

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: P478499

Luminaire Tested: **IFLD-L-SA8B-730-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478499
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-730-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

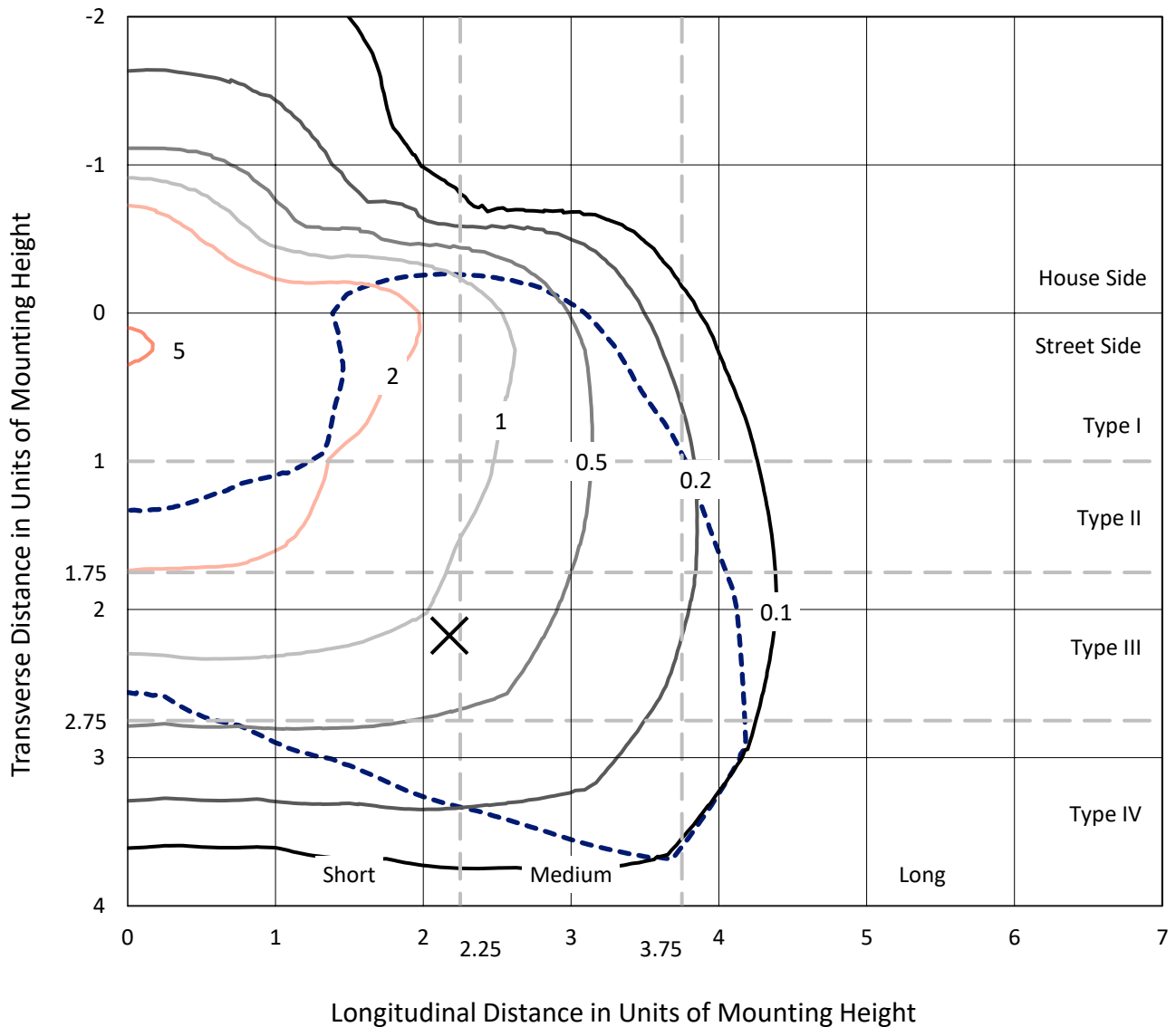
Lumens per Lamp: N/A
Luminaire Lumens: 37459.7 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

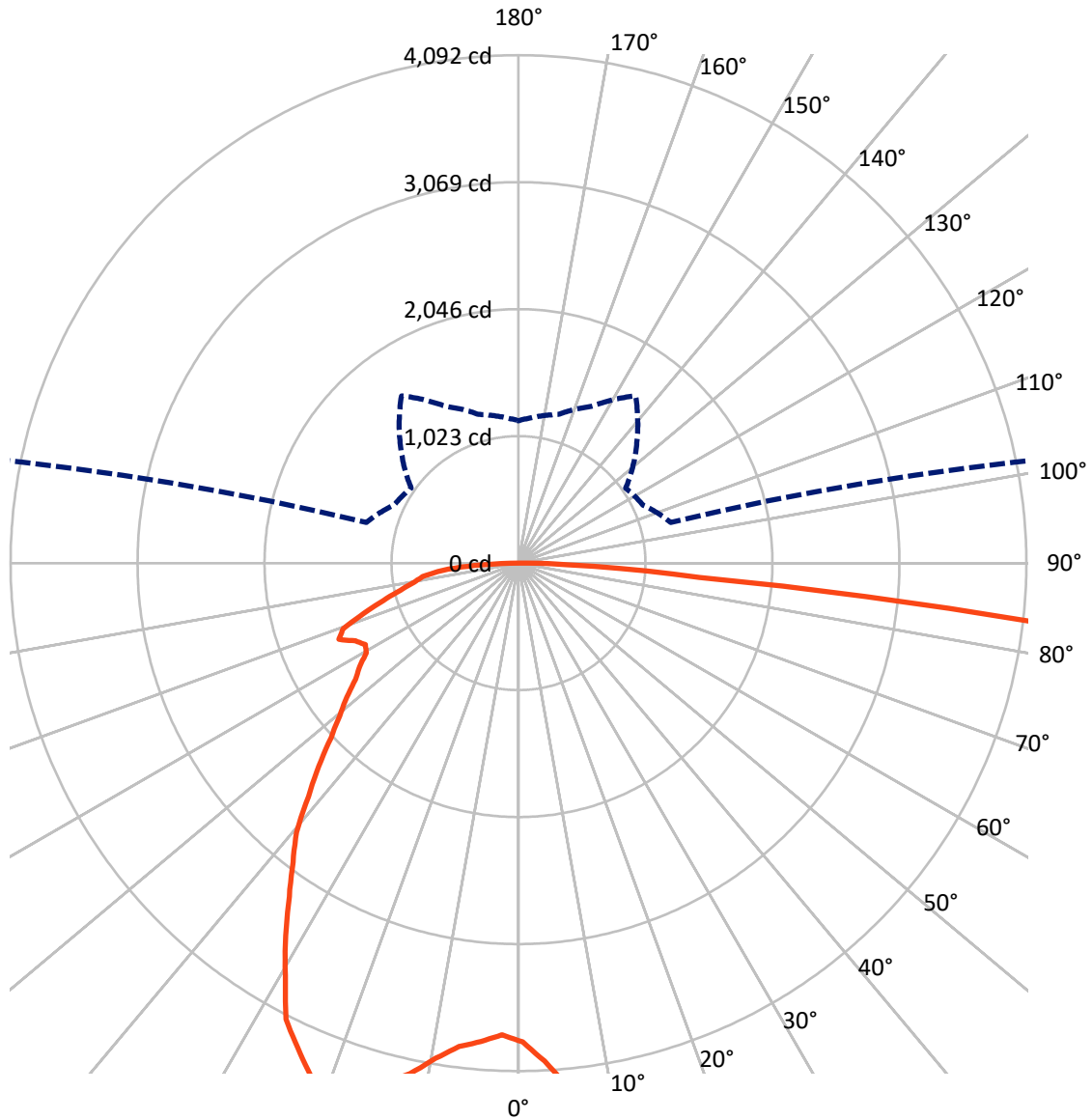
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8338.8	0.0	8338.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	29121.0	0.0	29121.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	37459.7	0.0	37459.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.7	1.1
10°-20°	1313.4	3.5
20°-30°	2217.9	5.9
30°-40°	3069.2	8.2
40°-50°	4390.2	11.7
50°-60°	7080.8	18.9
60°-70°	10443.2	27.9
70°-80°	7583.6	20.2
80°-90°	966.7	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°	37459.7	100.0
0°-180°	37459.7	100.0



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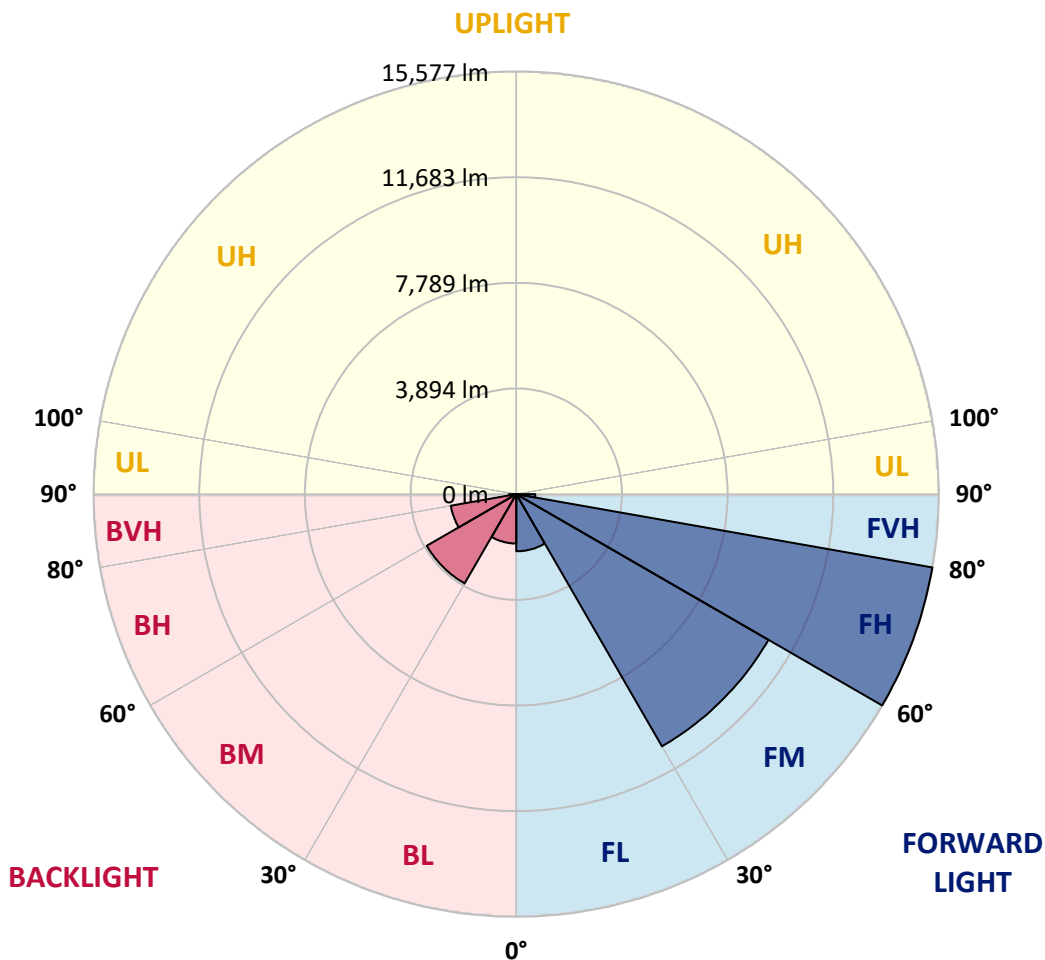
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2105.3	5.6			
FM (30°-60°)	10734.6	28.7			
FH (60°-80°)	15577.4	41.6			G5
FVH (80°-90°)	703.6	1.9			G4/750
BL (0°-30°)	1820.7	4.9	B3/2500		
BM (30°-60°)	3805.6	10.2	B3/5000		
BH (60°-80°)	2449.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	263.1	0.7			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°	44°	45°	55°	65°	75°	85°
0°	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7
2.5°	4063.7	4087.9	4063.7	4059.6	4019.3	3991.0	4015.2	3978.9	3938.5	3922.3	3885.9
5°	4435.3	4439.4	4394.9	4399.0	4314.1	4225.3	4241.4	4132.4	4015.2	3970.8	3898.1
7.5°	4815.0	4770.6	4706.0	4685.8	4552.5	4455.5	4443.4	4346.4	4164.7	4063.7	3962.7
10°	5061.4	5077.6	4972.6	4883.7	4770.6	4653.4	4649.4	4467.6	4362.6	4213.1	4083.9
12.5°	5279.6	5283.6	5194.7	5053.3	4912.0	4766.5	4786.7	4706.0	4528.2	4386.8	4257.6
15°	5449.2	5425.0	5328.0	5198.8	5049.3	4936.2	4924.1	4855.4	4706.0	4588.8	4374.7
17.5°	5497.7	5485.6	5388.6	5251.3	5105.9	5021.0	5053.3	4940.2	4879.7	4774.6	4568.6
20°	5404.8	5376.5	5360.3	5206.8	5101.8	5093.7	5065.5	5089.7	4988.7	4891.8	4742.3
22.5°	5235.1	5223.0	5214.9	5093.7	5045.3	5081.6	5130.1	5166.5	5150.3	5057.4	4887.7
25°	5061.4	5118.0	5065.5	5008.9	5077.6	5170.5	5158.4	5275.5	5275.5	5247.2	5105.9
27.5°	5182.6	5146.3	5105.9	5077.6	5101.8	5247.2	5239.2	5380.5	5433.1	5380.5	5219.0
30°	5485.6	5449.2	5332.1	5206.8	5174.5	5332.1	5372.5	5497.7	5521.9	5392.7	5255.3
32.5°	6055.1	6034.9	5849.1	5481.5	5283.6	5372.5	5392.7	5534.0	5513.8	5433.1	5376.5
35°	6899.4	6830.7	6572.2	5950.1	5513.8	5425.0	5372.5	5485.6	5562.3	5521.9	5469.4
37.5°	7824.4	7747.7	7428.5	6640.9	5929.9	5566.4	5526.0	5618.9	5707.7	5687.5	5578.5
40°	8709.1	8709.1	8422.2	7505.3	6547.9	5909.7	5917.8	5812.8	5893.6	5857.2	5877.4
42.5°	9581.6	9549.3	9432.1	8519.2	7210.4	6483.3	6354.1	6091.5	6236.9	6224.8	6253.1
45°	10466.2	10442.0	10409.7	9464.4	8159.7	7258.9	7190.2	6717.6	6850.9	6794.4	6915.5
47.5°	11173.1	11201.4	11201.4	10518.7	9173.6	8293.0	8192.0	7444.7	7699.2	7727.5	7755.7
50°	11775.0	11787.1	11775.0	11524.5	10304.6	9476.5	9270.5	8511.1	8765.6	8987.8	9246.3
52.5°	12607.1	12623.3	12566.7	12469.8	11839.6	10720.7	10490.4	9646.2	10167.3	10401.6	10866.1
55°	13633.1	13512.0	13406.9	13479.6	13314.0	12090.1	11851.7	10817.6	11601.3	11912.3	12841.4
57.5°	13823.0	13928.0	14194.6	14772.3	15010.6	13423.1	13285.7	12255.7	13221.1	13491.8	15042.9
60°	14493.5	14319.8	14974.2	16226.5	16493.1	15160.0	15018.7	13831.1	14832.9	15115.6	17074.7
62.5°	14933.8	14925.8	15895.2	17381.7	17987.7	16961.6	16674.8	15879.1	16573.9	16848.5	19288.4
65°	14804.6	14921.7	16642.5	18060.4	19235.9	19009.6	18844.0	17640.3	18557.2	18533.0	20730.4
67.5°	13625.1	13956.3	16169.9	18549.1	21094.0	21506.0	21453.5	20116.5	20169.0	19656.0	21372.7
70°	11989.1	11876.0	14170.4	18040.2	22023.1	24466.9	24454.8	21958.4	21619.1	19902.4	19530.7
72°	9209.9	9084.7	10971.1	15491.3	21534.3	25650.5	26014.0	23234.9	21603.0	18880.4	16133.6
72.5°	8361.7	8252.6	10130.9	14582.4	20993.0	25957.5	25787.8	23283.4	21433.3	18399.7	15071.2
75°	3849.6	3724.4	5061.4	8927.2	16375.9	23000.6	23578.3	21788.8	18718.8	14647.0	9028.2
77.5°	1147.2	1110.8	1627.9	3603.2	9516.9	16945.5	17167.7	16440.6	13067.6	8022.3	3348.7
80°	638.2	642.3	840.2	1349.2	4184.9	9795.7	10595.5	10155.2	6410.6	2649.9	1114.9
82.5°	355.5	375.7	525.1	799.8	1922.8	4495.9	4839.3	4665.6	2318.6	1244.2	610.0
85°	185.8	193.9	274.7	428.2	1090.7	1421.9	1462.3	1567.3	1203.8	848.3	327.2
87.5°	72.7	72.7	101.0	177.7	403.9	440.3	395.9	480.7	690.7	549.4	161.6
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°	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7
2.5°	3918.3	3885.9	3881.9	3829.4	3845.6	3801.1	3805.2	3797.1	3801.1	3793.0	3772.8
5°	3898.1	3873.8	3805.2	3849.6	3809.2	3865.8	3910.2	3894.0	3906.1	3902.1	3906.1
7.5°	3926.3	3894.0	3885.9	3861.7	3898.1	3922.3	3958.7	4059.6	4051.6	4063.7	4087.9
10°	4011.2	3974.8	3950.6	3986.9	3966.7	4043.5	4083.9	4136.4	4229.3	4233.3	4184.9
12.5°	4176.8	4152.6	4104.1	4112.2	4180.8	4205.1	4229.3	4261.6	4322.2	4310.1	4354.5
15°	4366.6	4314.1	4285.9	4277.8	4293.9	4322.2	4318.2	4350.5	4382.8	4411.1	4399.0
17.5°	4504.0	4435.3	4443.4	4483.8	4479.7	4471.7	4419.2	4403.0	4419.2	4435.3	4427.2
20°	4645.4	4653.4	4592.9	4556.5	4540.3	4459.6	4419.2	4370.7	4322.2	4346.4	4382.8
22.5°	4823.1	4786.7	4697.9	4588.8	4508.0	4459.6	4334.3	4249.5	4249.5	4273.7	4261.6
25°	5025.1	4948.3	4794.8	4596.9	4495.9	4289.9	4201.0	4188.9	4156.6	4192.9	4209.1
27.5°	5182.6	5113.9	4903.9	4568.6	4289.9	4124.3	4071.8	4055.6	4108.1	4112.2	4176.8
30°	5247.2	5227.0	4920.0	4495.9	4079.8	3813.2	3780.9	3853.6	3910.2	3995.0	3999.1
32.5°	5332.1	5340.2	4944.3	4326.2	3805.2	3538.6	3490.1	3579.0	3740.5	3809.2	3861.7
35°	5473.5	5513.8	4924.1	4116.2	3514.3	3259.8	3251.8	3276.0	3433.5	3554.7	3623.4
37.5°	5719.9	5711.8	4920.0	3865.8	3284.1	3017.5	2952.8	2960.9	3065.9	3166.9	3154.8
40°	6051.1	6018.8	4907.9	3538.6	2985.2	2811.5	2702.4	2662.0	2653.9	2625.6	2633.7
42.5°	6503.5	6438.9	4903.9	3207.3	2714.5	2528.7	2451.9	2346.9	2270.2	2124.7	2132.8
45°	7133.7	7020.6	4798.9	2896.3	2447.9	2294.4	2177.3	2100.5	1934.9	1753.1	1753.1
47.5°	8107.2	7739.6	4802.9	2552.9	2189.4	2064.2	1983.4	1850.1	1672.3	1526.9	1510.8
50°	9541.2	8701.0	4665.6	2282.3	1979.3	1894.5	1809.7	1656.2	1486.5	1385.5	1397.6
52.5°	11391.2	10135.0	4661.5	2039.9	1813.7	1753.1	1660.2	1522.9	1397.6	1333.0	1308.8
55°	13596.8	12033.5	4806.9	1842.0	1644.1	1611.7	1571.3	1458.2	1337.1	1280.5	1276.5
57.5°	15854.8	13887.6	5041.2	1700.6	1498.6	1522.9	1494.6	1405.7	1308.8	1244.2	1236.1
60°	17862.4	15358.0	4568.6	1531.0	1369.4	1421.9	1462.3	1385.5	1333.0	1329.0	1300.7
62.5°	19377.2	15988.1	3473.9	1401.7	1300.7	1397.6	1506.7	1555.2	1531.0	1563.3	1567.3
65°	19930.6	15608.4	2391.4	1333.0	1248.2	1454.2	1696.6	1680.4	1539.0	1478.4	1510.8
67.5°	19155.1	14069.4	1773.3	1252.2	1211.8	1571.3	1805.6	1603.7	1389.6	1381.5	1357.3
70°	16472.9	11924.5	1446.1	1167.4	1151.2	1506.7	1757.2	1486.5	1308.8	1256.3	1232.0
72°	13124.2	9286.7	1268.4	1106.8	1054.3	1345.1	1644.1	1393.6	1240.1	1175.5	1147.2
72.5°	11981.0	8608.1	1244.2	1078.5	1034.1	1308.8	1587.5	1365.3	1224.0	1167.4	1123.0
75°	6572.2	4407.0	1094.7	989.7	872.5	1131.0	1470.4	1280.5	1155.3	1074.5	1066.4
77.5°	2443.9	1708.7	945.2	876.6	755.4	977.5	1337.1	1215.9	1050.3	949.3	929.1
80°	937.2	900.8	771.5	739.2	634.2	856.4	1232.0	1090.7	892.7	791.7	759.4
82.5°	569.6	525.1	585.7	577.6	484.7	779.6	1159.3	1022.0	791.7	642.3	622.1
85°	311.0	311.0	408.0	391.8	339.3	622.1	876.6	678.6	500.9	412.0	420.1
87.5°	137.3	161.6	218.1	206.0	185.8	351.4	428.2	359.5	250.4	169.7	181.8
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)