

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: P478495

Luminaire Tested: **IFLD-L-SA7C-730-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478495
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

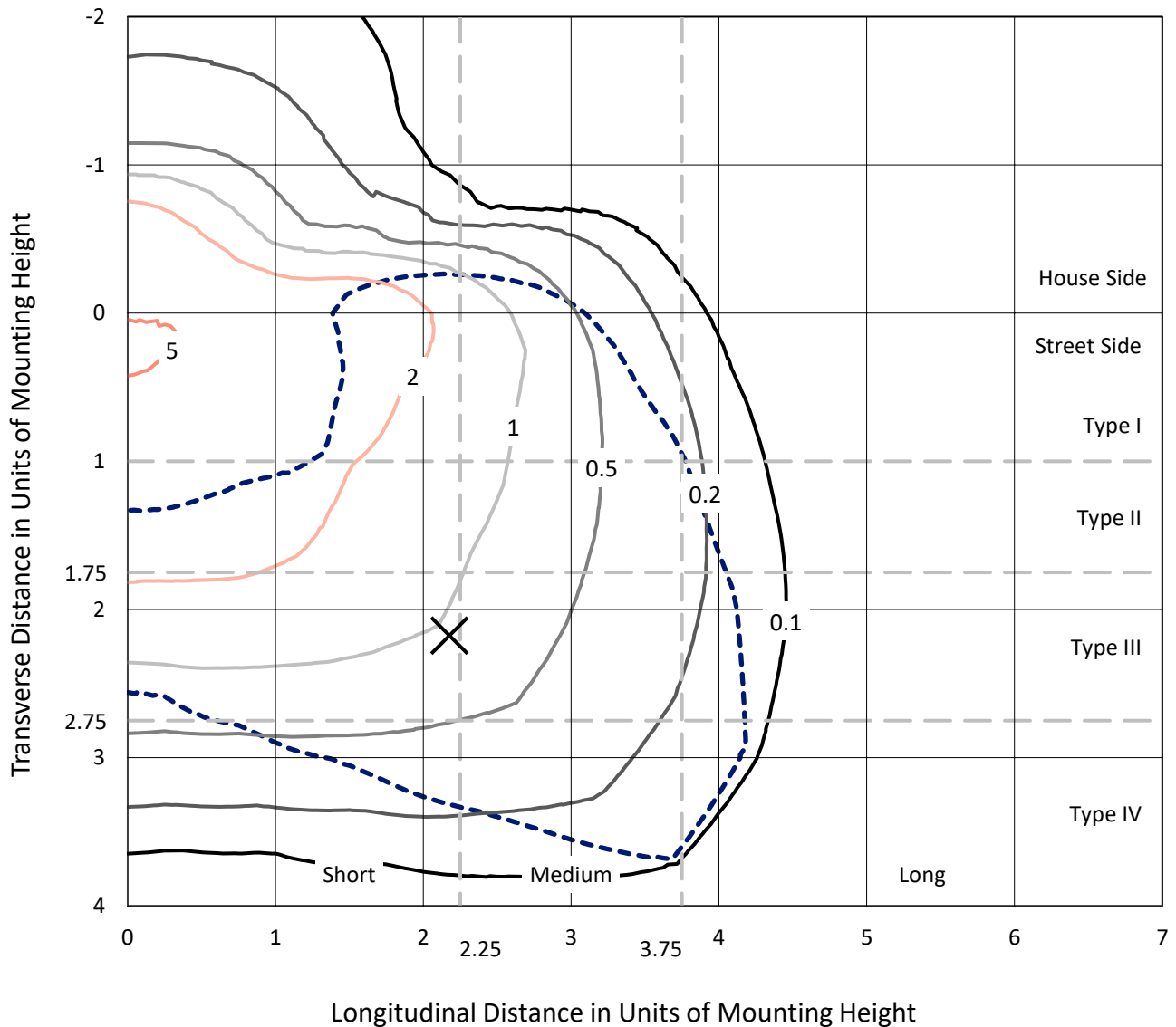
Lumens per Lamp: N/A
Luminaire Lumens: 40802.8 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 369
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

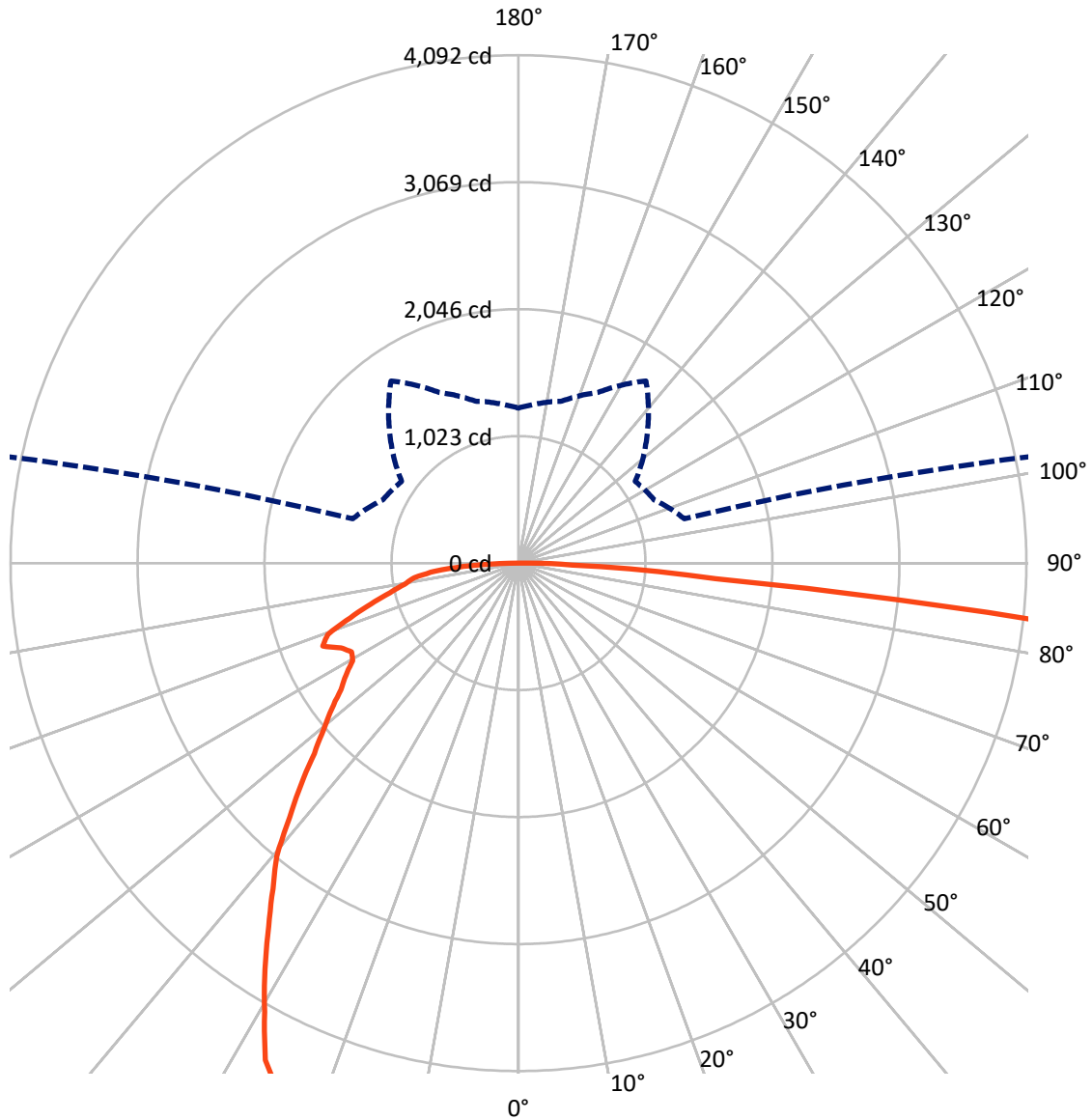
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 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	9083.0	0.0	9083.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	31719.9	0.0	31719.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	40802.8	0.0	40802.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.0	1.1
10°-20°	1430.6	3.5
20°-30°	2415.8	5.9
30°-40°	3343.1	8.2
40°-50°	4782.0	11.7
50°-60°	7712.8	18.9
60°-70°	11375.3	27.9
70°-80°	8260.4	20.2
80°-90°	1053.0	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°	40802.8	100.0
0°-180°	40802.8	100.0

Coefficient of Utilization



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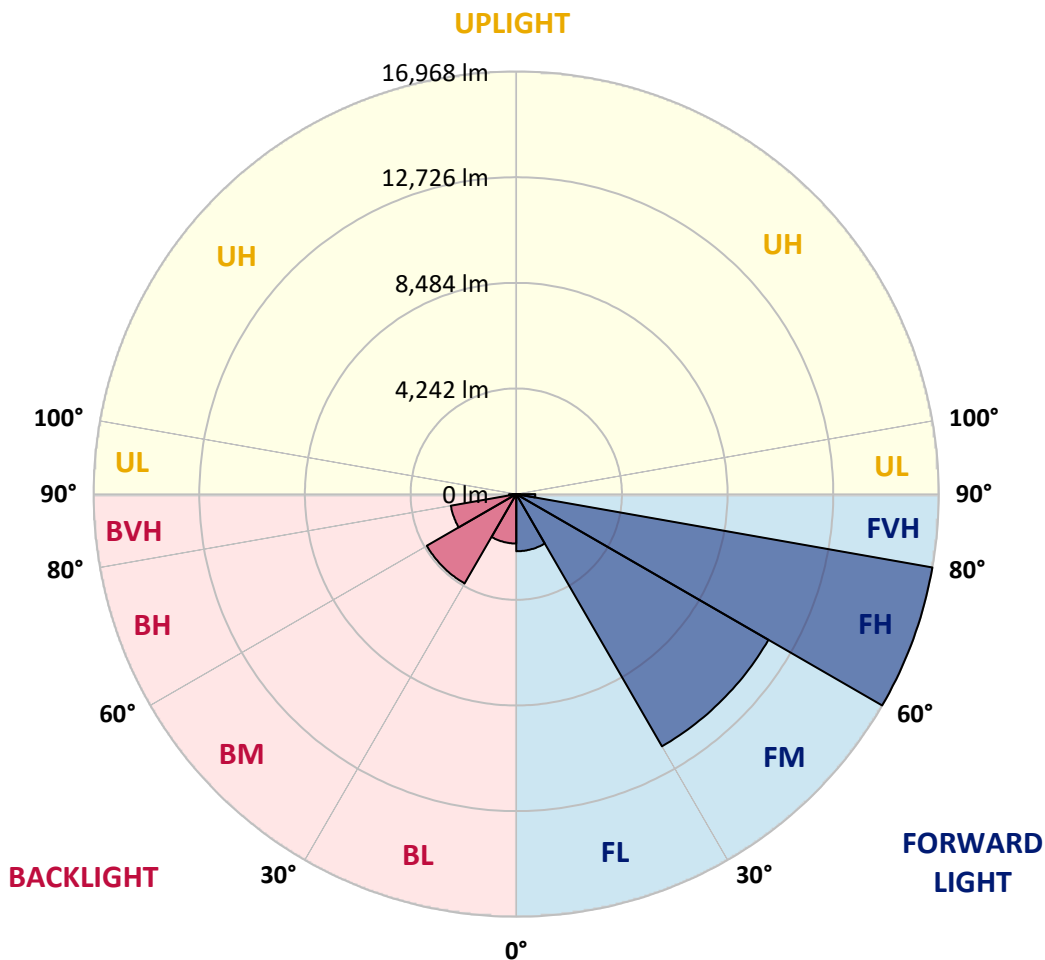
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2293.1	5.6			
FM (30°-60°)	11692.7	28.7			
FH (60°-80°)	16967.6	41.6			G5
FVH (80°-90°)	766.4	1.9			G5
BL (0°-30°)	1983.2	4.9	B3/2500		
BM (30°-60°)	4145.2	10.2	B3/5000		
BH (60°-80°)	2668.0	6.5	B4/5000		G4/5000
BVH (80°-90°)	286.6	0.7			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°	35°	44°	45°	55°	65°	75°	85°
0°	4202.0	4202.0	4202.0	4202.0	4202.0	4202.0	4202.0	4202.0	4202.0	4202.0	4202.0
2.5°	4426.4	4452.8	4426.4	4422.0	4378.0	4347.2	4373.6	4334.0	4290.0	4272.4	4232.8
5°	4831.1	4835.5	4787.1	4791.5	4699.1	4602.3	4619.9	4501.1	4373.6	4325.2	4246.0
7.5°	5244.7	5196.3	5125.9	5103.9	4958.7	4853.1	4839.9	4734.3	4536.3	4426.4	4316.4
10°	5513.1	5530.7	5416.3	5319.5	5196.3	5068.7	5064.3	4866.3	4751.9	4589.1	4448.4
12.5°	5750.7	5755.1	5658.3	5504.3	5350.3	5191.9	5213.9	5125.9	4932.3	4778.3	4637.5
15°	5935.5	5909.1	5803.5	5662.7	5499.9	5376.7	5363.5	5288.7	5125.9	4998.3	4765.1
17.5°	5988.3	5975.1	5869.5	5719.9	5561.5	5469.1	5504.3	5381.1	5315.1	5200.7	4976.3
20°	5887.1	5856.3	5838.7	5671.5	5557.1	5548.3	5517.5	5543.9	5433.9	5328.3	5165.5
22.5°	5702.3	5689.1	5680.3	5548.3	5495.5	5535.1	5587.9	5627.5	5609.9	5508.7	5323.9
25°	5513.1	5574.7	5517.5	5455.9	5530.7	5631.9	5618.7	5746.3	5746.3	5715.5	5561.5
27.5°	5645.1	5605.5	5561.5	5530.7	5557.1	5715.5	5706.7	5860.7	5917.9	5860.7	5684.7
30°	5975.1	5935.5	5807.9	5671.5	5636.3	5807.9	5851.9	5988.3	6014.7	5873.9	5724.3
32.5°	6595.5	6573.5	6371.1	5970.7	5755.1	5851.9	5873.9	6027.9	6005.9	5917.9	5856.3
35°	7515.1	7440.3	7158.7	6481.1	6005.9	5909.1	5851.9	5975.1	6058.7	6014.7	5957.5
37.5°	8522.7	8439.1	8091.5	7233.5	6459.1	6063.1	6019.1	6120.3	6217.1	6195.1	6076.3
40°	9486.3	9486.3	9173.9	8175.1	7132.3	6437.1	6445.9	6331.5	6419.5	6379.9	6401.9
42.5°	10436.7	10401.5	10273.9	9279.5	7853.9	7061.9	6921.1	6635.1	6793.5	6780.3	6811.1
45°	11400.3	11373.9	11338.7	10309.1	8887.9	7906.7	7831.9	7317.1	7462.3	7400.7	7532.7
47.5°	12170.3	12201.1	12201.1	11457.5	9992.3	9033.1	8923.1	8109.1	8386.3	8417.1	8447.9
50°	12825.9	12839.1	12825.9	12553.1	11224.3	10322.3	10097.9	9270.7	9547.9	9789.9	10071.5
52.5°	13732.2	13749.8	13688.2	13582.6	12896.3	11677.5	11426.7	10507.1	11074.7	11329.9	11835.9
55°	14849.8	14717.8	14603.4	14682.6	14502.2	13169.1	12909.5	11783.1	12636.7	12975.5	13987.4
57.5°	15056.6	15171.0	15461.4	16090.6	16350.2	14621.0	14471.4	13349.5	14401.0	14695.8	16385.4
60°	15787.0	15597.8	16310.6	17674.6	17965.0	16513.0	16359.0	15065.4	16156.6	16464.6	18598.6
62.5°	16266.6	16257.8	17313.8	18933.0	19593.0	18475.4	18163.0	17296.2	18053.0	18352.2	21009.8
65°	16125.8	16253.4	18127.8	19672.2	20952.6	20706.2	20525.8	19214.6	20213.4	20187.0	22580.5
67.5°	14841.0	15201.8	17613.0	20204.6	22976.5	23425.3	23368.1	21911.8	21969.0	21410.2	23280.1
70°	13059.1	12935.9	15435.0	19650.2	23988.5	26650.5	26637.3	23918.1	23548.5	21678.6	21273.8
72°	10031.9	9895.5	11950.3	16873.8	23456.1	27939.7	28335.7	25308.5	23530.9	20565.4	17573.4
72.5°	9107.9	8989.1	11035.1	15883.8	22866.5	28274.1	28089.3	25361.3	23346.1	20041.8	16416.2
75°	4193.2	4056.8	5513.1	9723.9	17837.4	25053.3	25682.5	23733.3	20389.4	15954.2	9833.9
77.5°	1249.6	1210.0	1773.2	3924.8	10366.3	18457.8	18699.8	17907.8	14233.8	8738.3	3647.6
80°	695.2	699.6	915.2	1469.6	4558.3	10669.9	11541.1	11061.5	6982.7	2886.4	1214.4
82.5°	387.2	409.2	572.0	871.2	2094.4	4897.1	5271.1	5081.9	2525.6	1355.2	664.4
85°	202.4	211.2	299.2	466.4	1188.0	1548.8	1592.8	1707.2	1311.2	924.0	356.4
87.5°	79.2	79.2	110.0	193.6	440.0	479.6	431.2	523.6	752.4	598.4	176.0
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°	4202.0	4202.0	4202.0	4202.0	4202.0	4202.0	4202.0	4202.0	4202.0	4202.0	4202.0
2.5°	4268.0	4232.8	4228.4	4171.2	4188.8	4140.4	4144.8	4136.0	4140.4	4131.6	4109.6
5°	4246.0	4219.6	4144.8	4193.2	4149.2	4210.8	4259.2	4241.6	4254.8	4250.4	4254.8
7.5°	4276.8	4241.6	4232.8	4206.4	4246.0	4272.4	4312.0	4422.0	4413.2	4426.4	4452.8
10°	4369.2	4329.6	4303.2	4342.8	4320.8	4404.4	4448.4	4505.5	4606.7	4611.1	4558.3
12.5°	4549.5	4523.1	4470.3	4479.1	4553.9	4580.3	4606.7	4641.9	4707.9	4694.7	4743.1
15°	4756.3	4699.1	4668.3	4659.5	4677.1	4707.9	4703.5	4738.7	4773.9	4804.7	4791.5
17.5°	4905.9	4831.1	4839.9	4883.9	4879.5	4870.7	4813.5	4795.9	4813.5	4831.1	4822.3
20°	5059.9	5068.7	5002.7	4963.1	4945.5	4857.5	4813.5	4760.7	4707.9	4734.3	4773.9
22.5°	5253.5	5213.9	5117.1	4998.3	4910.3	4857.5	4721.1	4628.7	4628.7	4655.1	4641.9
25°	5473.5	5389.9	5222.7	5007.1	4897.1	4672.7	4575.9	4562.7	4527.5	4567.1	4584.7
27.5°	5645.1	5570.3	5341.5	4976.3	4672.7	4492.3	4435.2	4417.6	4474.7	4479.1	4549.5
30°	5715.5	5693.5	5359.1	4897.1	4444.0	4153.6	4118.4	4197.6	4259.2	4351.6	4356.0
32.5°	5807.9	5816.7	5385.5	4712.3	4144.8	3854.4	3801.6	3898.4	4074.4	4149.2	4206.4
35°	5961.9	6005.9	5363.5	4483.5	3828.0	3550.8	3542.0	3568.4	3740.0	3872.0	3946.8
37.5°	6230.3	6221.5	5359.1	4210.8	3577.2	3286.8	3216.4	3225.2	3339.6	3449.6	3436.4
40°	6591.1	6555.9	5345.9	3854.4	3251.6	3062.4	2943.6	2899.6	2890.8	2860.0	2868.8
42.5°	7083.9	7013.5	5341.5	3493.6	2956.8	2754.4	2670.8	2556.4	2472.8	2314.4	2323.2
45°	7770.3	7647.1	5227.1	3154.8	2666.4	2499.2	2371.6	2288.0	2107.6	1909.6	1909.6
47.5°	8830.7	8430.3	5231.5	2780.8	2384.8	2248.4	2160.4	2015.2	1821.6	1663.2	1645.6
50°	10392.7	9477.5	5081.9	2486.0	2156.0	2063.6	1971.2	1804.0	1619.2	1509.2	1522.4
52.5°	12407.9	11039.5	5077.5	2222.0	1975.6	1909.6	1808.4	1658.8	1522.4	1452.0	1425.6
55°	14810.2	13107.5	5235.9	2006.4	1790.8	1755.6	1711.6	1588.4	1456.4	1394.8	1390.4
57.5°	17269.8	15127.0	5491.1	1852.4	1632.4	1658.8	1628.0	1531.2	1425.6	1355.2	1346.4
60°	19456.6	16728.6	4976.3	1667.6	1491.6	1548.8	1592.8	1509.2	1452.0	1447.6	1416.8
62.5°	21106.6	17415.0	3784.0	1526.8	1416.8	1522.4	1641.2	1694.0	1667.6	1702.8	1707.2
65°	21709.4	17001.4	2604.8	1452.0	1359.6	1584.0	1848.0	1830.4	1676.4	1610.4	1645.6
67.5°	20864.6	15325.0	1931.6	1364.0	1320.0	1711.6	1966.8	1746.8	1513.6	1504.8	1478.4
70°	17943.0	12988.7	1575.2	1271.6	1254.0	1641.2	1914.0	1619.2	1425.6	1368.4	1342.0
72°	14295.4	10115.5	1381.6	1205.6	1148.4	1465.2	1790.8	1518.0	1350.8	1280.4	1249.6
72.5°	13050.3	9376.3	1355.2	1174.8	1126.4	1425.6	1729.2	1487.2	1333.2	1271.6	1223.2
75°	7158.7	4800.3	1192.4	1078.0	950.4	1232.0	1601.6	1394.8	1258.4	1170.4	1161.6
77.5°	2662.0	1861.2	1029.6	954.8	822.8	1064.8	1456.4	1324.4	1144.0	1034.0	1012.0
80°	1020.8	981.2	840.4	805.2	690.8	932.8	1342.0	1188.0	972.4	862.4	827.2
82.5°	620.4	572.0	638.0	629.2	528.0	849.2	1262.8	1113.2	862.4	699.6	677.6
85°	338.8	338.8	444.4	426.8	369.6	677.6	954.8	739.2	545.6	448.8	457.6
87.5°	149.6	176.0	237.6	224.4	202.4	382.8	466.4	391.6	272.8	184.8	198.0
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)