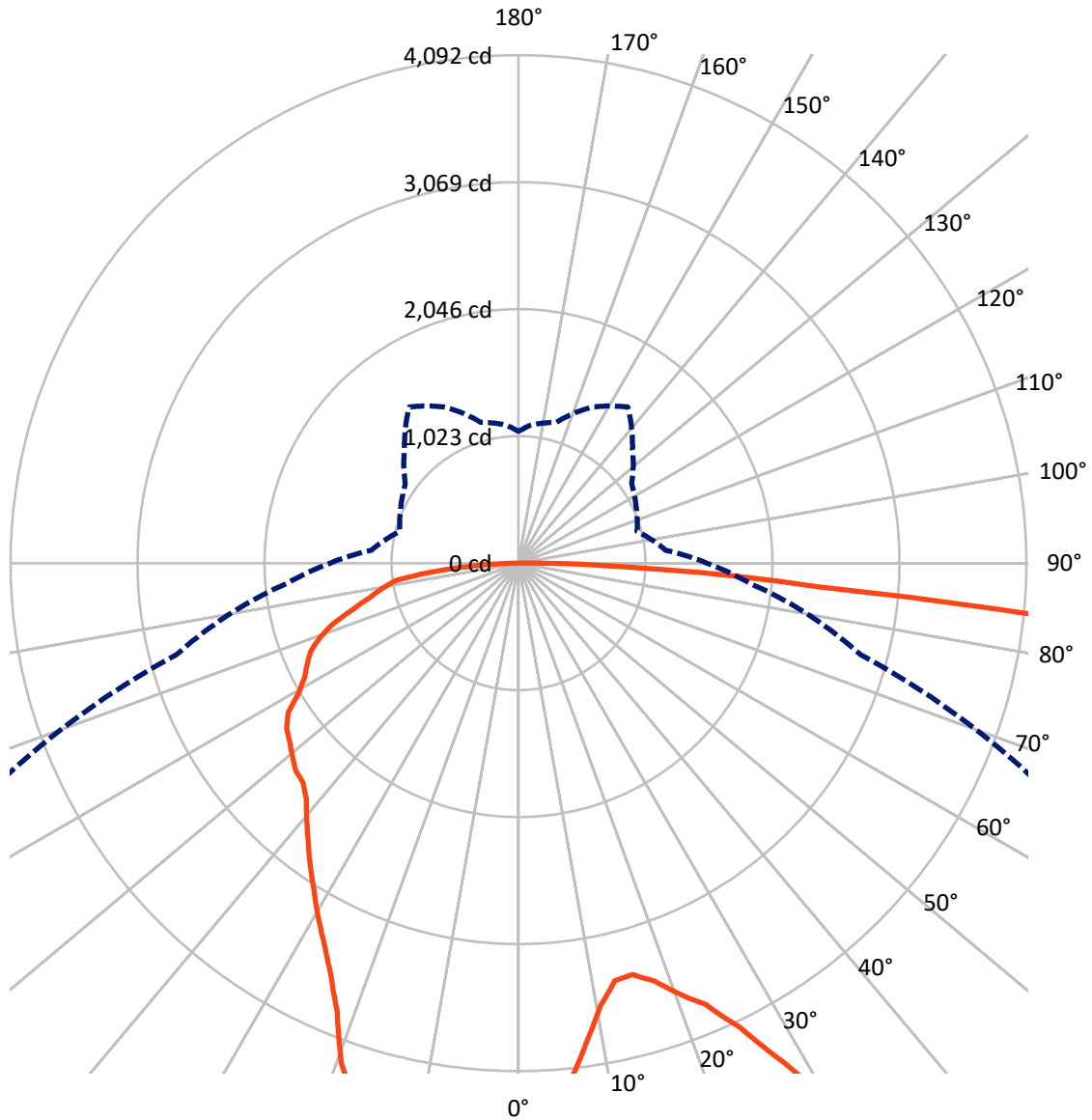
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7453.2	0.0	7453.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	27050.4	0.0	27050.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	34503.5	0.0	34503.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.6	1.3
10°-20°	1277.7	3.7
20°-30°	2102.9	6.1
30°-40°	3144.9	9.1
40°-50°	4662.1	13.5
50°-60°	6718.6	19.5
60°-70°	8573.8	24.8
70°-80°	6671.9	19.3
80°-90°	895.1	2.6
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°	34503.5	100.0
0°-180°	34503.5	100.0

Coefficient of Utilization



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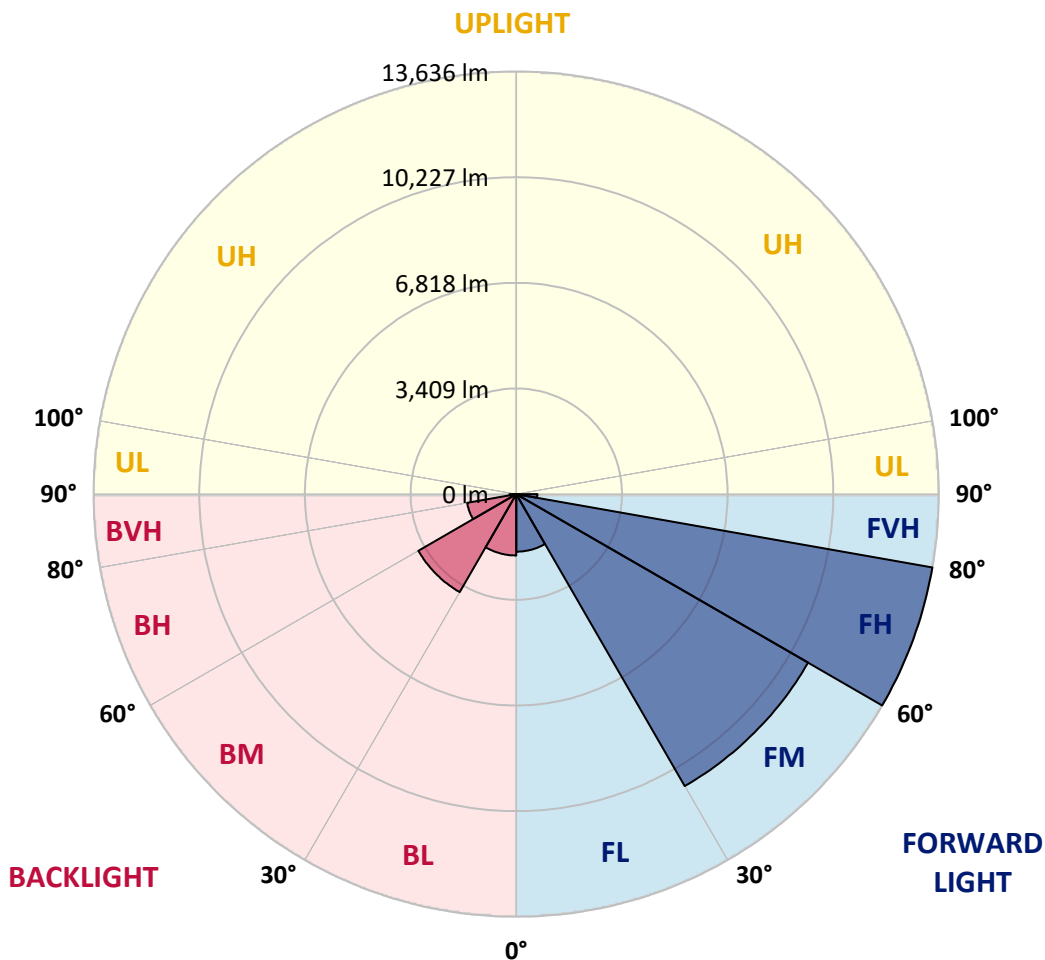
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1856.9	5.4			
FM (30°-60°)	10875.7	31.5			
FH (60°-80°)	13636.4	39.5			G5
FVH (80°-90°)	681.3	2.0			G4/750
BL (0°-30°)	1980.3	5.7	B3/2500		
BM (30°-60°)	3649.9	10.6	B3/5000		
BH (60°-80°)	1609.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	213.8	0.6			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4946.6	4946.6	4946.6	4946.6	4946.6	4946.6	4946.6	4946.6	4946.6	4946.6	4946.6
2.5°	4432.3	4446.9	4494.3	4505.2	4556.3	4527.1	4589.1	4698.6	4760.6	4851.8	4961.2
5°	4082.1	4020.0	4049.2	4162.3	4220.7	4235.3	4300.9	4487.0	4603.7	4738.7	4943.0
7.5°	3669.8	3658.9	3717.3	3790.2	3907.0	3917.9	4063.8	4228.0	4468.7	4767.9	5008.6
10°	3388.9	3436.4	3469.2	3545.8	3626.1	3626.1	3812.1	4096.7	4370.2	4658.4	5023.2
12.5°	3374.4	3345.2	3352.5	3392.6	3451.0	3523.9	3699.0	3954.4	4300.9	4636.5	5085.2
15°	3421.8	3432.7	3367.1	3418.1	3440.0	3465.6	3658.9	3947.1	4257.2	4713.2	5191.0
17.5°	3673.5	3611.5	3509.3	3461.9	3538.5	3538.5	3669.8	3896.0	4264.5	4753.3	5344.3
20°	3870.5	3870.5	3702.7	3651.6	3706.3	3695.4	3786.6	3954.4	4300.9	4833.5	5515.7
22.5°	4202.4	4249.9	3972.6	3866.8	3863.2	3892.4	3972.6	4114.9	4403.1	4946.6	5679.9
25°	4680.3	4691.3	4370.2	4260.8	4144.1	4191.5	4206.1	4348.4	4494.3	5078.0	5865.9
27.5°	5212.9	5205.6	4910.1	4636.5	4559.9	4570.9	4490.6	4585.5	4629.3	5118.1	6132.2
30°	5803.9	5738.2	5515.7	5129.0	5067.0	4997.7	4822.6	4818.9	4910.1	5344.3	6500.7
32.5°	6190.6	6106.7	5953.5	5676.2	5504.8	5512.1	5234.8	5231.2	5150.9	5592.3	6821.7
35°	6570.0	6442.3	6402.2	6117.6	5946.2	5964.4	5741.9	5712.7	5566.8	5968.1	7350.6
37.5°	7026.0	6912.9	6974.9	6759.7	6548.1	6460.5	6358.4	6321.9	6132.2	6497.0	8072.9
40°	7529.4	7492.9	7452.8	7347.0	7219.3	7226.6	7117.2	7080.7	6799.8	7135.4	8766.0
42.5°	8207.9	8069.3	7861.3	7930.7	7996.3	8065.6	8029.1	7934.3	7642.5	7784.7	9539.4
45°	8839.0	8656.6	8273.6	8295.4	8565.4	8620.1	9061.5	9050.6	8463.3	8609.2	10418.6
47.5°	9265.8	9181.9	8952.1	8926.5	9313.2	9309.6	10104.8	10104.8	9327.8	9430.0	11363.4
50°	9900.5	9681.7	9583.2	9710.9	9907.8	10042.8	11170.0	11239.3	10177.8	10287.2	12600.0
52.5°	10644.7	10371.1	10123.1	10451.4	10801.6	10889.1	12224.3	12195.1	10830.8	11283.1	14048.3
55°	11261.2	11122.6	10951.2	11140.8	11713.6	11823.0	13282.2	13012.3	11483.8	12107.6	14745.0
57.5°	11979.9	12063.8	12100.3	12052.8	12735.0	12906.5	14489.7	13716.3	12045.5	12662.0	15153.6
60°	13063.3	13114.4	13161.8	13274.9	13997.2	14238.0	15445.4	14599.1	12399.4	12983.1	15186.4
62.5°	14712.2	14515.2	14621.0	15011.3	15591.4	15864.9	16853.5	15219.3	12669.3	13176.4	14113.9
65°	16598.2	16331.9	16222.4	16725.9	18228.8	18009.9	18611.9	15682.6	12279.0	12454.1	11968.9
67.5°	18509.7	18538.9	18258.0	19268.5	21110.7	21110.7	20246.1	15905.1	11221.1	10093.9	8393.9
70°	20027.3	20118.5	20271.7	22230.6	25149.0	25590.4	22270.8	14993.1	9065.2	6719.5	4589.1
72.5°	20005.4	19731.8	20516.1	24123.9	28818.8	28450.4	22693.9	11855.8	5658.0	3290.5	2104.9
73°	19556.7	19326.9	20184.1	24105.7	28968.4	28621.8	22383.8	10929.3	4990.4	2852.7	1871.4
75°	15970.7	15554.9	17014.1	21833.0	26801.5	27067.8	19016.8	7128.1	2736.0	1758.3	1316.9
77.5°	7281.3	7463.7	9364.3	14646.5	20654.7	20968.4	12501.5	3082.5	1499.3	1233.0	970.4
80°	2338.3	2455.1	3644.3	7281.3	12946.6	13512.0	5778.4	1400.8	1068.9	944.8	725.9
82.5°	893.7	890.1	1528.5	3027.8	6135.9	6497.0	2112.2	853.6	795.3	696.8	514.4
85°	313.7	328.3	576.4	1196.5	2414.9	2528.0	733.2	474.2	550.8	466.9	295.5
87.5°	109.4	113.1	204.3	434.1	831.7	879.2	204.3	189.7	273.6	269.9	149.6
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°	4946.6	4946.6	4946.6	4946.6	4946.6	4946.6	4946.6	4946.6	4946.6	4946.6	4946.6
2.5°	4997.7	5030.5	5041.5	5172.8	5172.8	5172.8	5223.9	5223.9	5209.3	5172.8	5260.3
5°	5019.6	5078.0	5191.0	5304.1	5333.3	5358.8	5428.2	5369.8	5391.7	5355.2	5388.0
7.5°	5081.6	5161.9	5373.4	5442.7	5395.3	5450.0	5377.1	5337.0	5296.8	5311.4	5260.3
10°	5187.4	5289.5	5388.0	5515.7	5424.5	5369.8	5220.2	5183.7	5056.1	5012.3	5052.4
12.5°	5318.7	5442.7	5610.6	5563.1	5388.0	5231.2	5070.7	4917.4	4840.8	4731.4	4760.6
15°	5450.0	5592.3	5617.8	5537.6	5318.7	5121.7	4829.9	4614.7	4538.1	4439.6	4490.6
17.5°	5592.3	5727.3	5683.5	5475.6	5180.1	4881.0	4549.0	4337.4	4176.9	4114.9	4114.9
20°	5803.9	5869.6	5800.2	5373.4	5012.3	4618.3	4297.3	4056.5	3896.0	3870.5	3830.4
22.5°	5968.1	6073.8	5763.8	5223.9	4767.9	4275.4	3907.0	3815.8	3768.3	3728.2	3677.1
25°	6179.6	6176.0	5698.1	5085.2	4348.4	3866.8	3644.3	3637.0	3615.1	3600.5	3669.8
27.5°	6380.3	6296.4	5621.5	4742.3	3914.3	3556.8	3436.4	3516.6	3549.5	3527.6	3556.8
30°	6697.6	6559.0	5512.1	4377.5	3531.2	3243.0	3264.9	3374.4	3429.1	3461.9	3418.1
32.5°	7033.3	6821.7	5285.9	3998.2	3192.0	3046.0	3097.1	3210.2	3275.9	3312.3	3352.5
35°	7518.4	7026.0	5056.1	3502.0	2947.5	2925.7	2954.8	3016.9	3111.7	3137.2	3148.2
37.5°	8116.7	7336.0	4746.0	3104.4	2757.9	2783.4	2812.6	2834.5	2838.1	2885.5	2867.3
40°	8715.0	7598.7	4293.6	2725.0	2560.9	2699.5	2684.9	2644.8	2611.9	2568.2	2557.2
42.5°	9240.3	7828.5	3790.2	2404.0	2385.8	2611.9	2564.5	2462.4	2385.8	2352.9	2298.2
45°	9831.2	8153.2	3283.2	2203.4	2250.8	2506.1	2491.6	2334.7	2236.2	2119.5	2104.9
47.5°	10597.3	8492.4	2798.0	1995.4	2123.1	2466.0	2473.3	2272.7	2130.4	1973.5	1951.7
50°	11578.6	8981.3	2429.5	1907.9	2046.5	2407.6	2418.6	2188.8	2002.7	1842.2	1827.6
52.5°	12519.8	9481.0	2123.1	1772.9	1995.4	2338.3	2363.9	2112.2	1896.9	1696.3	1707.2
55°	12994.0	9298.6	1860.5	1674.4	1878.7	2225.3	2320.1	2057.4	1736.4	1597.8	1594.2
57.5°	13099.8	8849.9	1652.5	1572.3	1780.2	2104.9	2247.1	1893.3	1663.5	1546.7	1532.1
60°	12753.2	8065.6	1488.4	1462.8	1656.2	1980.8	2079.3	1805.7	1590.5	1495.7	1473.8
62.5°	11899.6	7252.1	1375.3	1411.8	1550.4	1845.9	1973.5	1743.7	1521.2	1455.5	1408.1
65°	9758.3	5964.4	1284.1	1313.3	1440.9	1714.5	1907.9	1674.4	1459.2	1397.2	1393.5
67.5°	6759.7	4111.2	1211.1	1265.8	1353.4	1619.7	1842.2	1597.8	1378.9	1357.0	1327.9
70°	3461.9	2192.4	1116.3	1160.0	1258.5	1499.3	1725.5	1517.5	1295.0	1291.4	1254.9
72.5°	1754.7	1284.1	1006.8	1072.5	1141.8	1342.4	1579.6	1411.8	1189.2	1149.1	1090.7
73°	1517.5	1189.2	988.6	1047.0	1112.6	1298.7	1535.8	1386.2	1174.6	1116.3	1061.6
75°	1105.3	937.5	886.5	944.8	995.9	1171.0	1389.9	1269.5	1079.8	1017.8	966.7
77.5°	828.1	722.3	736.9	802.5	846.3	1010.5	1236.7	1149.1	977.7	893.7	871.9
80°	609.2	550.8	609.2	671.2	704.1	890.1	1127.2	995.9	824.4	729.6	711.4
82.5°	434.1	401.3	470.6	510.7	525.3	736.9	1014.1	795.3	623.8	499.8	459.6
85°	248.1	244.4	317.4	313.7	324.7	430.5	667.6	529.0	401.3	306.4	299.1
87.5°	109.4	120.4	160.5	127.7	135.0	204.3	284.5	197.0	164.2	91.2	69.3
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)