

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: P478306

Luminaire Tested: **IFLD-L-SA8D-827-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478306
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

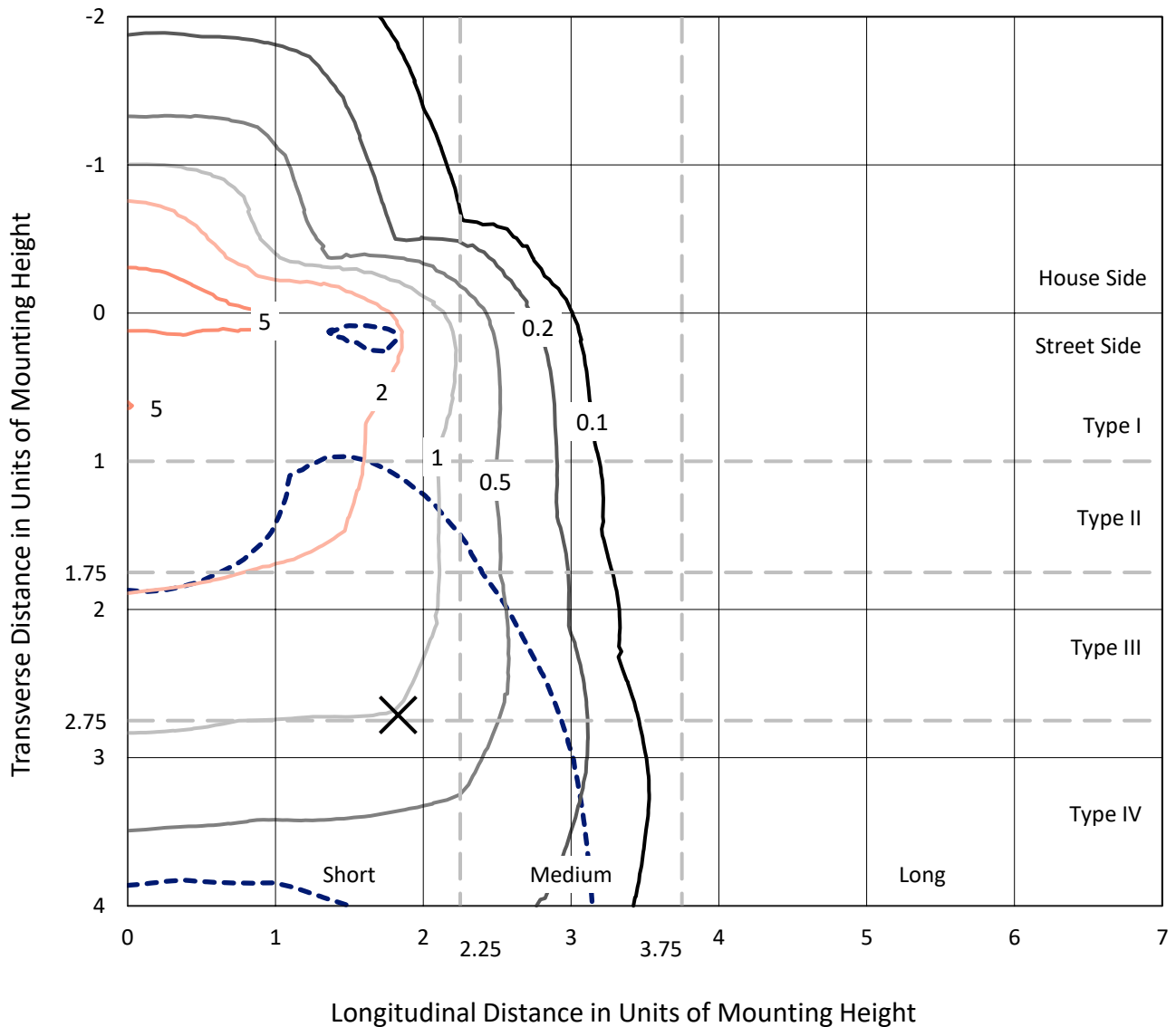
Lumens per Lamp: N/A
Luminaire Lumens: 41983.8 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

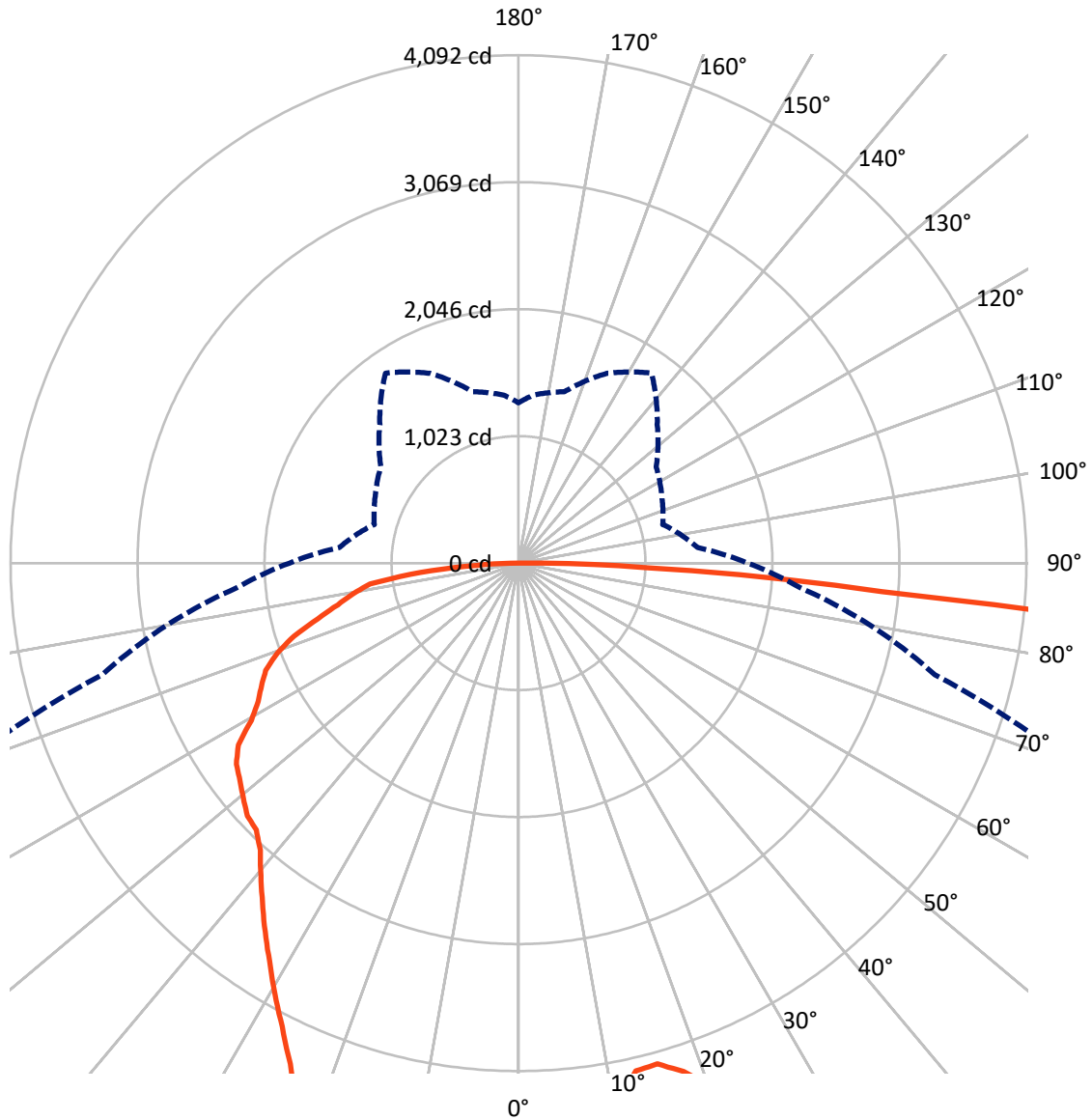
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	9069.0	0.0	9069.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	32914.7	0.0	32914.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	41983.8	0.0	41983.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.5	1.3
10°-20°	1554.7	3.7
20°-30°	2558.8	6.1
30°-40°	3826.6	9.1
40°-50°	5672.9	13.5
50°-60°	8175.2	19.5
60°-70°	10432.6	24.8
70°-80°	8118.3	19.3
80°-90°	1089.1	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°	41983.8	100.0
0°-180°	41983.8	100.0



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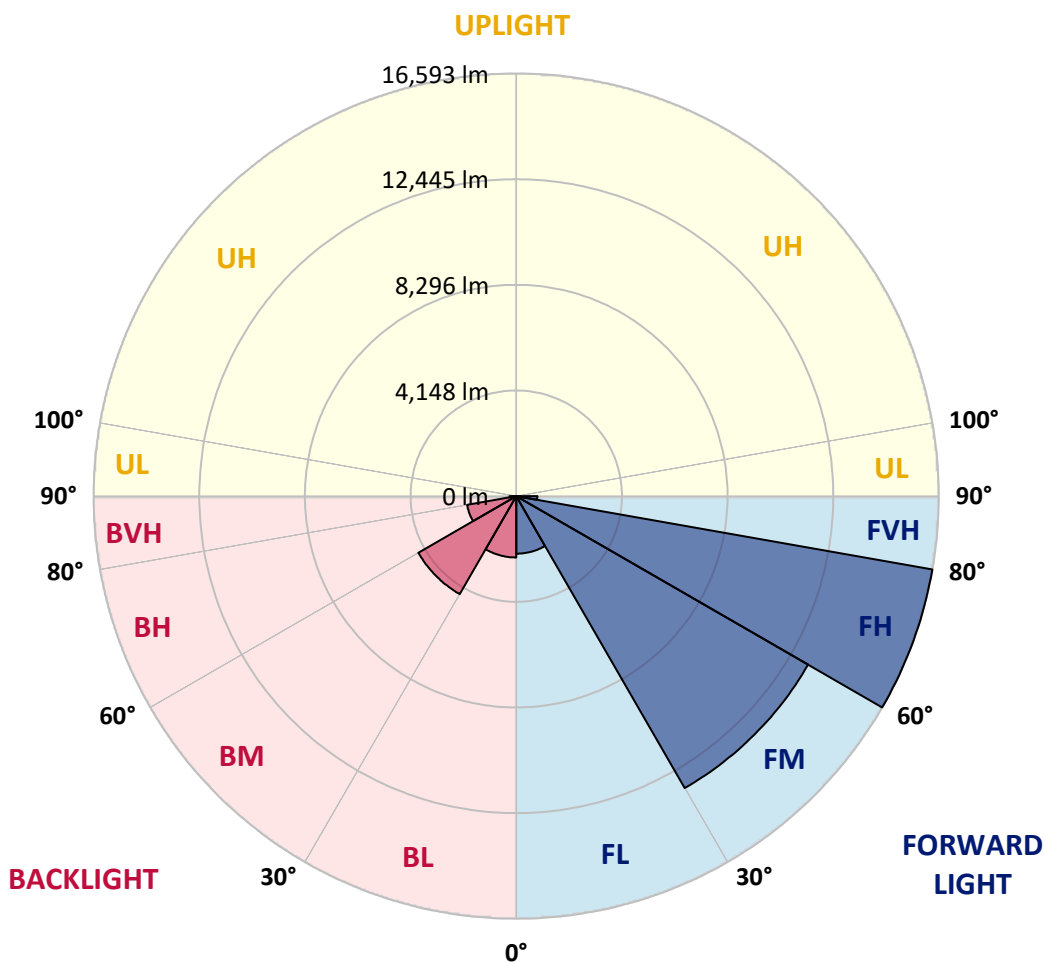
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2259.4	5.4			
FM (30°-60°)	13233.5	31.5			
FH (60°-80°)	16592.7	39.5			G5
FVH (80°-90°)	829.0	2.0			G5
BL (0°-30°)	2409.6	5.7	B3/2500		
BM (30°-60°)	4441.1	10.6	B3/5000		
BH (60°-80°)	1958.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	260.1	0.6			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°	34°	35°	45°	55°	65°	75°	85°
0°	6019.0	6019.0	6019.0	6019.0	6019.0	6019.0	6019.0	6019.0	6019.0	6019.0	6019.0
2.5°	5393.2	5410.9	5468.6	5481.9	5544.1	5508.6	5584.0	5717.2	5792.7	5903.6	6036.8
5°	4967.0	4891.6	4927.1	5064.7	5135.7	5153.5	5233.4	5459.7	5601.8	5766.0	6014.6
7.5°	4465.4	4452.1	4523.2	4611.9	4754.0	4767.3	4944.8	5144.6	5437.5	5801.5	6094.5
10°	4123.7	4181.4	4221.3	4314.5	4412.2	4412.2	4638.6	4984.8	5317.7	5668.4	6112.2
12.5°	4105.9	4070.4	4079.3	4128.1	4199.1	4287.9	4501.0	4811.7	5233.4	5641.7	6187.7
15°	4163.6	4176.9	4097.0	4159.2	4185.8	4216.9	4452.1	4802.8	5180.1	5734.9	6316.4
17.5°	4469.9	4394.4	4270.1	4212.4	4305.6	4305.6	4465.4	4740.7	5189.0	5783.8	6502.9
20°	4709.6	4709.6	4505.4	4443.3	4509.8	4496.5	4607.5	4811.7	5233.4	5881.4	6711.5
22.5°	5113.5	5171.2	4833.9	4705.1	4700.7	4736.2	4833.9	5007.0	5357.6	6019.0	6911.2
25°	5695.0	5708.3	5317.7	5184.5	5042.5	5100.2	5118.0	5291.1	5468.6	6178.8	7137.6
27.5°	6343.1	6334.2	5974.6	5641.7	5548.5	5561.8	5464.2	5579.6	5632.9	6227.7	7461.6
30°	7062.2	6982.3	6711.5	6241.0	6165.5	6081.2	5868.1	5863.7	5974.6	6502.9	7910.0
32.5°	7532.7	7430.6	7244.1	6906.8	6698.2	6707.0	6369.7	6365.3	6267.6	6804.7	8300.6
35°	7994.3	7838.9	7790.1	7443.9	7235.3	7257.5	6986.7	6951.2	6773.6	7261.9	8944.2
37.5°	8549.2	8411.6	8487.0	8225.1	7967.7	7861.1	7736.9	7692.5	7461.6	7905.5	9823.1
40°	9161.7	9117.3	9068.5	8939.8	8784.4	8793.3	8660.1	8615.7	8273.9	8682.3	10666.5
42.5°	9987.3	9818.7	9565.6	9650.0	9729.9	9814.2	9769.8	9654.4	9299.3	9472.4	11607.5
45°	10755.2	10533.3	10067.2	10093.9	10422.3	10488.9	11026.0	11012.7	10298.0	10475.6	12677.3
47.5°	11274.6	11172.5	10892.8	10861.8	11332.3	11327.9	12295.5	12295.5	11350.0	11474.3	13826.9
50°	12046.9	11780.6	11660.8	11816.1	12055.8	12220.1	13591.6	13676.0	12384.3	12517.5	15331.7
52.5°	12952.5	12619.5	12317.7	12717.2	13143.3	13249.9	14874.5	14839.0	13178.8	13729.2	17093.9
55°	13702.6	13533.9	13325.3	13556.1	14253.0	14386.2	16161.7	15833.2	13973.4	14732.4	17941.7
57.5°	14577.1	14679.2	14723.5	14665.8	15495.9	15704.5	17631.0	16689.9	14657.0	15407.1	18438.8
60°	15895.4	15957.5	16015.2	16152.8	17031.7	17324.7	18793.9	17764.1	15087.5	15797.7	18478.8
62.5°	17901.7	17662.0	17790.8	18265.7	18971.5	19304.4	20507.3	18518.7	15416.0	16033.0	17173.8
65°	20196.6	19872.6	19739.4	20352.0	22180.8	21914.4	22646.8	19082.5	14941.0	15154.1	14563.7
67.5°	22522.5	22558.0	22216.3	23445.8	25687.4	25687.4	24635.4	19353.2	13653.8	12282.2	10213.7
70°	24369.1	24480.1	24666.5	27050.1	30601.2	31138.3	27099.0	18243.5	11030.5	8176.3	5584.0
72.5°	24342.5	24009.5	24963.9	29353.9	35066.6	34618.3	27613.9	14426.1	6884.6	4003.8	2561.2
73°	23796.5	23516.8	24560.0	29331.7	35248.6	34826.9	27236.6	13298.7	6072.3	3471.2	2277.1
75°	19433.1	18927.1	20702.6	26566.3	32612.0	32936.0	23139.5	8673.4	3329.1	2139.5	1602.4
77.5°	8859.9	9081.8	11394.4	17821.8	25132.6	25514.3	15211.8	3750.8	1824.4	1500.3	1180.7
80°	2845.3	2987.3	4434.4	8859.9	15753.3	16441.4	7031.1	1704.5	1300.6	1149.7	883.3
82.5°	1087.5	1083.1	1859.9	3684.2	7466.1	7905.5	2570.1	1038.7	967.7	847.8	625.9
85°	381.7	399.5	701.3	1455.9	2938.5	3076.1	892.2	577.0	670.3	568.2	359.5
87.5°	133.2	137.6	248.6	528.2	1012.0	1069.8	248.6	230.8	332.9	328.5	182.0
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°	6019.0	6019.0	6019.0	6019.0	6019.0	6019.0	6019.0	6019.0	6019.0	6019.0	6019.0
2.5°	6081.2	6121.1	6134.4	6294.2	6294.2	6294.2	6356.4	6356.4	6338.6	6294.2	6400.8
5°	6107.8	6178.8	6316.4	6454.0	6489.5	6520.6	6605.0	6533.9	6560.6	6516.2	6556.1
7.5°	6183.3	6280.9	6538.4	6622.7	6565.0	6631.6	6542.8	6494.0	6445.2	6462.9	6400.8
10°	6312.0	6436.3	6556.1	6711.5	6600.5	6533.9	6351.9	6307.6	6152.2	6098.9	6147.8
12.5°	6471.8	6622.7	6826.9	6769.2	6556.1	6365.3	6170.0	5983.5	5890.3	5757.1	5792.7
15°	6631.6	6804.7	6835.8	6738.1	6471.8	6232.1	5877.0	5615.1	5521.9	5402.0	5464.2
17.5°	6804.7	6968.9	6915.7	6662.7	6303.1	5939.1	5535.2	5277.7	5082.4	5007.0	5007.0
20°	7062.2	7142.1	7057.7	6538.4	6098.9	5619.5	5228.9	4936.0	4740.7	4709.6	4660.8
22.5°	7261.9	7390.6	7013.3	6356.4	5801.5	5202.3	4754.0	4643.0	4585.3	4536.5	4474.3
25°	7519.3	7514.9	6933.4	6187.7	5291.1	4705.1	4434.4	4425.5	4398.9	4381.1	4465.4
27.5°	7763.5	7661.4	6840.2	5770.5	4762.8	4327.8	4181.4	4279.0	4319.0	4292.3	4327.8
30°	8149.7	7981.0	6707.0	5326.6	4296.8	3946.1	3972.7	4105.9	4172.5	4212.4	4159.2
32.5°	8558.0	8300.6	6431.8	4864.9	3884.0	3706.4	3768.6	3906.2	3986.1	4030.4	4079.3
35°	9148.4	8549.2	6152.2	4261.3	3586.6	3559.9	3595.4	3670.9	3786.3	3817.4	3830.7
37.5°	9876.4	8926.5	5774.9	3777.4	3355.7	3386.8	3422.3	3449.0	3453.4	3511.1	3488.9
40°	10604.3	9246.0	5224.5	3315.8	3116.0	3284.7	3267.0	3218.1	3178.2	3124.9	3111.6
42.5°	11243.5	9525.7	4611.9	2925.2	2903.0	3178.2	3120.5	2996.2	2903.0	2863.0	2796.5
45°	11962.6	9920.7	3994.9	2681.0	2738.7	3049.5	3031.7	2840.8	2721.0	2579.0	2561.2
47.5°	12894.8	10333.6	3404.6	2428.0	2583.4	3000.6	3009.5	2765.4	2592.3	2401.4	2374.8
50°	14088.8	10928.4	2956.2	2321.5	2490.2	2929.6	2942.9	2663.3	2436.9	2241.6	2223.8
52.5°	15234.0	11536.5	2583.4	2157.3	2428.0	2845.3	2876.4	2570.1	2308.2	2064.0	2077.4
55°	15811.1	11314.5	2263.8	2037.4	2286.0	2707.7	2823.1	2503.5	2112.9	1944.2	1939.8
57.5°	15939.8	10768.6	2010.8	1913.1	2166.1	2561.2	2734.3	2303.7	2024.1	1882.1	1864.3
60°	15518.1	9814.2	1811.0	1780.0	2015.2	2410.3	2530.1	2197.2	1935.3	1819.9	1793.3
62.5°	14479.4	8824.4	1673.4	1717.8	1886.5	2246.0	2401.4	2121.8	1851.0	1771.1	1713.4
65°	11873.8	7257.5	1562.5	1598.0	1753.3	2086.2	2321.5	2037.4	1775.5	1700.1	1695.6
67.5°	8225.1	5002.5	1473.7	1540.3	1646.8	1970.8	2241.6	1944.2	1677.9	1651.2	1615.7
70°	4212.4	2667.7	1358.3	1411.5	1531.4	1824.4	2099.6	1846.5	1575.8	1571.3	1527.0
72.5°	2135.1	1562.5	1225.1	1305.0	1389.3	1633.5	1922.0	1717.8	1447.1	1398.2	1327.2
73°	1846.5	1447.1	1202.9	1273.9	1353.8	1580.2	1868.7	1686.7	1429.3	1358.3	1291.7
75°	1345.0	1140.8	1078.6	1149.7	1211.8	1424.9	1691.2	1544.7	1313.9	1238.4	1176.3
77.5°	1007.6	878.9	896.6	976.5	1029.8	1229.6	1504.8	1398.2	1189.6	1087.5	1060.9
80°	741.3	670.3	741.3	816.7	856.7	1083.1	1371.6	1211.8	1003.2	887.8	865.6
82.5°	528.2	488.3	572.6	621.4	639.2	896.6	1234.0	967.7	759.0	608.1	559.3
85°	301.8	297.4	386.2	381.7	395.1	523.8	812.3	643.6	488.3	372.9	364.0
87.5°	133.2	146.5	195.3	155.4	164.2	248.6	346.2	239.7	199.7	111.0	84.3
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)