

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: P478343

Luminaire Tested: **IFLD-L-SA8B-830-U-T4FT**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P478343
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

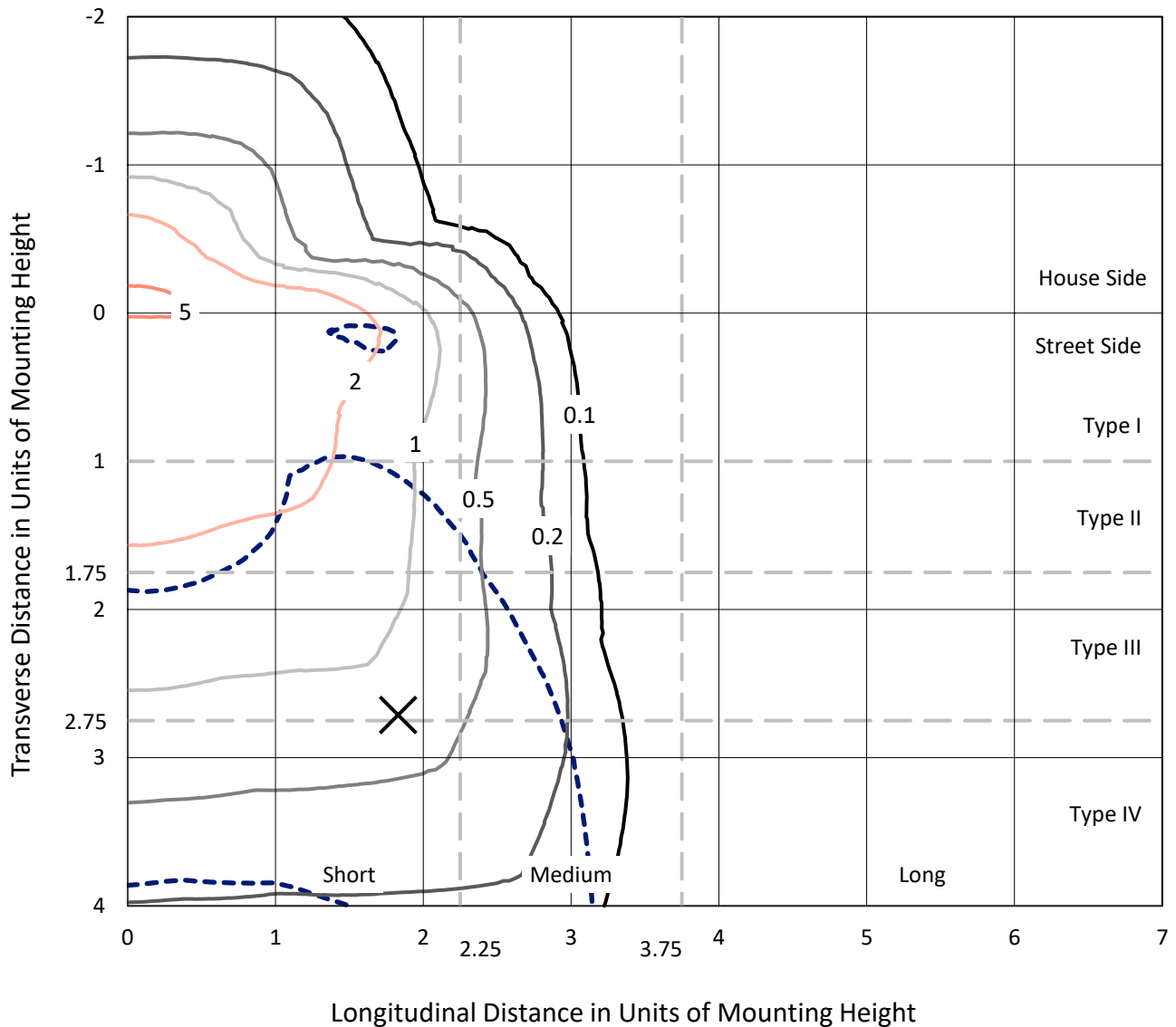
Lumens per Lamp: N/A
Luminaire Lumens: 33131.2 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

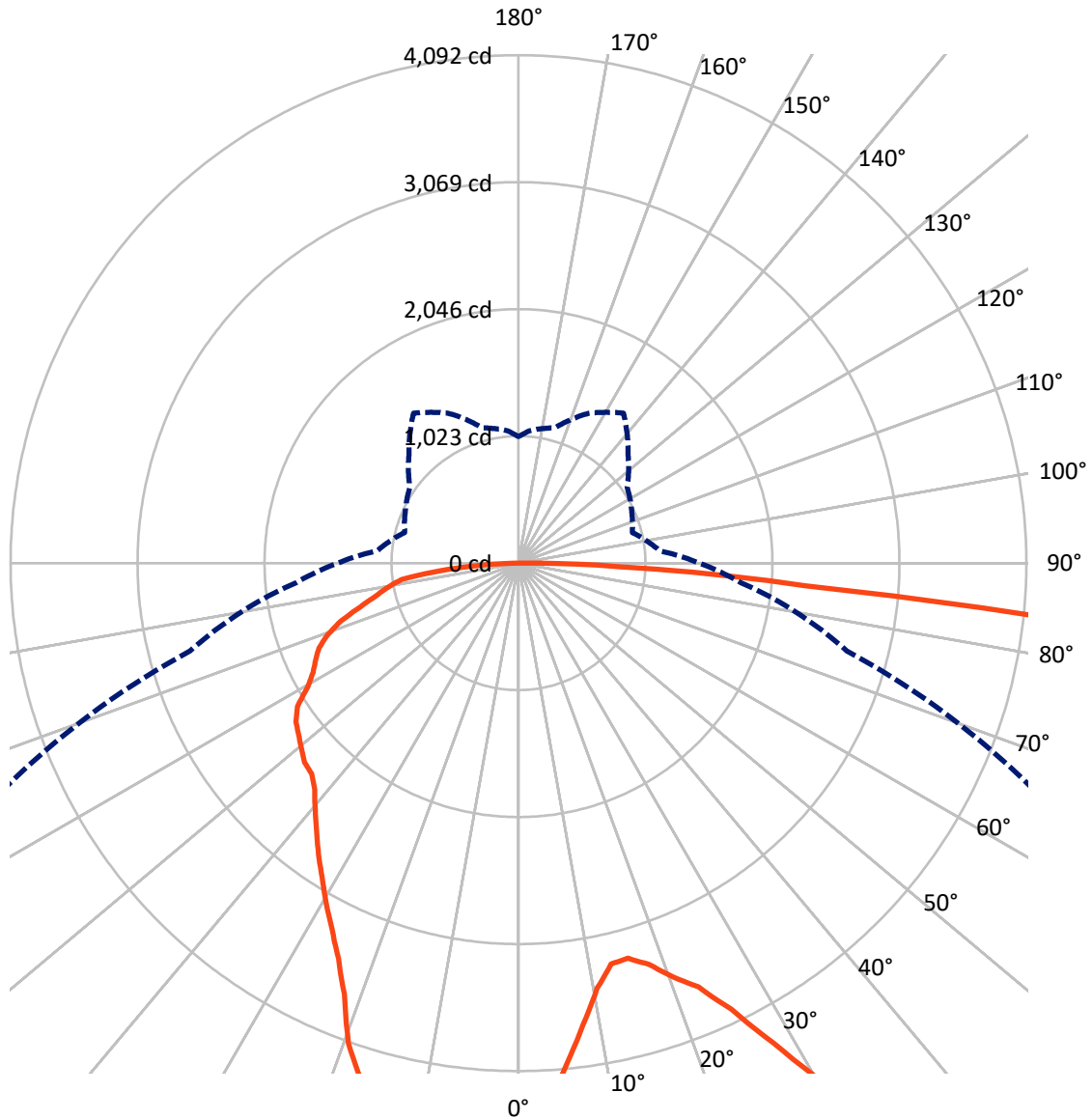
× Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7156.8	0.0	7156.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	25974.5	0.0	25974.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	33131.2	0.0	33131.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.4	1.3
10°-20°	1226.9	3.7
20°-30°	2019.3	6.1
30°-40°	3019.8	9.1
40°-50°	4476.7	13.5
50°-60°	6451.4	19.5
60°-70°	8232.8	24.8
70°-80°	6406.5	19.3
80°-90°	859.5	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°	33131.2	100.0
0°-180°	33131.2	100.0

Coefficient of Utilization



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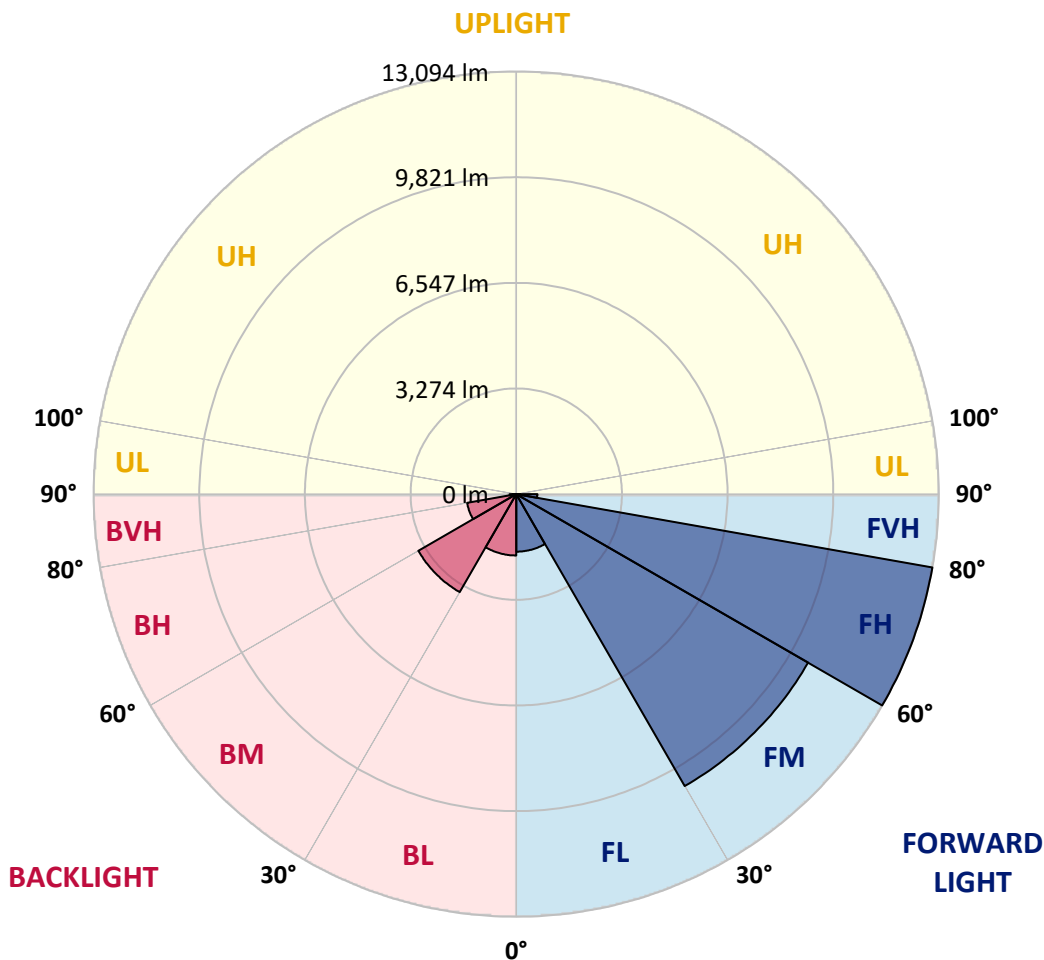
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1783.0	5.4			
FM (30°-60°)	10443.2	31.5			
FH (60°-80°)	13094.1	39.5			G5
FVH (80°-90°)	654.2	2.0			G4/750
BL (0°-30°)	1901.5	5.7	B3/2500		
BM (30°-60°)	3504.7	10.6	B3/5000		
BH (60°-80°)	1545.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	205.3	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°	4749.9	4749.9	4749.9	4749.9	4749.9	4749.9	4749.9	4749.9	4749.9	4749.9	4749.9
2.5°	4256.0	4270.0	4315.5	4326.0	4375.1	4347.0	4406.6	4511.7	4571.2	4658.8	4763.9
5°	3919.7	3860.2	3888.2	3996.8	4052.8	4066.8	4129.9	4308.5	4420.6	4550.2	4746.4
7.5°	3523.9	3513.4	3569.4	3639.5	3751.6	3762.1	3902.2	4059.8	4291.0	4578.2	4809.4
10°	3254.2	3299.7	3331.2	3404.8	3481.8	3481.8	3660.5	3933.7	4196.4	4473.2	4823.4
12.5°	3240.1	3212.1	3219.1	3257.7	3313.7	3383.8	3551.9	3797.1	4129.9	4452.1	4883.0
15°	3285.7	3296.2	3233.1	3282.2	3303.2	3327.7	3513.4	3790.1	4087.8	4525.7	4984.6
17.5°	3527.4	3467.8	3369.8	3324.2	3397.8	3397.8	3523.9	3741.1	4094.8	4564.2	5131.7
20°	3716.5	3716.5	3555.4	3506.4	3558.9	3548.4	3636.0	3797.1	4129.9	4641.3	5296.3
22.5°	4035.3	4080.8	3814.6	3713.0	3709.5	3737.6	3814.6	3951.2	4228.0	4749.9	5454.0
25°	4494.2	4504.7	4196.4	4091.3	3979.2	4024.8	4038.8	4175.4	4315.5	4876.0	5632.6
27.5°	5005.6	4998.6	4714.8	4452.1	4378.6	4389.1	4312.0	4403.1	4445.1	4914.5	5888.3
30°	5573.1	5510.0	5296.3	4925.0	4865.5	4798.9	4630.8	4627.3	4714.8	5131.7	6242.1
32.5°	5944.4	5863.8	5716.7	5450.5	5285.8	5292.8	5026.6	5023.1	4946.0	5369.9	6550.3
35°	6308.7	6186.1	6147.5	5874.3	5709.7	5727.2	5513.5	5485.5	5345.4	5730.7	7058.3
37.5°	6746.5	6637.9	6697.5	6490.8	6287.6	6203.6	6105.5	6070.5	5888.3	6238.6	7751.8
40°	7229.9	7194.9	7156.3	7054.8	6932.2	6939.2	6834.1	6799.1	6529.3	6851.6	8417.4
42.5°	7881.4	7748.3	7548.7	7615.2	7678.3	7744.8	7709.8	7618.7	7338.5	7475.1	9160.0
45°	8487.4	8312.3	7944.5	7965.5	8224.7	8277.3	8701.1	8690.6	8126.6	8266.8	10004.2
47.5°	8897.3	8816.7	8596.0	8571.5	8942.8	8939.3	9702.9	9702.9	8956.8	9054.9	10911.4
50°	9506.8	9296.6	9202.0	9324.6	9513.8	9643.4	10725.8	10792.3	9773.0	9878.1	12098.9
52.5°	10221.3	9958.6	9720.4	10035.7	10372.0	10456.0	11738.1	11710.1	10400.0	10834.3	13489.5
55°	10813.3	10680.2	10515.6	10697.7	11247.7	11352.8	12753.9	12494.7	11027.0	11626.0	14158.6
57.5°	11503.4	11584.0	11619.0	11573.5	12228.5	12393.1	13913.4	13170.8	11566.4	12158.4	14550.9
60°	12543.7	12592.8	12638.3	12746.9	13440.5	13671.7	14831.1	14018.4	11906.2	12466.7	14582.4
62.5°	14127.0	13937.9	14039.5	14414.3	14971.2	15233.9	16183.2	14613.9	12165.4	12652.3	13552.6
65°	15938.0	15682.3	15577.2	16060.6	17503.8	17293.6	17871.6	15058.8	11790.6	11958.8	11492.9
67.5°	17773.5	17801.5	17531.8	18502.1	20271.1	20271.1	19440.9	15272.5	10774.8	9692.4	8060.1
70°	19230.7	19318.3	19465.4	21346.4	24148.7	24572.6	21385.0	14396.8	8704.6	6452.3	4406.6
72.5°	19209.7	18947.0	19700.1	23164.4	27672.6	27318.8	21791.3	11384.3	5432.9	3159.6	2021.2
73°	18778.8	18558.2	19381.3	23146.9	27816.2	27483.4	21493.6	10494.6	4791.9	2739.2	1797.0
75°	15335.5	14936.2	16337.3	20964.6	25735.5	25991.2	18260.4	6844.6	2627.1	1688.4	1264.5
77.5°	6991.7	7166.9	8991.8	14064.0	19833.2	20134.4	12004.3	2959.9	1439.7	1184.0	931.8
80°	2245.3	2357.4	3499.4	6991.7	12431.7	12974.6	5548.5	1345.1	1026.3	907.2	697.1
82.5°	858.2	854.7	1467.7	2907.4	5891.8	6238.6	2028.2	819.7	763.6	669.0	493.9
85°	301.2	315.3	553.5	1148.9	2318.9	2427.5	704.1	455.4	528.9	448.4	283.7
87.5°	105.1	108.6	196.2	416.8	798.7	844.2	196.2	182.1	262.7	259.2	143.6
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°	4749.9	4749.9	4749.9	4749.9	4749.9	4749.9	4749.9	4749.9	4749.9	4749.9	4749.9
2.5°	4798.9	4830.4	4841.0	4967.1	4967.1	4967.1	5016.1	5016.1	5002.1	4967.1	5051.1
5°	4819.9	4876.0	4984.6	5093.2	5121.2	5145.7	5212.3	5156.2	5177.2	5142.2	5173.7
7.5°	4879.5	4956.5	5159.7	5226.3	5180.7	5233.3	5163.2	5124.7	5086.2	5100.2	5051.1
10°	4981.1	5079.1	5173.7	5296.3	5208.8	5156.2	5012.6	4977.6	4855.0	4812.9	4851.5
12.5°	5107.2	5226.3	5387.4	5341.9	5173.7	5023.1	4869.0	4721.9	4648.3	4543.2	4571.2
15°	5233.3	5369.9	5394.4	5317.3	5107.2	4918.0	4637.8	4431.1	4357.6	4263.0	4312.0
17.5°	5369.9	5499.5	5457.5	5257.8	4974.1	4686.8	4368.1	4164.9	4010.8	3951.2	3951.2
20°	5573.1	5636.1	5569.5	5159.7	4812.9	4434.6	4126.4	3895.2	3741.1	3716.5	3678.0
22.5°	5730.7	5832.3	5534.5	5016.1	4578.2	4105.4	3751.6	3664.0	3618.5	3579.9	3530.9
25°	5933.8	5930.3	5471.5	4883.0	4175.4	3713.0	3499.4	3492.4	3471.3	3457.3	3523.9
27.5°	6126.5	6045.9	5397.9	4553.7	3758.6	3415.3	3299.7	3376.8	3408.3	3387.3	3415.3
30°	6431.3	6298.1	5292.8	4203.4	3390.8	3114.0	3135.1	3240.1	3292.7	3324.2	3282.2
32.5°	6753.5	6550.3	5075.6	3839.1	3065.0	2924.9	2973.9	3082.5	3145.6	3180.6	3219.1
35°	7219.4	6746.5	4855.0	3362.7	2830.3	2809.3	2837.3	2896.9	2987.9	3012.5	3023.0
37.5°	7793.9	7044.3	4557.2	2980.9	2648.2	2672.7	2700.7	2721.7	2725.2	2770.8	2753.2
40°	8368.3	7296.5	4122.9	2616.6	2459.0	2592.1	2578.1	2539.6	2508.0	2466.0	2455.5
42.5°	8872.7	7517.1	3639.5	2308.4	2290.9	2508.0	2462.5	2364.4	2290.9	2259.3	2206.8
45°	9440.2	7828.9	3152.6	2115.7	2161.3	2406.5	2392.5	2241.8	2147.3	2035.2	2021.2
47.5°	10175.8	8154.7	2686.7	1916.1	2038.7	2367.9	2374.9	2182.3	2045.7	1895.0	1874.0
50°	11118.1	8624.0	2332.9	1832.0	1965.1	2311.9	2322.4	2101.7	1923.1	1768.9	1754.9
52.5°	12021.8	9103.9	2038.7	1702.4	1916.1	2245.3	2269.9	2028.2	1821.5	1628.8	1639.3
55°	12477.2	8928.8	1786.5	1607.8	1804.0	2136.7	2227.8	1975.6	1667.4	1534.3	1530.7
57.5°	12578.8	8497.9	1586.8	1509.7	1709.4	2021.2	2157.8	1818.0	1597.3	1485.2	1471.2
60°	12246.0	7744.8	1429.2	1404.6	1590.3	1902.1	1996.6	1733.9	1527.2	1436.2	1415.2
62.5°	11426.3	6963.7	1320.6	1355.6	1488.7	1772.4	1895.0	1674.4	1460.7	1397.6	1352.1
65°	9370.2	5727.2	1233.0	1261.0	1383.6	1646.3	1832.0	1607.8	1401.1	1341.6	1338.1
67.5°	6490.8	3947.7	1162.9	1215.5	1299.6	1555.3	1768.9	1534.3	1324.1	1303.1	1275.0
70°	3324.2	2105.2	1071.9	1113.9	1208.5	1439.7	1656.9	1457.2	1243.5	1240.0	1205.0
72.5°	1684.9	1233.0	966.8	1029.8	1096.4	1289.1	1516.7	1355.6	1141.9	1103.4	1047.4
73°	1457.2	1141.9	949.3	1005.3	1068.4	1247.0	1474.7	1331.1	1127.9	1071.9	1019.3
75°	1061.4	900.2	851.2	907.2	956.3	1124.4	1334.6	1219.0	1036.8	977.3	928.3
77.5°	795.1	693.6	707.6	770.6	812.7	970.3	1187.5	1103.4	938.8	858.2	837.2
80°	585.0	528.9	585.0	644.5	676.1	854.7	1082.4	956.3	791.6	700.6	683.1
82.5°	416.8	385.3	451.9	490.4	504.4	707.6	973.8	763.6	599.0	479.9	441.4
85°	238.2	234.7	304.7	301.2	311.8	413.3	641.0	507.9	385.3	294.2	287.2
87.5°	105.1	115.6	154.1	122.6	129.6	196.2	273.2	189.2	157.6	87.6	66.6
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)