

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: P478538

Luminaire Tested: **IFLD-L-SA8B-735-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478538
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-735-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

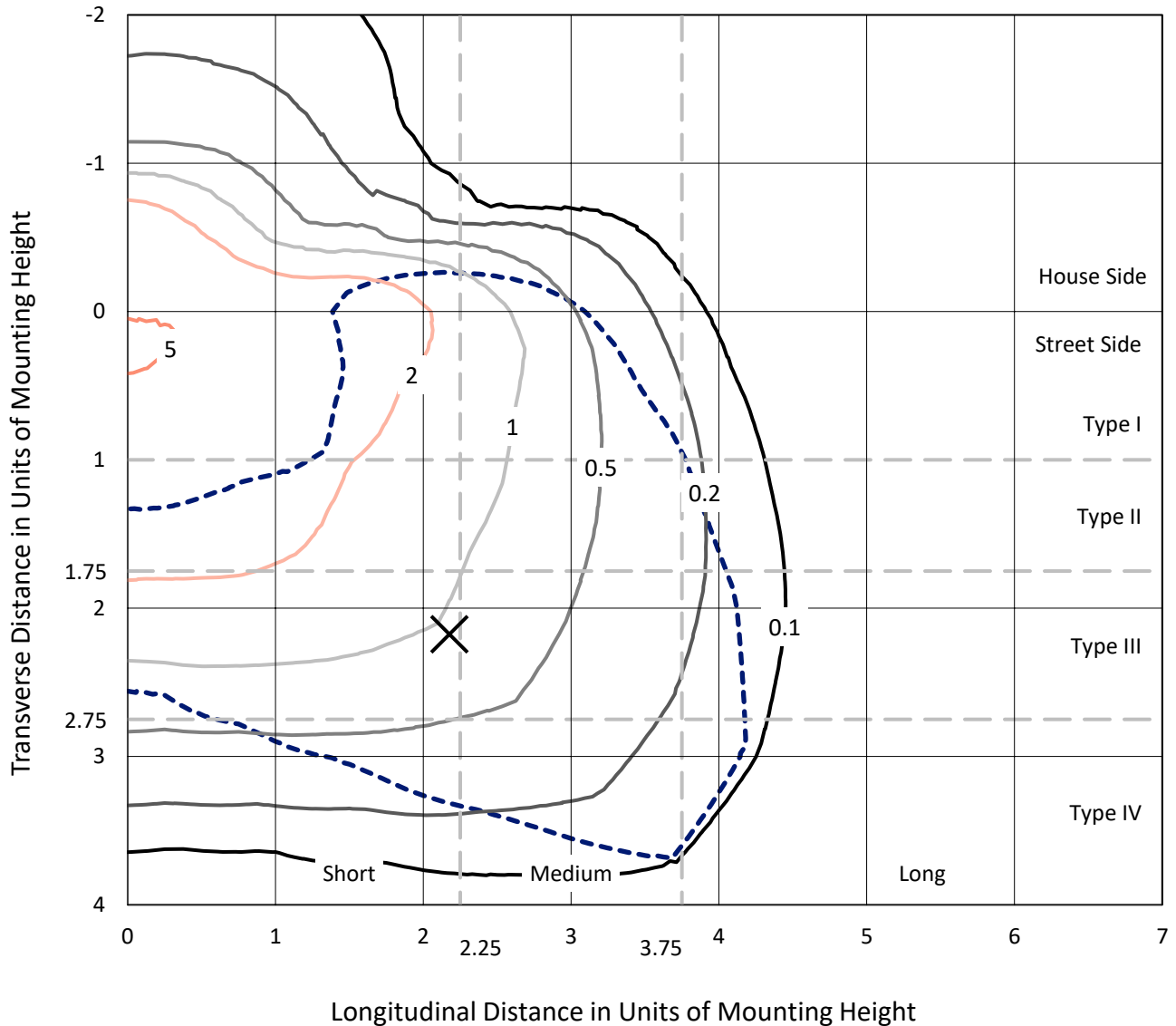
Lumens per Lamp: N/A
Luminaire Lumens: 40573.8 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 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

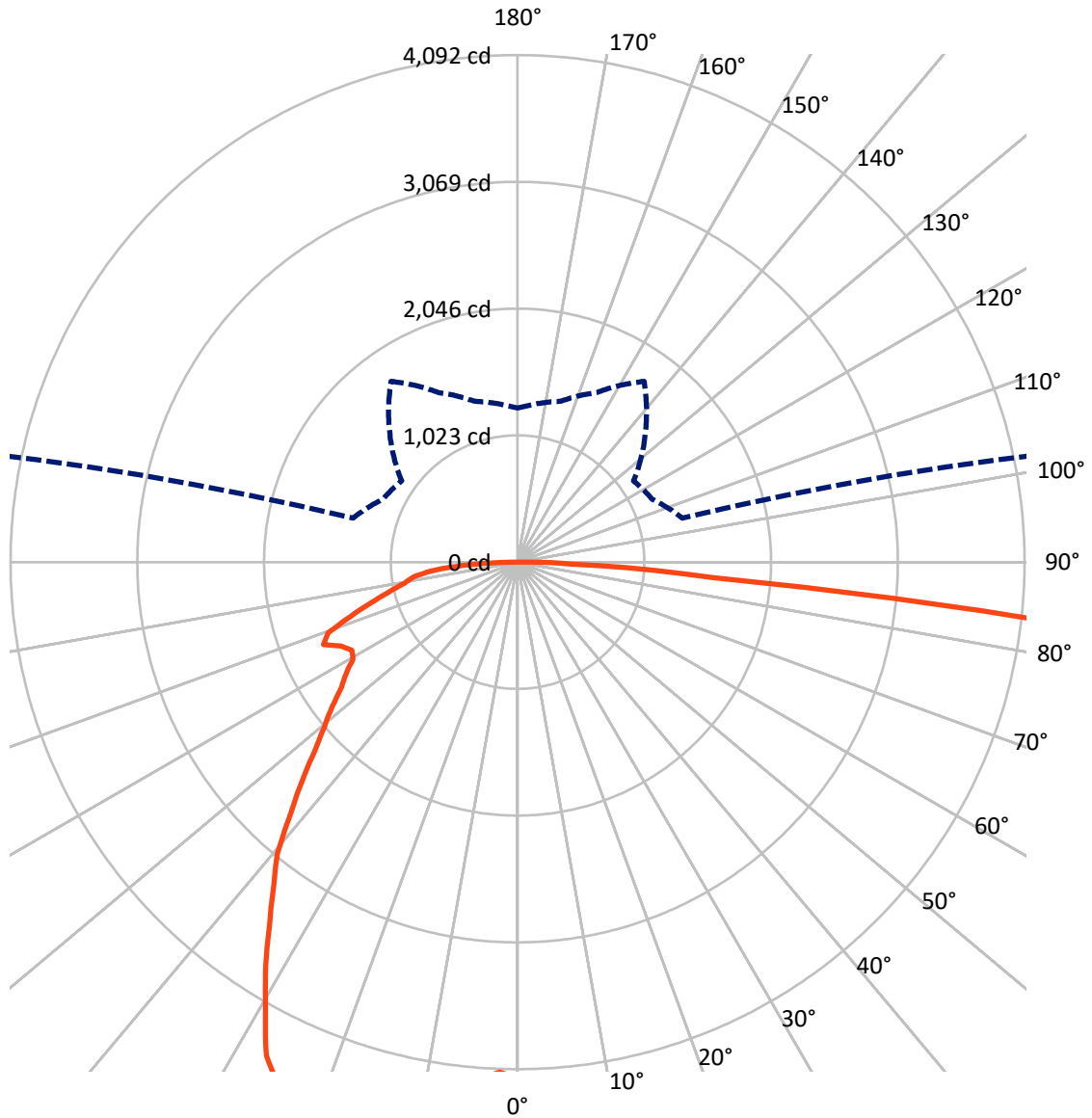
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 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	9032.0	0.0	9032.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	31541.9	0.0	31541.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	40573.8	0.0	40573.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.6	1.1
10°-20°	1422.5	3.5
20°-30°	2402.3	5.9
30°-40°	3324.3	8.2
40°-50°	4755.1	11.7
50°-60°	7669.5	18.9
60°-70°	11311.4	27.9
70°-80°	8214.0	20.2
80°-90°	1047.1	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°	40573.8	100.0
0°-180°	40573.8	100.0

Coefficient of Utilization



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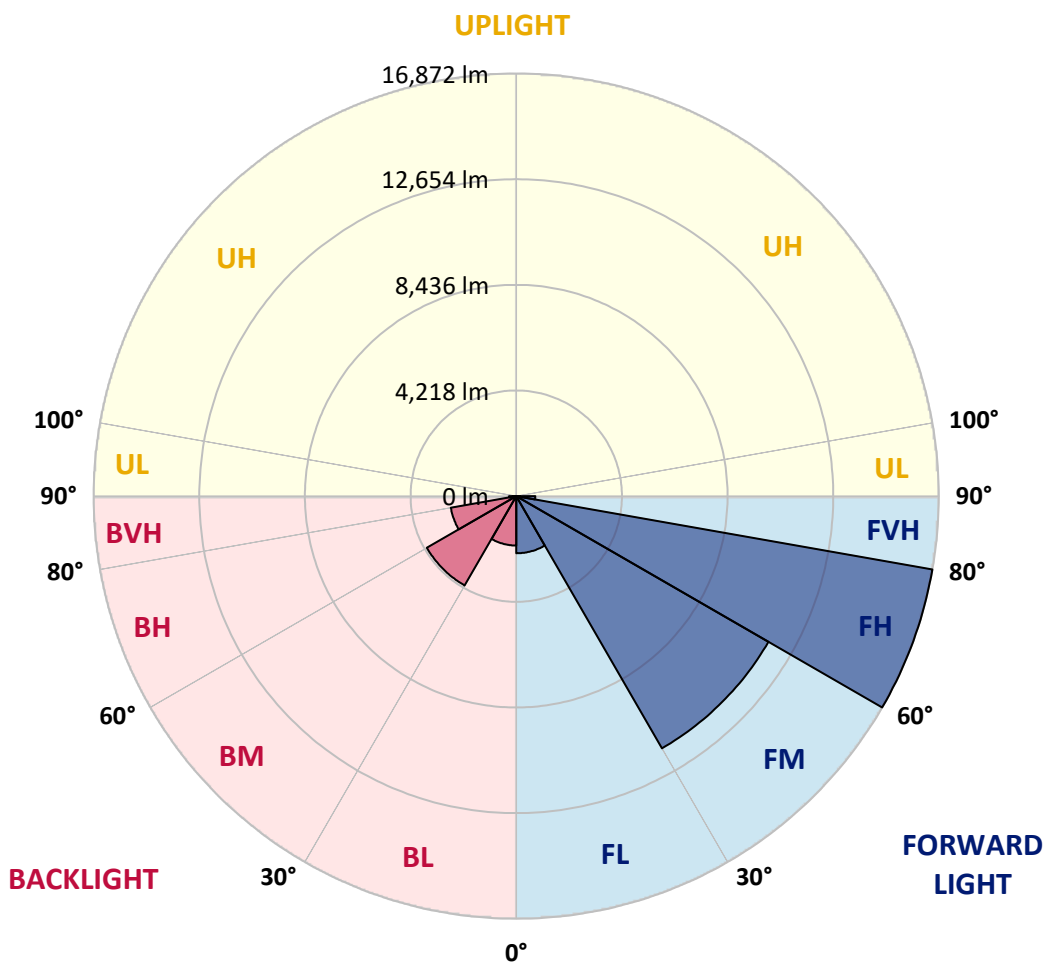
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2280.3	5.6			
FM (30°-60°)	11627.0	28.7			
FH (60°-80°)	16872.4	41.6			G5
FVH (80°-90°)	762.1	1.9			G5
BL (0°-30°)	1972.1	4.9	B3/2500		
BM (30°-60°)	4121.9	10.2	B3/5000		
BH (60°-80°)	2653.0	6.5	B4/5000		G4/5000
BVH (80°-90°)	285.0	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°	4178.4	4178.4	4178.4	4178.4	4178.4	4178.4	4178.4	4178.4	4178.4	4178.4	4178.4
2.5°	4401.5	4427.8	4401.5	4397.1	4353.4	4322.8	4349.0	4309.6	4265.9	4248.4	4209.0
5°	4804.0	4808.4	4760.3	4764.7	4672.8	4576.5	4594.0	4475.9	4349.0	4300.9	4222.1
7.5°	5215.3	5167.2	5097.2	5075.3	4930.9	4825.9	4812.8	4707.8	4510.9	4401.5	4292.1
10°	5482.2	5499.7	5385.9	5289.7	5167.2	5040.3	5035.9	4839.0	4725.3	4563.4	4423.4
12.5°	5718.5	5722.8	5626.6	5473.4	5320.3	5162.8	5184.7	5097.2	4904.7	4751.5	4611.5
15°	5902.2	5876.0	5771.0	5631.0	5469.1	5346.6	5333.4	5259.1	5097.2	4970.3	4738.4
17.5°	5954.7	5941.6	5836.6	5687.8	5530.3	5438.4	5473.4	5350.9	5285.3	5171.6	4948.4
20°	5854.1	5823.5	5806.0	5639.7	5525.9	5517.2	5486.6	5512.8	5403.4	5298.4	5136.6
22.5°	5670.3	5657.2	5648.5	5517.2	5464.7	5504.1	5556.6	5596.0	5578.5	5477.8	5294.1
25°	5482.2	5543.4	5486.6	5425.3	5499.7	5600.3	5587.2	5714.1	5714.1	5683.5	5530.3
27.5°	5613.5	5574.1	5530.3	5499.7	5525.9	5683.5	5674.7	5827.8	5884.7	5827.8	5652.8
30°	5941.6	5902.2	5775.3	5639.7	5604.7	5775.3	5819.1	5954.7	5981.0	5841.0	5692.2
32.5°	6558.5	6536.6	6335.4	5937.2	5722.8	5819.1	5841.0	5994.1	5972.2	5884.7	5823.5
35°	7472.9	7398.6	7118.5	6444.8	5972.2	5876.0	5819.1	5941.6	6024.7	5981.0	5924.1
37.5°	8474.9	8391.7	8046.1	7192.9	6422.9	6029.1	5985.3	6086.0	6182.2	6160.4	6042.2
40°	9433.1	9433.1	9122.4	8129.2	7092.3	6401.0	6409.7	6296.0	6383.5	6344.1	6366.0
42.5°	10378.1	10343.1	10216.2	9227.4	7809.8	7022.3	6882.3	6597.9	6755.4	6742.3	6772.9
45°	11336.3	11310.0	11275.0	10251.2	8838.0	7862.3	7788.0	7276.1	7420.4	7359.2	7490.4
47.5°	12102.0	12132.6	12132.6	11393.2	9936.2	8982.4	8873.0	8063.6	8339.2	8369.9	8400.5
50°	12753.9	12767.0	12753.9	12482.6	11161.3	10264.4	10041.2	9218.7	9494.3	9734.9	10015.0
52.5°	13655.2	13672.7	13611.4	13506.4	12823.9	11611.9	11362.5	10448.1	11012.5	11266.3	11769.4
55°	14766.5	14635.2	14521.5	14600.2	14420.8	13095.1	12837.0	11716.9	12565.7	12902.6	13908.9
57.5°	14972.1	15085.9	15374.6	16000.3	16258.5	14539.0	14390.2	13274.5	14320.2	14613.4	16293.5
60°	15698.4	15510.3	16219.1	17575.4	17864.2	16420.3	16267.2	14980.9	16065.9	16372.2	18494.2
62.5°	16175.3	16166.6	17216.6	18826.7	19483.0	18371.7	18061.1	17199.1	17951.7	18249.2	20891.8
65°	16035.3	16162.2	18026.1	19561.8	20835.0	20590.0	20410.6	19106.7	20099.9	20073.7	22453.8
67.5°	14757.7	15116.5	17514.1	20091.2	22847.6	23293.9	23237.0	21788.8	21845.7	21290.0	23149.5
70°	12985.8	12863.3	15348.4	19539.9	23853.9	26500.9	26487.8	23783.9	23416.4	21556.9	21154.4
72°	9975.6	9840.0	11883.2	16779.1	23324.5	27782.9	28176.6	25166.5	23398.9	20449.9	17474.8
72.5°	9056.8	8938.6	10973.1	15794.7	22738.2	28115.4	27931.6	25219.0	23215.1	19929.3	16324.1
75°	4169.6	4034.0	5482.2	9669.3	17737.3	24912.7	25538.4	23600.1	20274.9	15864.7	9778.7
77.5°	1242.6	1203.2	1763.2	3902.7	10308.1	18354.2	18594.8	17807.3	14154.0	8689.3	3627.1
80°	691.3	695.7	910.1	1461.3	4532.8	10610.0	11476.3	10999.4	6943.5	2870.2	1207.6
82.5°	385.0	406.9	568.8	866.3	2082.6	4869.7	5241.6	5053.4	2511.4	1347.6	660.7
85°	201.3	210.0	297.5	463.8	1181.3	1540.1	1583.8	1697.6	1303.8	918.8	354.4
87.5°	78.8	78.8	109.4	192.5	437.5	476.9	428.8	520.7	748.2	595.0	175.0
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°	4178.4	4178.4	4178.4	4178.4	4178.4	4178.4	4178.4	4178.4	4178.4	4178.4	4178.4
2.5°	4244.0	4209.0	4204.6	4147.7	4165.2	4117.1	4121.5	4112.7	4117.1	4108.4	4086.5
5°	4222.1	4195.9	4121.5	4169.6	4125.9	4187.1	4235.2	4217.7	4230.9	4226.5	4230.9
7.5°	4252.7	4217.7	4209.0	4182.7	4222.1	4248.4	4287.8	4397.1	4388.4	4401.5	4427.8
10°	4344.6	4305.3	4279.0	4318.4	4296.5	4379.6	4423.4	4480.3	4580.9	4585.3	4532.8
12.5°	4524.0	4497.8	4445.3	4454.0	4528.4	4554.6	4580.9	4615.9	4681.5	4668.4	4716.5
15°	4729.7	4672.8	4642.1	4633.4	4650.9	4681.5	4677.1	4712.2	4747.2	4777.8	4764.7
17.5°	4878.4	4804.0	4812.8	4856.5	4852.2	4843.4	4786.5	4769.0	4786.5	4804.0	4795.3
20°	5031.5	5040.3	4974.7	4935.3	4917.8	4830.3	4786.5	4734.0	4681.5	4707.8	4747.2
22.5°	5224.1	5184.7	5088.4	4970.3	4882.8	4830.3	4694.6	4602.8	4602.8	4629.0	4615.9
25°	5442.8	5359.7	5193.4	4979.0	4869.7	4646.5	4550.3	4537.1	4502.1	4541.5	4559.0
27.5°	5613.5	5539.1	5311.6	4948.4	4646.5	4467.1	4410.3	4392.8	4449.6	4454.0	4524.0
30°	5683.5	5661.6	5329.1	4869.7	4419.0	4130.2	4095.2	4174.0	4235.2	4327.1	4331.5
32.5°	5775.3	5784.1	5355.3	4685.9	4121.5	3832.7	3780.2	3876.5	4051.5	4125.9	4182.7
35°	5928.5	5972.2	5333.4	4458.4	3806.5	3530.8	3522.1	3548.3	3719.0	3850.2	3924.6
37.5°	6195.4	6186.6	5329.1	4187.1	3557.1	3268.3	3198.3	3207.1	3320.8	3430.2	3417.1
40°	6554.1	6519.1	5315.9	3832.7	3233.3	3045.2	2927.0	2883.3	2874.5	2843.9	2852.7
42.5°	7044.2	6974.2	5311.6	3474.0	2940.2	2738.9	2655.8	2542.0	2458.9	2301.4	2310.1
45°	7726.7	7604.2	5197.8	3137.1	2651.4	2485.1	2358.3	2275.1	2095.7	1898.9	1898.9
47.5°	8781.1	8383.0	5202.2	2765.2	2371.4	2235.8	2148.3	2003.9	1811.4	1653.8	1636.3
50°	10334.4	9424.3	5053.4	2472.0	2143.9	2052.0	1960.1	1793.9	1610.1	1500.7	1513.8
52.5°	12338.2	10977.5	5049.0	2209.5	1964.5	1898.9	1798.2	1649.5	1513.8	1443.8	1417.6
55°	14727.1	13033.9	5206.6	1995.1	1780.7	1745.7	1702.0	1579.5	1448.2	1387.0	1382.6
57.5°	17172.9	15042.1	5460.3	1842.0	1623.2	1649.5	1618.8	1522.6	1417.6	1347.6	1338.8
60°	19347.4	16634.7	4948.4	1658.2	1483.2	1540.1	1583.8	1500.7	1443.8	1439.5	1408.8
62.5°	20988.1	17317.3	3762.7	1518.2	1408.8	1513.8	1632.0	1684.5	1658.2	1693.2	1697.6
65°	21587.5	16906.0	2590.2	1443.8	1352.0	1575.1	1837.6	1820.1	1667.0	1601.3	1636.3
67.5°	20747.5	15239.0	1920.7	1356.3	1312.6	1702.0	1955.7	1737.0	1505.1	1496.3	1470.1
70°	17842.3	12915.8	1566.3	1264.4	1246.9	1632.0	1903.2	1610.1	1417.6	1360.7	1334.5
72°	14215.2	10058.7	1373.8	1198.8	1141.9	1457.0	1780.7	1509.5	1343.2	1273.2	1242.6
72.5°	12977.0	9323.7	1347.6	1168.2	1120.1	1417.6	1719.5	1478.8	1325.7	1264.4	1216.3
75°	7118.5	4773.4	1185.7	1071.9	945.1	1225.1	1592.6	1387.0	1251.3	1163.8	1155.1
77.5°	2647.0	1850.7	1023.8	949.4	818.2	1058.8	1448.2	1317.0	1137.6	1028.2	1006.3
80°	1015.1	975.7	835.7	800.7	686.9	927.6	1334.5	1181.3	966.9	857.6	822.5
82.5°	616.9	568.8	634.4	625.7	525.0	844.4	1255.7	1106.9	857.6	695.7	673.8
85°	336.9	336.9	441.9	424.4	367.5	673.8	949.4	735.0	542.5	446.3	455.0
87.5°	148.8	175.0	236.3	223.1	201.3	380.6	463.8	389.4	271.3	183.8	196.9
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)