

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: P478531

Luminaire Tested: **IFLD-M-SA4E-735-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478531
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-735-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

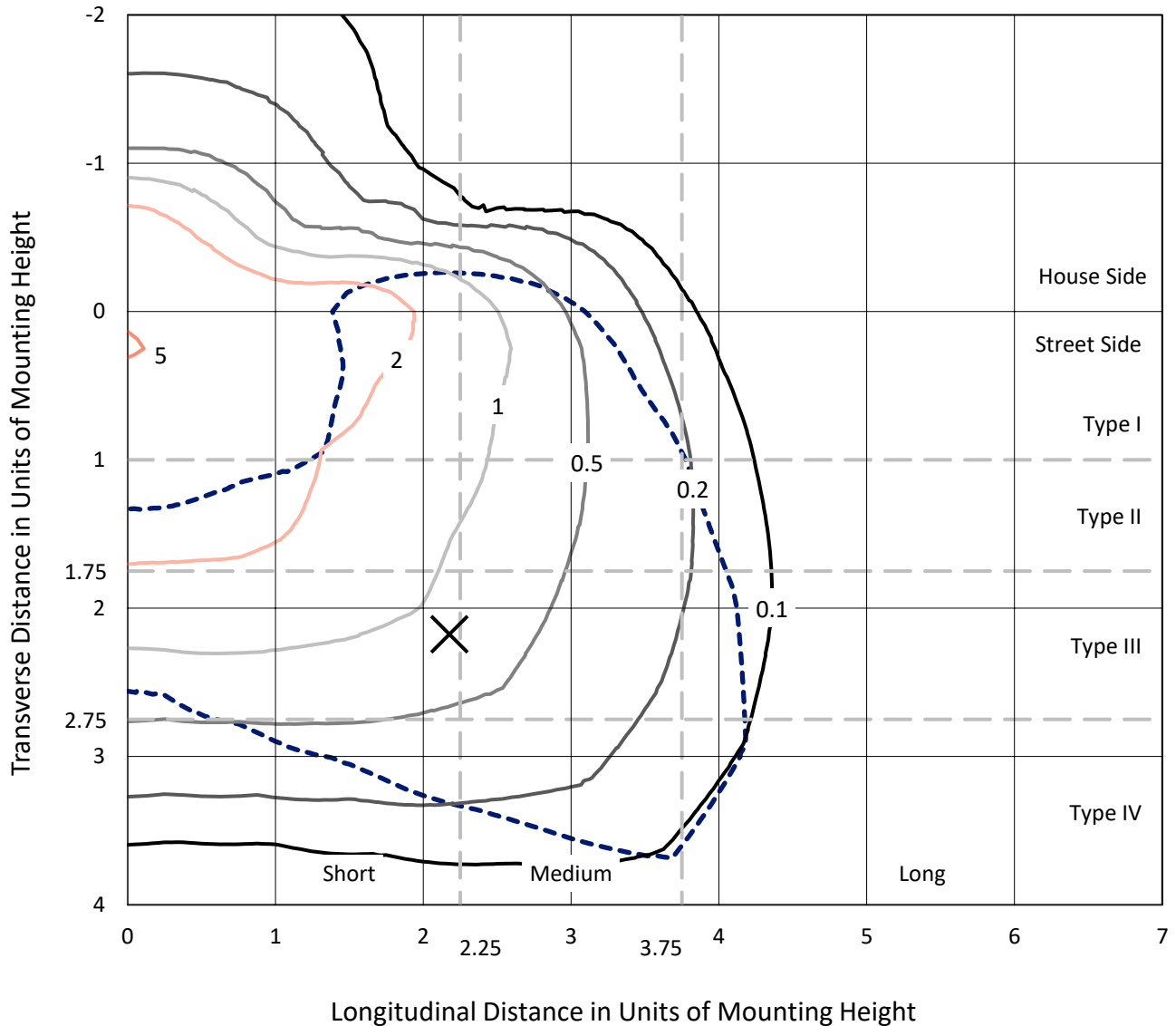
Lumens per Lamp: N/A
Luminaire Lumens: 36093.5 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8
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

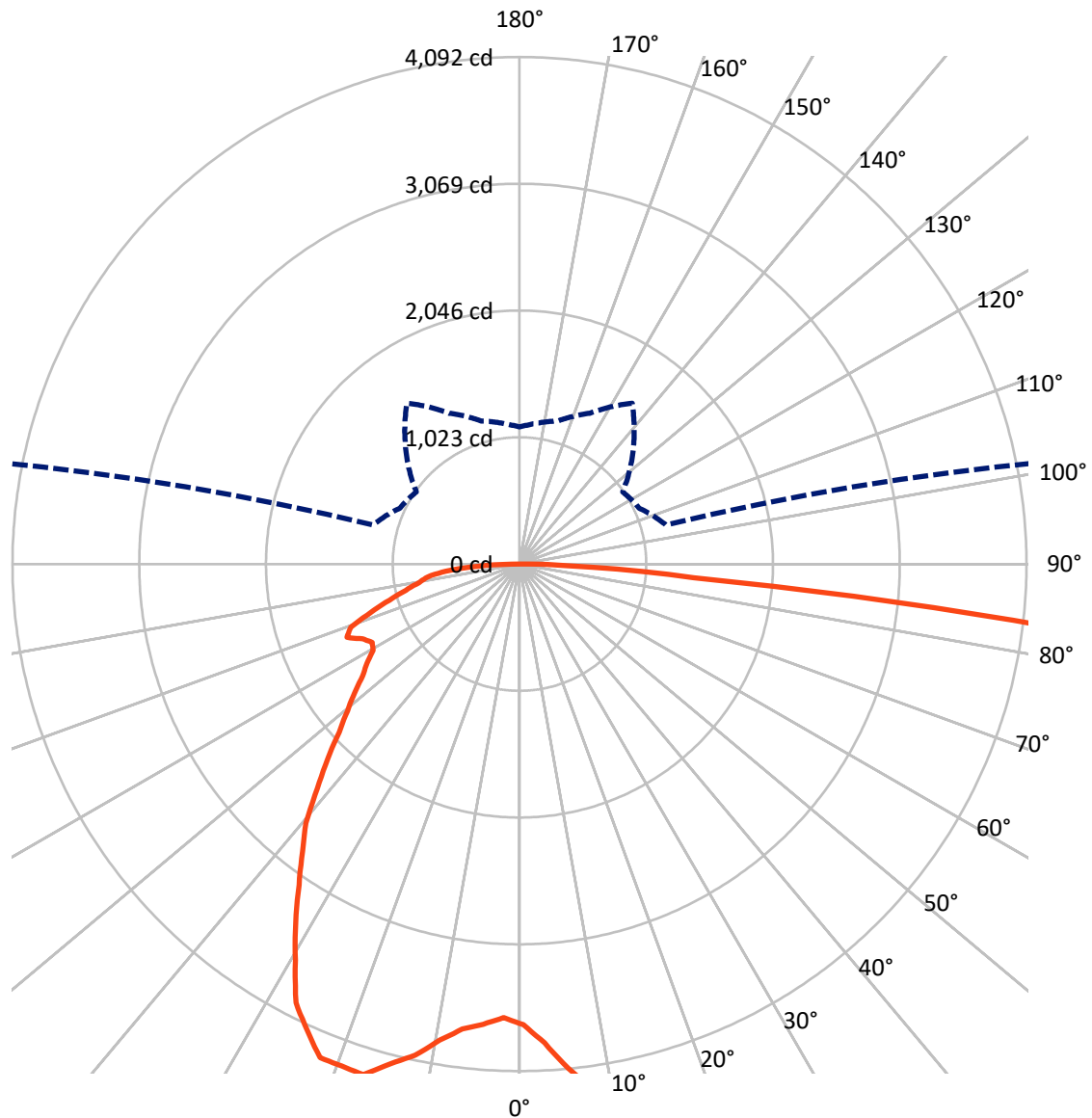
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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	8034.6	0.0	8034.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	28058.9	0.0	28058.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	36093.5	0.0	36093.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.3	1.1
10°-20°	1265.5	3.5
20°-30°	2137.0	5.9
30°-40°	2957.2	8.2
40°-50°	4230.1	11.7
50°-60°	6822.6	18.9
60°-70°	10062.4	27.9
70°-80°	7307.0	20.2
80°-90°	931.5	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°	36093.5	100.0
0°-180°	36093.5	100.0

Coefficient of Utilization



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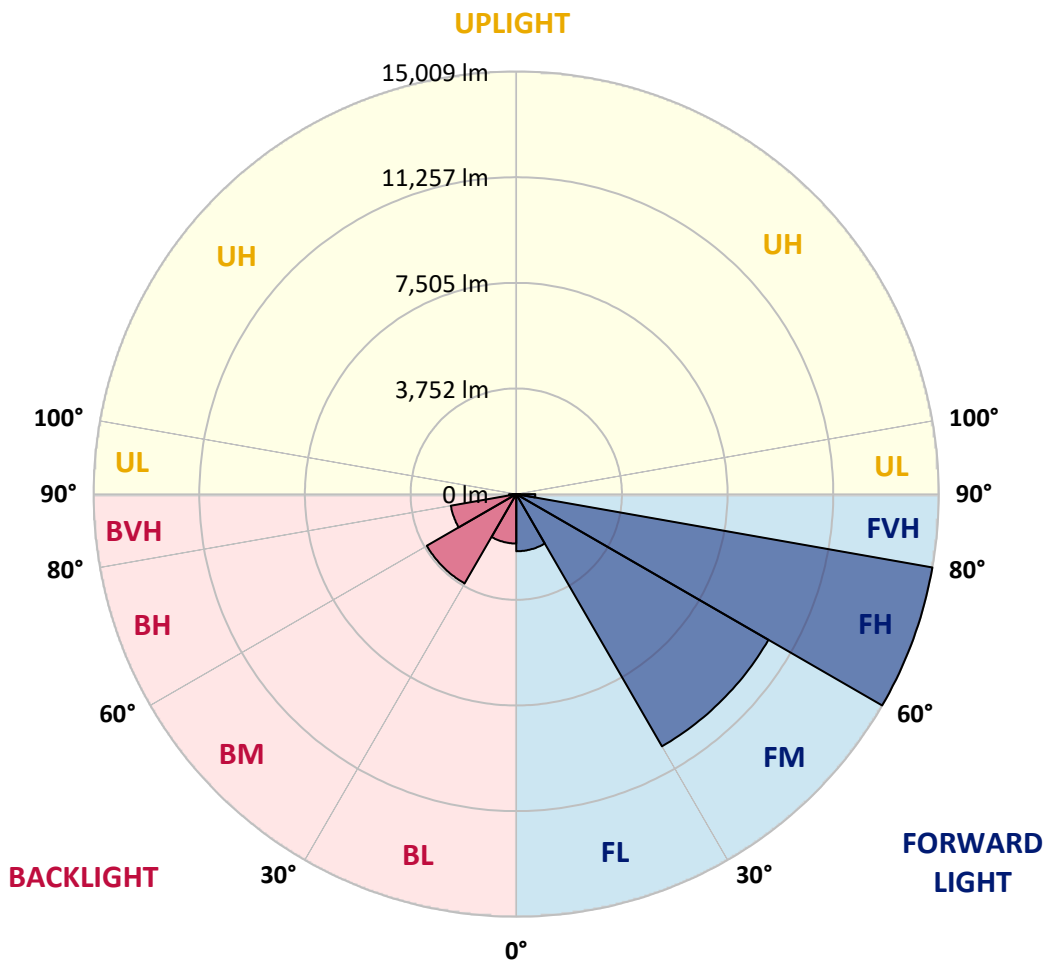
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2028.5	5.6			
FM (30°-60°)	10343.1	28.7			
FH (60°-80°)	15009.3	41.6			G5
FVH (80°-90°)	678.0	1.9			G4/750
BL (0°-30°)	1754.3	4.9	B3/2500		
BM (30°-60°)	3666.8	10.2	B3/5000		
BH (60°-80°)	2360.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	253.5	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°	3717.0	3717.0	3717.0	3717.0	3717.0	3717.0	3717.0	3717.0	3717.0	3717.0	3717.0
2.5°	3915.5	3938.8	3915.5	3911.6	3872.7	3845.4	3868.8	3833.7	3794.8	3779.3	3744.2
5°	4273.6	4277.4	4234.6	4238.5	4156.8	4071.2	4086.7	3981.6	3868.8	3826.0	3755.9
7.5°	4639.4	4596.6	4534.3	4514.9	4386.4	4293.0	4281.3	4187.9	4012.8	3915.5	3818.2
10°	4876.8	4892.4	4791.2	4705.6	4596.6	4483.7	4479.8	4304.7	4203.5	4059.5	3934.9
12.5°	5087.0	5090.9	5005.3	4869.0	4732.8	4592.7	4612.2	4534.3	4363.1	4226.8	4102.3
15°	5250.5	5227.1	5133.7	5009.2	4865.2	4756.2	4744.5	4678.3	4534.3	4421.5	4215.2
17.5°	5297.2	5285.5	5192.1	5059.8	4919.6	4837.9	4869.0	4760.1	4701.7	4600.5	4402.0
20°	5207.7	5180.4	5164.8	5016.9	4915.8	4908.0	4880.7	4904.1	4806.8	4713.4	4569.4
22.5°	5044.2	5032.5	5024.7	4908.0	4861.3	4896.3	4943.0	4978.0	4962.5	4872.9	4709.5
25°	4876.8	4931.3	4880.7	4826.2	4892.4	4981.9	4970.2	5083.1	5083.1	5055.9	4919.6
27.5°	4993.6	4958.6	4919.6	4892.4	4915.8	5055.9	5048.1	5184.3	5234.9	5184.3	5028.6
30°	5285.5	5250.5	5137.6	5016.9	4985.8	5137.6	5176.5	5297.2	5320.5	5196.0	5063.7
32.5°	5834.3	5814.8	5635.8	5281.6	5090.9	5176.5	5196.0	5332.2	5312.7	5234.9	5180.4
35°	6647.7	6581.6	6332.5	5733.1	5312.7	5227.1	5176.5	5285.5	5359.5	5320.5	5269.9
37.5°	7539.0	7465.1	7157.6	6398.7	5713.6	5363.3	5324.4	5413.9	5499.6	5480.1	5375.0
40°	8391.4	8391.4	8115.1	7231.6	6309.1	5694.2	5702.0	5600.8	5678.6	5643.6	5663.0
42.5°	9232.1	9201.0	9088.1	8208.5	6947.4	6246.9	6122.3	5869.3	6009.4	5997.8	6025.0
45°	10084.5	10061.1	10030.0	9119.2	7862.1	6994.1	6928.0	6472.6	6601.0	6546.6	6663.3
47.5°	10765.6	10792.9	10792.9	10135.1	8839.0	7990.5	7893.2	7173.2	7418.4	7445.6	7472.9
50°	11345.5	11357.2	11345.5	11104.2	9928.8	9130.9	8932.4	8200.7	8445.9	8660.0	8909.1
52.5°	12147.3	12162.9	12108.4	12015.0	11407.8	10329.7	10107.8	9294.4	9796.5	10022.2	10469.8
55°	13135.9	13019.2	12918.0	12988.0	12828.4	11649.1	11419.5	10423.1	11178.2	11477.9	12373.1
57.5°	13318.8	13420.0	13676.9	14233.5	14463.1	12933.5	12801.2	11808.7	12738.9	12999.7	14494.3
60°	13964.9	13797.6	14428.1	15634.7	15891.5	14607.1	14470.9	13326.6	14291.9	14564.3	16452.0
62.5°	14389.2	14381.4	15315.5	16747.8	17331.6	16343.0	16066.7	15299.9	15969.4	16234.1	18584.9
65°	14264.6	14377.5	16035.6	17401.7	18534.3	18316.3	18156.8	16996.9	17880.4	17857.1	19974.4
67.5°	13128.1	13447.3	15580.2	17872.6	20324.7	20721.7	20671.1	19382.8	19433.4	18939.1	20593.2
70°	11551.8	11442.8	13653.6	17382.2	21219.9	23574.6	23562.9	21157.6	20830.7	19176.5	18818.4
72°	8874.0	8753.4	10571.0	14926.3	20748.9	24715.0	25065.3	22387.5	20815.1	18191.8	15545.1
72.5°	8056.7	7951.6	9761.4	14050.6	20227.4	25010.8	24847.3	22434.2	20651.6	17728.6	14521.5
75°	3709.2	3588.5	4876.8	8601.6	15778.7	22161.8	22718.3	20994.1	18036.1	14112.8	8698.9
77.5°	1105.4	1070.3	1568.5	3471.8	9169.8	16327.5	16541.5	15840.9	12591.0	7729.8	3226.6
80°	615.0	618.8	809.6	1300.0	4032.2	9438.4	10209.0	9784.8	6176.8	2553.2	1074.2
82.5°	342.5	362.0	506.0	770.6	1852.7	4331.9	4662.8	4495.4	2234.1	1198.8	587.7
85°	179.0	186.8	264.7	412.6	1050.9	1370.0	1408.9	1510.1	1159.9	817.3	315.3
87.5°	70.1	70.1	97.3	171.3	389.2	424.2	381.4	463.2	665.6	529.3	155.7
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°	3717.0	3717.0	3717.0	3717.0	3717.0	3717.0	3717.0	3717.0	3717.0	3717.0	3717.0
2.5°	3775.4	3744.2	3740.3	3689.7	3705.3	3662.5	3666.4	3658.6	3662.5	3654.7	3635.2
5°	3755.9	3732.5	3666.4	3709.2	3670.3	3724.8	3767.6	3752.0	3763.7	3759.8	3763.7
7.5°	3783.1	3752.0	3744.2	3720.9	3755.9	3779.3	3814.3	3911.6	3903.8	3915.5	3938.8
10°	3864.9	3829.9	3806.5	3841.5	3822.1	3896.0	3934.9	3985.5	4075.1	4078.9	4032.2
12.5°	4024.5	4001.1	3954.4	3962.2	4028.3	4051.7	4075.1	4106.2	4164.6	4152.9	4195.7
15°	4207.4	4156.8	4129.5	4121.8	4137.3	4164.6	4160.7	4191.8	4223.0	4250.2	4238.5
17.5°	4339.7	4273.6	4281.3	4320.3	4316.4	4308.6	4258.0	4242.4	4258.0	4273.6	4265.8
20°	4475.9	4483.7	4425.3	4390.3	4374.7	4296.9	4258.0	4211.3	4164.6	4187.9	4223.0
22.5°	4647.2	4612.2	4526.5	4421.5	4343.6	4296.9	4176.2	4094.5	4094.5	4117.9	4106.2
25°	4841.8	4767.9	4620.0	4429.2	4331.9	4133.4	4047.8	4036.1	4005.0	4040.0	4055.6
27.5°	4993.6	4927.4	4725.0	4402.0	4133.4	3973.9	3923.3	3907.7	3958.3	3962.2	4024.5
30°	5055.9	5036.4	4740.6	4331.9	3931.0	3674.2	3643.0	3713.1	3767.6	3849.3	3853.2
32.5°	5137.6	5145.4	4764.0	4168.5	3666.4	3409.5	3362.8	3448.4	3604.1	3670.3	3720.9
35°	5273.8	5312.7	4744.5	3966.1	3386.1	3140.9	3133.2	3156.5	3308.3	3425.1	3491.2
37.5°	5511.2	5503.5	4740.6	3724.8	3164.3	2907.4	2845.1	2852.9	2954.1	3051.4	3039.7
40°	5830.4	5799.3	4728.9	3409.5	2876.3	2708.9	2603.8	2564.9	2557.1	2529.9	2537.7
42.5°	6266.3	6204.0	4725.0	3090.3	2615.5	2436.5	2362.5	2261.3	2187.4	2047.3	2055.0
45°	6873.5	6764.5	4623.8	2790.7	2358.6	2210.7	2097.9	2023.9	1864.3	1689.2	1689.2
47.5°	7811.5	7457.3	4627.7	2459.8	2109.5	1988.9	1911.0	1782.6	1611.3	1471.2	1455.7
50°	9193.2	8383.6	4495.4	2199.1	1907.1	1825.4	1743.7	1595.8	1432.3	1335.0	1346.7
52.5°	10975.8	9765.3	4491.5	1965.5	1747.6	1689.2	1599.7	1467.3	1346.7	1284.4	1261.0
55°	13100.9	11594.6	4631.6	1774.8	1584.1	1553.0	1514.0	1405.1	1288.3	1233.8	1229.9
57.5°	15276.6	13381.1	4857.4	1638.6	1444.0	1467.3	1440.1	1354.5	1261.0	1198.8	1191.0
60°	17211.0	14797.9	4402.0	1475.1	1319.4	1370.0	1408.9	1335.0	1284.4	1280.5	1253.3
62.5°	18670.5	15405.0	3347.2	1350.6	1253.3	1346.7	1451.8	1498.5	1475.1	1506.3	1510.1
65°	19203.7	15039.2	2304.1	1284.4	1202.7	1401.2	1634.7	1619.1	1482.9	1424.5	1455.7
67.5°	18456.5	13556.3	1708.6	1206.6	1167.6	1514.0	1739.8	1545.2	1338.9	1331.1	1307.8
70°	15872.1	11489.6	1393.4	1124.8	1109.3	1451.8	1693.1	1432.3	1261.0	1210.5	1187.1
72°	12645.5	8948.0	1222.1	1066.4	1015.8	1296.1	1584.1	1342.8	1194.9	1132.6	1105.4
72.5°	11544.0	8294.1	1198.8	1039.2	996.4	1261.0	1529.6	1315.5	1179.3	1124.8	1082.0
75°	6332.5	4246.3	1054.8	953.6	840.7	1089.8	1416.7	1233.8	1113.1	1035.3	1027.5
77.5°	2354.7	1646.4	910.8	844.6	727.8	941.9	1288.3	1171.5	1012.0	914.6	895.2
80°	903.0	867.9	743.4	712.3	611.1	825.1	1187.1	1050.9	860.2	762.9	731.7
82.5°	548.8	506.0	564.4	556.6	467.1	751.2	1117.0	984.7	762.9	618.8	599.4
85°	299.7	299.7	393.1	377.5	326.9	599.4	844.6	653.9	482.6	397.0	404.8
87.5°	132.3	155.7	210.2	198.5	179.0	338.6	412.6	346.4	241.3	163.5	175.1
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)