

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: P478106

Luminaire Tested: **IFLD-L-SA7D-730-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478106
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-730-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

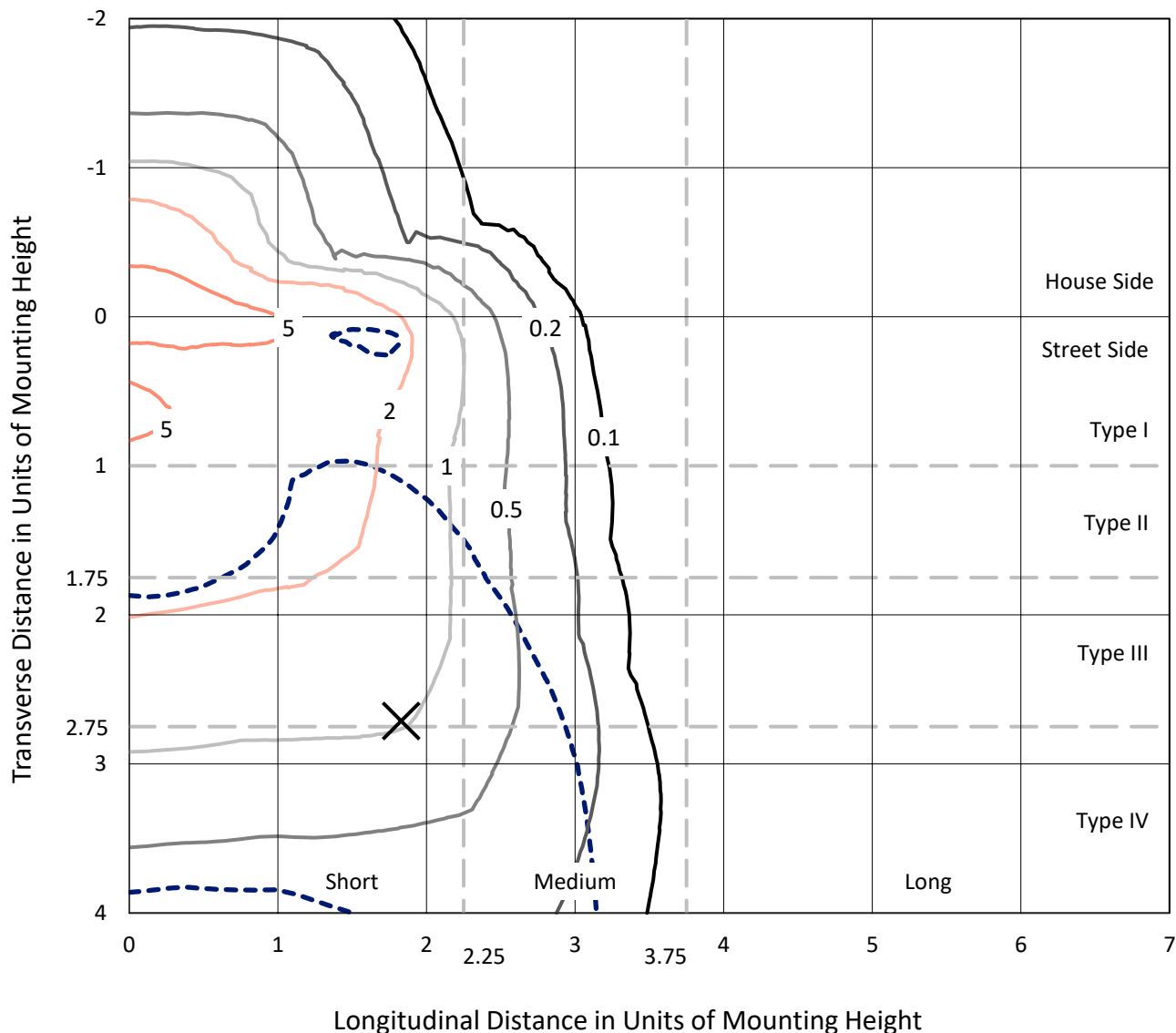
Lumens per Lamp: N/A
Luminaire Lumens: 45506.1 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6
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

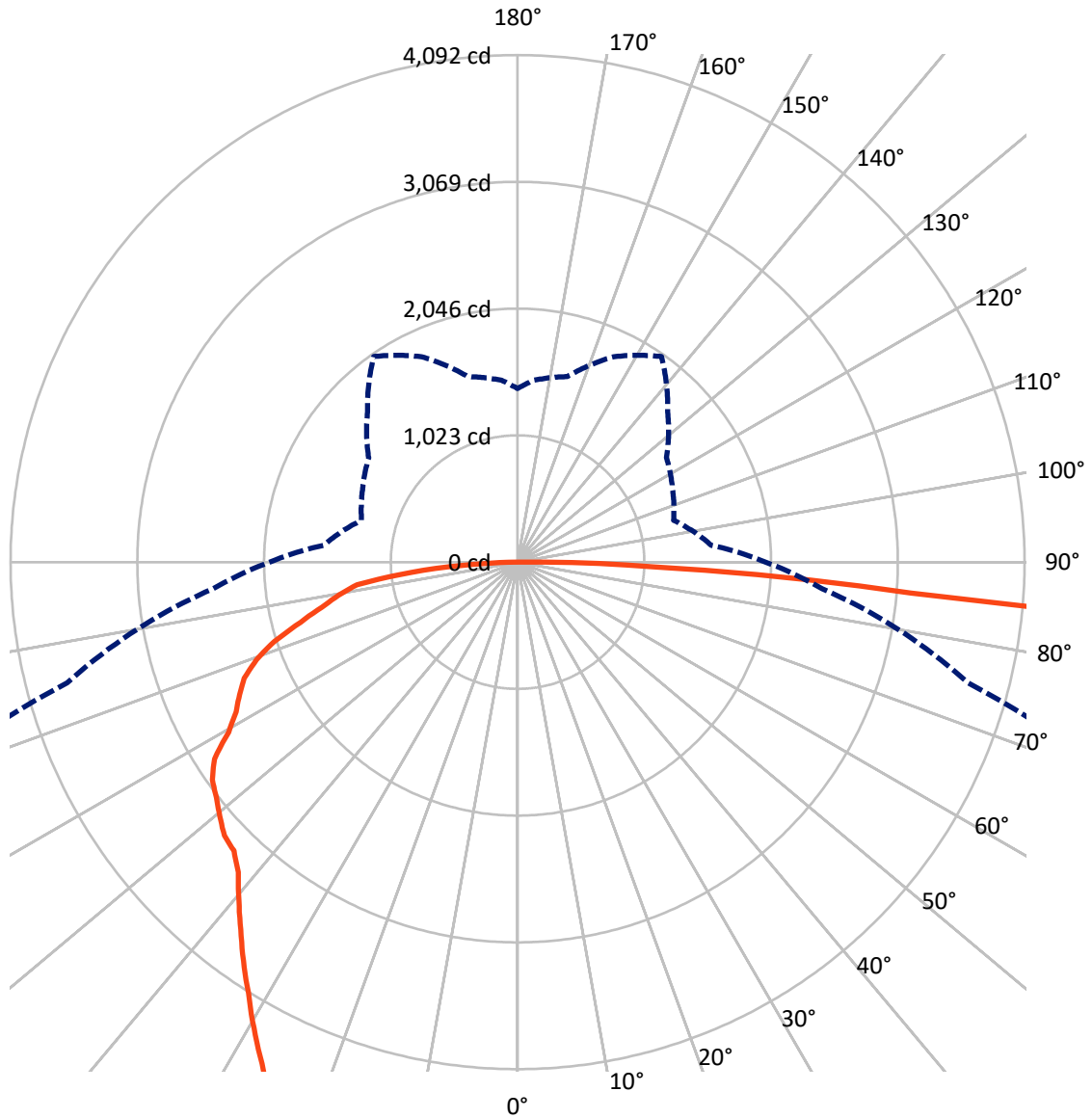
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 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	9829.9	0.0	9829.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	35676.2	0.0	35676.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	45506.1	0.0	45506.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.1	1.3
10°-20°	1685.1	3.7
20°-30°	2773.5	6.1
30°-40°	4147.7	9.1
40°-50°	6148.8	13.5
50°-60°	8861.0	19.5
60°-70°	11307.9	24.8
70°-80°	8799.4	19.3
80°-90°	1180.5	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°	45506.1	100.0
0°-180°	45506.1	100.0

Coefficient of Utilization



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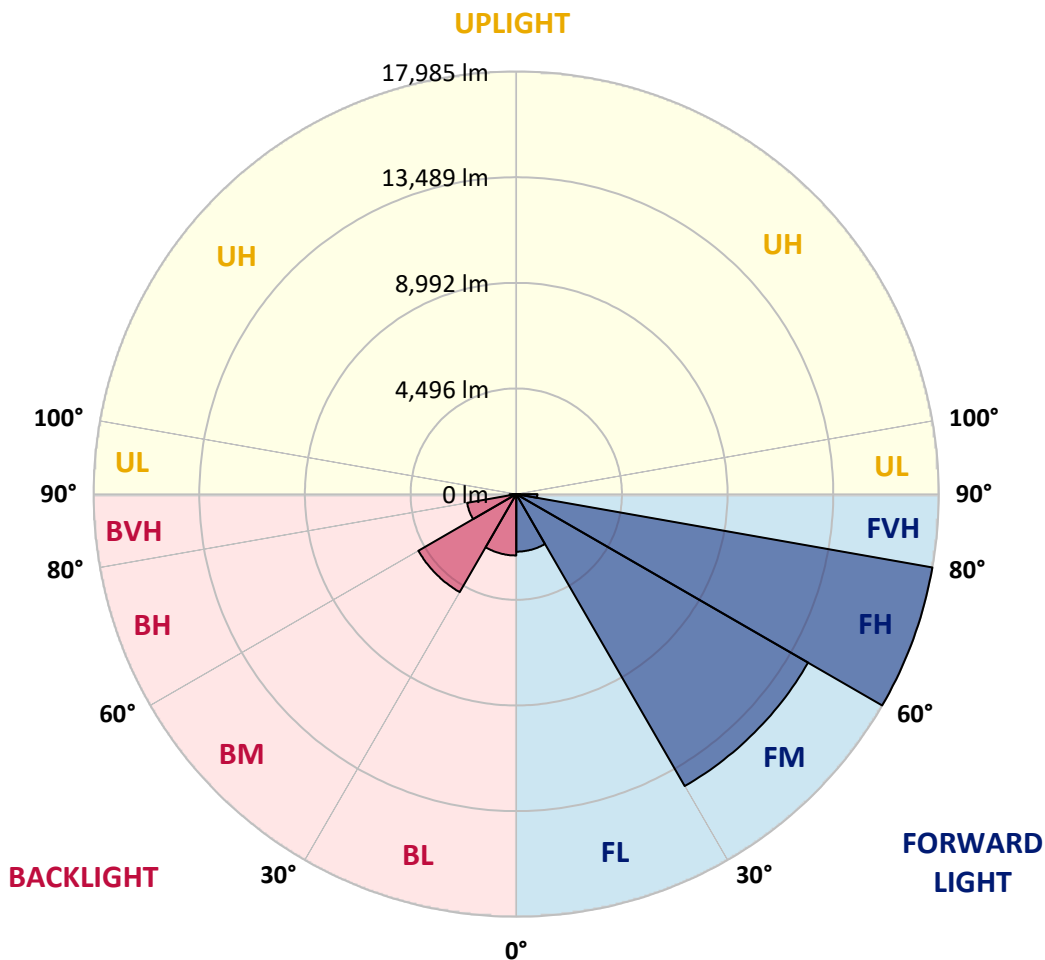
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2449.0	5.4			
FM (30°-60°)	14343.8	31.5			
FH (60°-80°)	17984.8	39.5			G5
FVH (80°-90°)	898.6	2.0			G5
BL (0°-30°)	2611.7	5.7	B4/5000		
BM (30°-60°)	4813.7	10.6	B3/5000		
BH (60°-80°)	2122.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	281.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6524.0	6524.0	6524.0	6524.0	6524.0	6524.0	6524.0	6524.0	6524.0	6524.0	6524.0
2.5°	5845.6	5864.9	5927.4	5941.9	6009.2	5970.7	6052.5	6196.8	6278.6	6398.9	6543.3
5°	5383.8	5302.0	5340.5	5489.6	5566.6	5585.8	5672.4	5917.8	6071.8	6249.8	6519.2
7.5°	4840.1	4825.7	4902.6	4998.9	5152.8	5167.2	5359.7	5576.2	5893.7	6288.3	6605.8
10°	4469.6	4532.2	4575.5	4676.5	4782.4	4782.4	5027.7	5403.0	5763.8	6143.9	6625.0
12.5°	4450.4	4411.9	4421.5	4474.4	4551.4	4647.6	4878.6	5215.4	5672.4	6115.1	6706.8
15°	4512.9	4527.4	4440.8	4508.1	4537.0	4570.7	4825.7	5205.7	5614.7	6216.1	6846.4
17.5°	4844.9	4763.1	4628.4	4565.8	4666.9	4666.9	4840.1	5138.4	5624.3	6269.0	7048.4
20°	5104.7	5104.7	4883.4	4816.0	4888.2	4873.8	4994.0	5215.4	5672.4	6374.9	7274.6
22.5°	5542.5	5605.1	5239.4	5099.9	5095.1	5133.6	5239.4	5427.1	5807.1	6524.0	7491.1
25°	6172.8	6187.2	5763.8	5619.5	5465.5	5528.1	5547.3	5735.0	5927.4	6697.2	7736.4
27.5°	6875.2	6865.6	6475.9	6115.1	6014.0	6028.5	5922.6	6047.7	6105.4	6750.1	8087.7
30°	7654.6	7568.0	7274.6	6764.6	6682.8	6591.4	6360.4	6355.6	6475.9	7048.4	8573.6
32.5°	8164.6	8054.0	7851.9	7486.3	7260.1	7269.8	6904.1	6899.3	6793.4	7375.6	8997.0
35°	8665.0	8496.6	8443.7	8068.4	7842.3	7866.3	7572.9	7534.4	7341.9	7871.2	9694.6
37.5°	9266.4	9117.3	9199.0	8915.2	8636.1	8520.7	8386.0	8337.8	8087.7	8568.8	10647.2
40°	9930.4	9882.2	9829.3	9689.8	9521.4	9531.0	9386.7	9338.6	8968.1	9410.7	11561.4
42.5°	10825.2	10642.4	10368.2	10459.6	10546.2	10637.6	10589.5	10464.4	10079.5	10267.1	12581.3
45°	11657.6	11417.0	10911.8	10940.7	11296.7	11368.9	11951.1	11936.6	11162.0	11354.5	13740.8
47.5°	12220.5	12109.8	11806.7	11773.1	12283.0	12278.2	13327.1	13327.1	12302.3	12437.0	14986.9
50°	13057.6	12769.0	12639.1	12807.5	13067.3	13245.3	14732.0	14823.4	13423.3	13567.6	16617.9
52.5°	14039.1	13678.3	13351.1	13784.1	14246.0	14361.5	16122.4	16083.9	14284.5	14881.1	18528.0
55°	14852.2	14669.4	14443.3	14693.5	15448.8	15593.2	17517.6	17161.6	15145.7	15968.4	19446.9
57.5°	15800.0	15910.7	15958.8	15896.3	16796.0	17022.1	19110.2	18090.2	15886.6	16699.7	19985.8
60°	17229.0	17296.3	17358.9	17508.0	18460.6	18778.2	20370.7	19254.5	16353.3	17123.1	20029.1
62.5°	19403.6	19143.8	19283.4	19798.2	20563.1	20924.0	22227.8	20072.4	16709.4	17378.1	18614.6
65°	21891.0	21539.8	21395.5	22059.4	24041.7	23753.0	24546.8	20683.4	16194.6	16425.5	15785.6
67.5°	24412.1	24450.6	24080.1	25412.9	27842.5	27842.5	26702.3	20976.9	14799.3	13312.6	11070.6
70°	26413.6	26533.9	26735.9	29319.6	33168.5	33750.7	29372.5	19774.1	11955.9	8862.3	6052.5
72.5°	26384.7	26023.9	27058.3	31816.6	38008.6	37522.7	29930.6	15636.5	7462.2	4339.7	2776.1
73°	25792.9	25489.8	26620.5	31792.5	38205.9	37748.8	29521.6	14414.4	6581.7	3762.4	2468.2
75°	21063.5	20515.0	22439.5	28795.1	35348.0	35699.2	25080.9	9401.1	3608.4	2319.0	1736.8
77.5°	9603.2	9843.8	12350.4	19317.0	27241.1	27654.9	16488.0	4065.5	1977.4	1626.2	1279.8
80°	3084.0	3237.9	4806.4	9603.2	17075.0	17820.8	7621.0	1847.5	1409.7	1246.1	957.4
82.5°	1178.7	1173.9	2015.9	3993.3	8092.5	8568.8	2785.7	1125.8	1048.8	918.9	678.4
85°	413.8	433.0	760.2	1578.1	3185.0	3334.2	967.1	625.5	726.5	615.8	389.7
87.5°	144.3	149.1	269.4	572.5	1097.0	1159.5	269.4	250.2	360.8	356.0	197.3
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°	6524.0	6524.0	6524.0	6524.0	6524.0	6524.0	6524.0	6524.0	6524.0	6524.0	6524.0
2.5°	6591.4	6634.7	6649.1	6822.3	6822.3	6822.3	6889.7	6889.7	6870.4	6822.3	6937.8
5°	6620.2	6697.2	6846.4	6995.5	7034.0	7067.7	7159.1	7082.1	7111.0	7062.9	7106.2
7.5°	6702.0	6807.9	7086.9	7178.3	7115.8	7188.0	7091.7	7038.8	6985.9	7005.1	6937.8
10°	6841.6	6976.3	7106.2	7274.6	7154.3	7082.1	6884.9	6836.7	6668.3	6610.6	6663.5
12.5°	7014.8	7178.3	7399.7	7337.1	7106.2	6899.3	6687.6	6485.5	6384.5	6240.2	6278.6
15°	7188.0	7375.6	7409.3	7303.4	7014.8	6755.0	6370.1	6086.2	5985.2	5855.3	5922.6
17.5°	7375.6	7553.6	7495.9	7221.6	6831.9	6437.4	5999.6	5720.5	5508.8	5427.1	5427.1
20°	7654.6	7741.3	7649.8	7086.9	6610.6	6091.0	5667.6	5350.1	5138.4	5104.7	5051.8
22.5°	7871.2	8010.7	7601.7	6889.7	6288.3	5638.7	5152.8	5032.5	4970.0	4917.1	4849.7
25°	8150.2	8145.4	7515.1	6706.8	5735.0	5099.9	4806.4	4796.8	4767.9	4748.7	4840.1
27.5°	8414.8	8304.2	7414.1	6254.6	5162.4	4690.9	4532.2	4638.0	4681.3	4652.4	4690.9
30°	8833.4	8650.6	7269.8	5773.5	4657.3	4277.2	4306.0	4450.4	4522.5	4565.8	4508.1
32.5°	9276.0	8997.0	6971.5	5273.1	4209.8	4017.4	4084.7	4233.9	4320.5	4368.6	4421.5
35°	9915.9	9266.4	6668.3	4618.8	3887.5	3858.6	3897.1	3978.9	4104.0	4137.6	4152.1
37.5°	10705.0	9675.4	6259.4	4094.3	3637.3	3671.0	3709.4	3738.3	3743.1	3805.7	3781.6
40°	11494.0	10021.8	5662.8	3594.0	3377.5	3560.3	3541.1	3488.1	3444.8	3387.1	3372.7
42.5°	12186.8	10324.9	4998.9	3170.6	3146.5	3444.8	3382.3	3247.6	3146.5	3103.2	3031.1
45°	12966.2	10753.1	4330.1	2906.0	2968.5	3305.3	3286.1	3079.2	2949.3	2795.3	2776.1
47.5°	13976.6	11200.5	3690.2	2631.7	2800.1	3252.4	3262.0	2997.4	2809.8	2602.9	2574.0
50°	15270.8	11845.2	3204.3	2516.3	2699.1	3175.4	3189.8	2886.7	2641.4	2429.7	2410.4
52.5°	16512.1	12504.4	2800.1	2338.3	2631.7	3084.0	3117.7	2785.7	2501.8	2237.2	2251.7
55°	17137.6	12263.8	2453.7	2208.3	2477.8	2934.8	3059.9	2713.5	2290.1	2107.3	2102.5
57.5°	17277.1	11672.0	2179.5	2073.6	2347.9	2776.1	2963.7	2497.0	2193.9	2040.0	2020.7
60°	16820.0	10637.6	1963.0	1929.3	2184.3	2612.5	2742.4	2381.6	2097.7	1972.6	1943.7
62.5°	15694.2	9564.7	1813.8	1861.9	2044.8	2434.5	2602.9	2299.8	2006.3	1919.7	1857.1
65°	12870.0	7866.3	1693.5	1732.0	1900.4	2261.3	2516.3	2208.3	1924.5	1842.7	1837.9
67.5°	8915.2	5422.2	1597.3	1669.5	1785.0	2136.2	2429.7	2107.3	1818.6	1789.8	1751.3
70°	4565.8	2891.5	1472.2	1530.0	1659.9	1977.4	2275.7	2001.5	1708.0	1703.2	1655.1
72.5°	2314.2	1693.5	1327.9	1414.5	1505.9	1770.5	2083.3	1861.9	1568.5	1515.5	1438.6
73°	2001.5	1568.5	1303.8	1380.8	1467.4	1712.8	2025.5	1828.3	1549.2	1472.2	1400.1
75°	1457.8	1236.5	1169.1	1246.1	1313.5	1544.4	1833.1	1674.3	1424.1	1342.3	1275.0
77.5°	1092.1	952.6	971.9	1058.5	1116.2	1332.7	1631.0	1515.5	1289.4	1178.7	1149.9
80°	803.5	726.5	803.5	885.3	928.6	1173.9	1486.7	1313.5	1087.3	962.2	938.2
82.5°	572.5	529.2	620.6	673.6	692.8	971.9	1337.5	1048.8	822.7	659.1	606.2
85°	327.2	322.4	418.6	413.8	428.2	567.7	880.5	697.6	529.2	404.1	394.5
87.5°	144.3	158.8	211.7	168.4	178.0	269.4	375.3	259.8	216.5	120.3	91.4
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)