

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: P478457

Luminaire Tested: **IFLD-L-SA7D-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478457
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

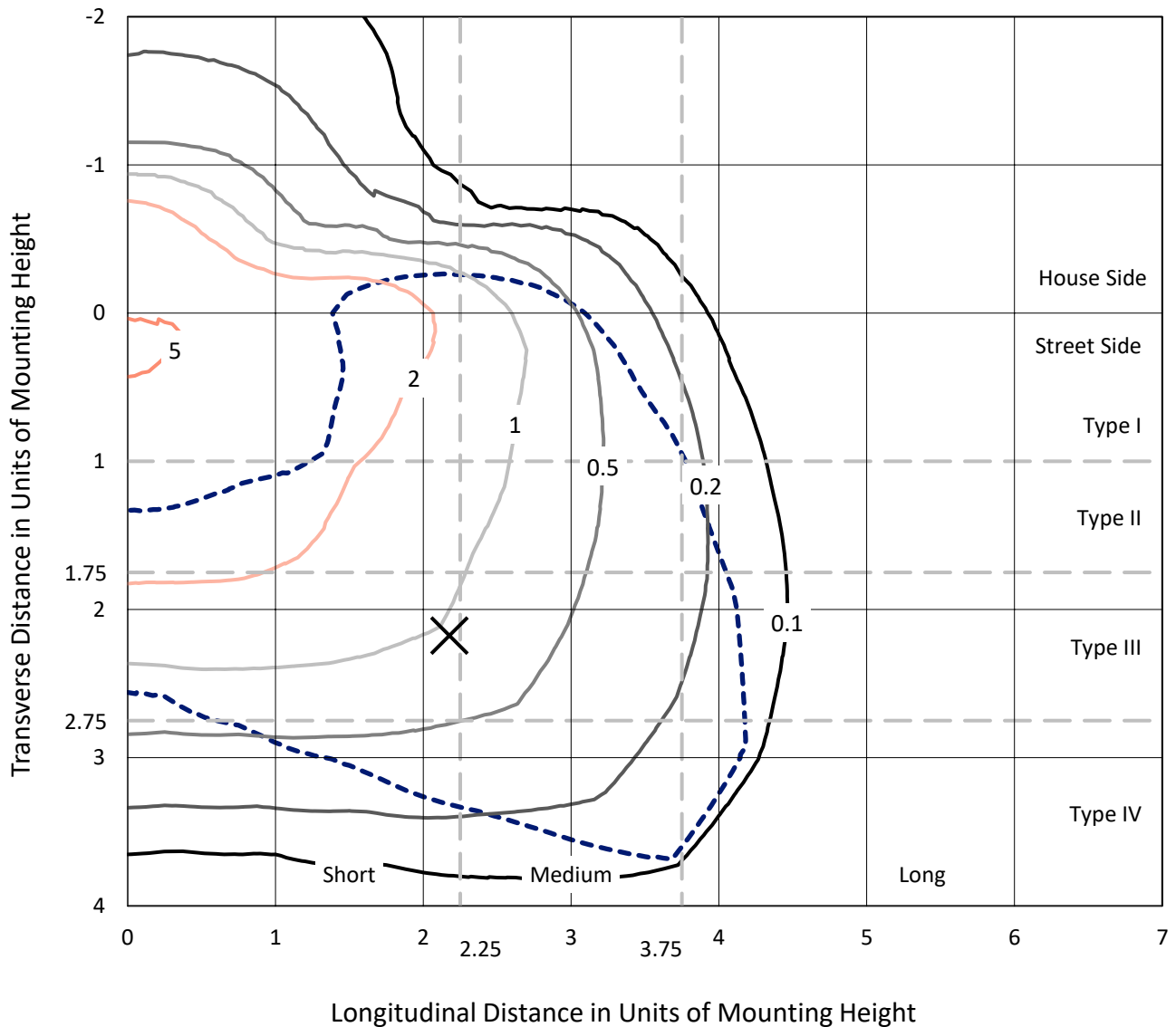
Lumens per Lamp: N/A
Luminaire Lumens: 41233.7 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 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

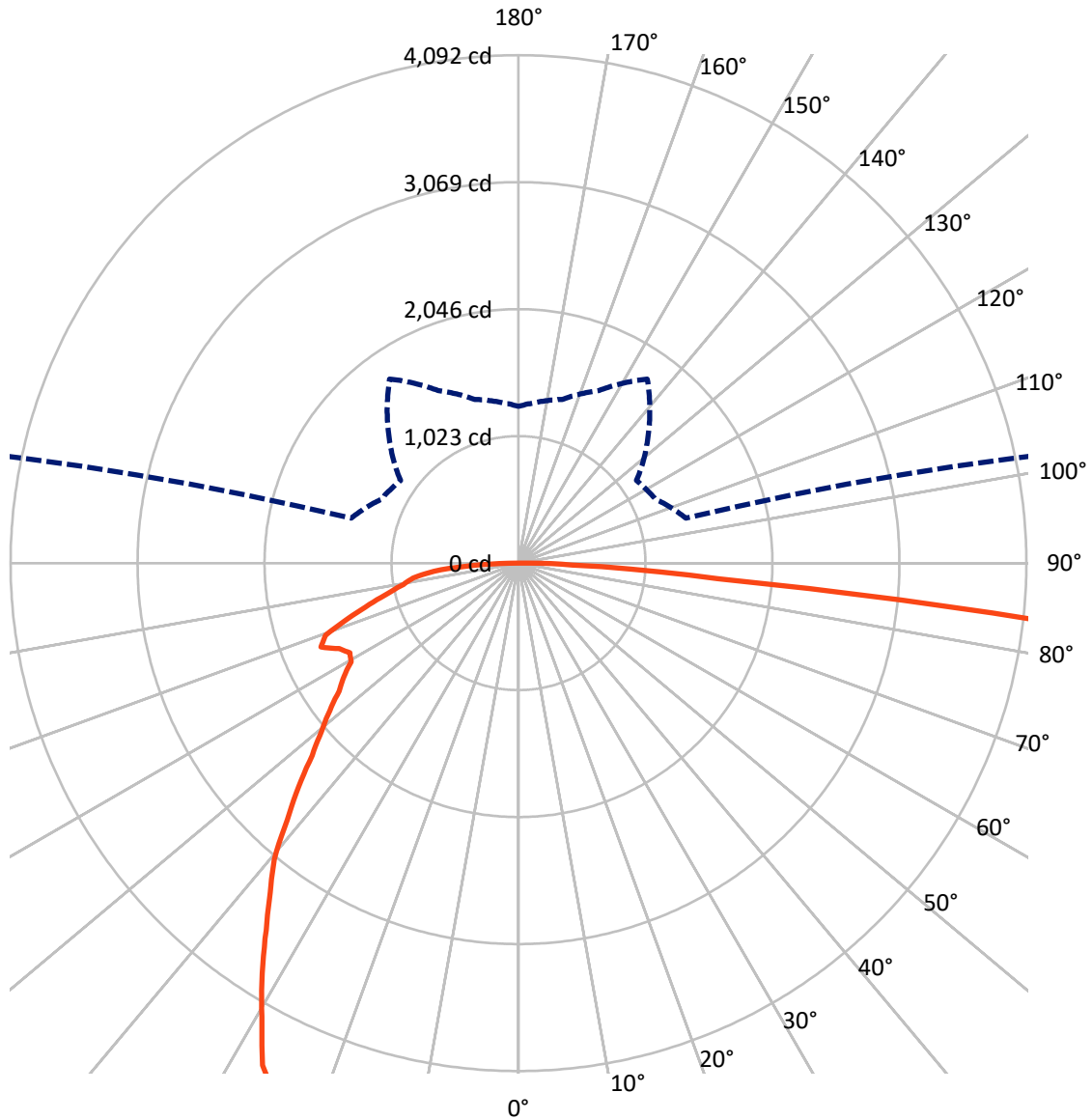
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 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	9178.9	0.0	9178.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	32054.8	0.0	32054.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	41233.7	0.0	41233.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.5	1.1
10°-20°	1445.7	3.5
20°-30°	2441.3	5.9
30°-40°	3378.4	8.2
40°-50°	4832.5	11.7
50°-60°	7794.2	18.9
60°-70°	11495.4	27.9
70°-80°	8347.6	20.2
80°-90°	1064.1	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°	41233.7	100.0
0°-180°	41233.7	100.0

Coefficient of Utilization



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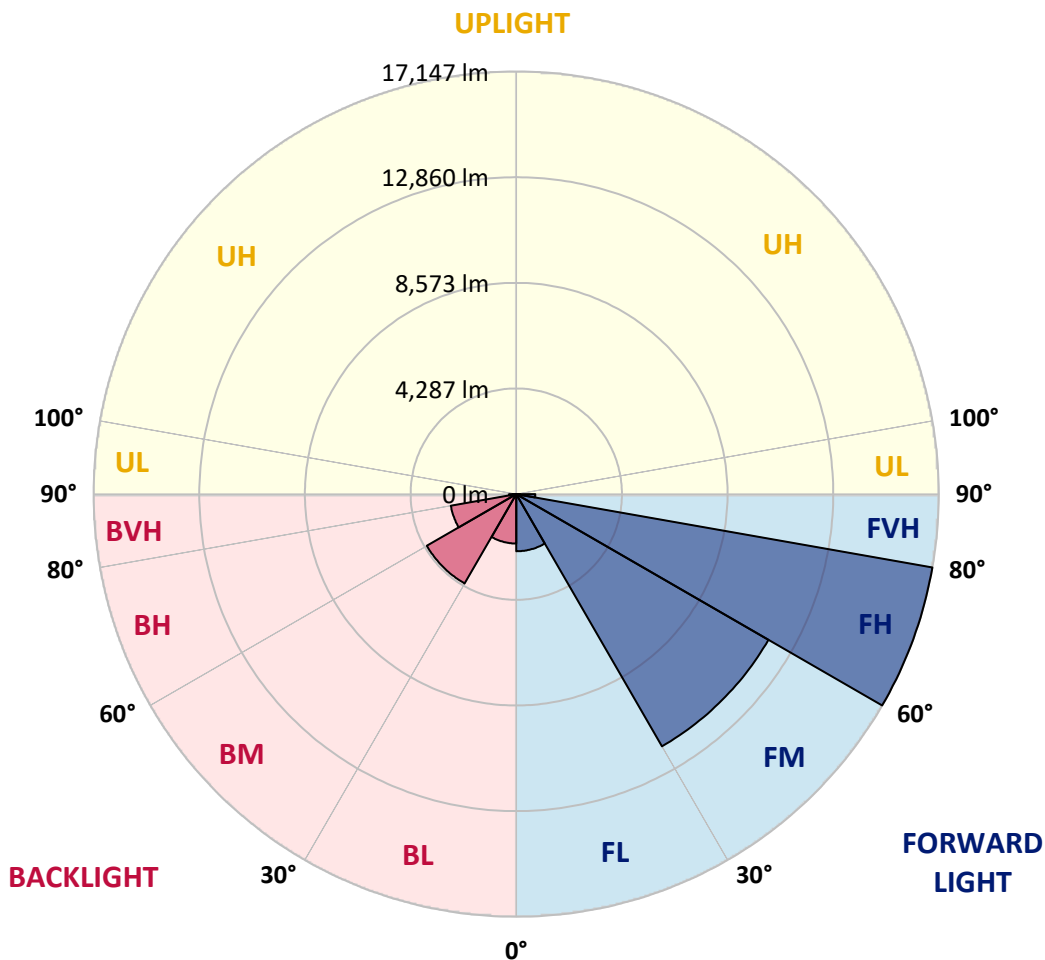
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2317.4	5.6			
FM (30°-60°)	11816.1	28.7			
FH (60°-80°)	17146.8	41.6			G5
FVH (80°-90°)	774.5	1.9			G5
BL (0°-30°)	2004.1	4.9	B3/2500		
BM (30°-60°)	4189.0	10.2	B3/5000		
BH (60°-80°)	2696.2	6.5	B4/5000		G4/5000
BVH (80°-90°)	289.6	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°	4246.3	4246.3	4246.3	4246.3	4246.3	4246.3	4246.3	4246.3	4246.3	4246.3	4246.3
2.5°	4473.1	4499.8	4473.1	4468.6	4424.2	4393.1	4419.7	4379.7	4335.3	4317.5	4277.4
5°	4882.2	4886.6	4837.7	4842.1	4748.8	4650.9	4668.7	4548.7	4419.7	4370.8	4290.8
7.5°	5300.1	5251.2	5180.1	5157.8	5011.1	4904.4	4891.1	4784.3	4584.3	4473.1	4361.9
10°	5571.4	5589.1	5473.5	5375.7	5251.2	5122.3	5117.8	4917.7	4802.1	4637.6	4495.3
12.5°	5811.5	5815.9	5718.1	5562.5	5406.8	5246.8	5269.0	5180.1	4984.4	4828.8	4686.5
15°	5998.2	5971.5	5864.8	5722.5	5558.0	5433.5	5420.2	5344.6	5180.1	5051.1	4815.5
17.5°	6051.6	6038.2	5931.5	5780.3	5620.3	5526.9	5562.5	5438.0	5371.3	5255.7	5028.9
20°	5949.3	5918.2	5900.4	5731.4	5615.8	5606.9	5575.8	5602.5	5491.3	5384.6	5220.1
22.5°	5762.5	5749.2	5740.3	5606.9	5553.6	5593.6	5646.9	5687.0	5669.2	5566.9	5380.2
25°	5571.4	5633.6	5575.8	5513.6	5589.1	5691.4	5678.1	5807.0	5807.0	5775.9	5620.3
27.5°	5704.7	5664.7	5620.3	5589.1	5615.8	5775.9	5767.0	5922.6	5980.4	5922.6	5744.8
30°	6038.2	5998.2	5869.3	5731.4	5695.9	5869.3	5913.7	6051.6	6078.2	5936.0	5784.8
32.5°	6665.2	6642.9	6438.4	6033.8	5815.9	5913.7	5936.0	6091.6	6069.4	5980.4	5918.2
35°	7594.5	7518.9	7234.3	6549.6	6069.4	5971.5	5913.7	6038.2	6122.7	6078.2	6020.4
37.5°	8612.7	8528.2	8177.0	7309.9	6527.3	6127.2	6082.7	6185.0	6282.8	6260.5	6140.5
40°	9586.5	9586.5	9270.8	8261.4	7207.6	6505.1	6514.0	6398.4	6487.3	6447.3	6469.5
42.5°	10546.9	10511.3	10382.4	9377.5	7936.8	7136.5	6994.2	6705.2	6865.3	6851.9	6883.0
45°	11520.7	11494.0	11458.4	10417.9	8981.8	7990.2	7914.6	7394.4	7541.1	7478.9	7612.3
47.5°	12298.8	12329.9	12329.9	11578.5	10097.8	9128.5	9017.3	8194.7	8474.9	8506.0	8537.1
50°	12961.3	12974.6	12961.3	12685.6	11342.8	10431.3	10204.5	9368.6	9648.7	9893.3	10177.8
52.5°	13877.3	13895.0	13832.8	13726.1	13032.4	11800.8	11547.3	10618.0	11191.6	11449.5	11960.8
55°	15006.6	14873.2	14757.6	14837.7	14655.4	13308.1	13045.8	11907.5	12770.1	13112.5	14135.1
57.5°	15215.6	15331.2	15624.7	16260.5	16522.9	14775.4	14624.2	13490.4	14553.1	14851.0	16558.4
60°	15953.7	15762.5	16482.8	17861.2	18154.7	16687.4	16531.8	15224.5	16327.2	16638.5	18795.0
62.5°	16438.4	16429.5	17496.6	19132.9	19799.9	18670.5	18354.8	17478.8	18243.6	18546.0	21231.6
65°	16296.1	16425.0	18319.2	19879.9	21173.8	20924.8	20742.5	19417.5	20426.8	20400.1	22819.0
67.5°	14997.7	15362.4	17799.0	20417.9	23219.2	23672.7	23614.9	22143.1	22200.9	21636.2	23526.0
70°	13197.0	13072.5	15598.0	19857.7	24241.8	26931.9	26918.6	24170.7	23797.2	21907.5	21498.4
72°	10137.8	10000.0	12076.5	17052.0	23703.8	28234.7	28634.9	25575.8	23779.4	20782.5	17759.0
72.5°	9204.1	9084.0	11151.6	16051.5	23108.0	28572.6	28385.9	25629.1	23592.7	20253.4	16589.6
75°	4237.4	4099.6	5571.4	9826.6	18025.8	25317.9	25953.7	23983.9	20604.7	16122.7	9937.7
77.5°	1262.8	1222.8	1791.9	3966.2	10475.7	18652.7	18897.3	18096.9	14384.1	8830.6	3686.1
80°	702.5	707.0	924.9	1485.1	4606.5	10782.5	11662.9	11178.3	7056.5	2916.8	1227.2
82.5°	391.3	413.5	578.0	880.4	2116.5	4948.9	5326.8	5135.6	2552.2	1369.5	671.4
85°	204.5	213.4	302.4	471.3	1200.5	1565.1	1609.6	1725.2	1325.0	933.7	360.2
87.5°	80.0	80.0	111.2	195.6	444.6	484.7	435.7	529.1	760.3	604.7	177.9
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°	4246.3	4246.3	4246.3	4246.3	4246.3	4246.3	4246.3	4246.3	4246.3	4246.3	4246.3
2.5°	4313.0	4277.4	4273.0	4215.2	4233.0	4184.1	4188.5	4179.6	4184.1	4175.2	4152.9
5°	4290.8	4264.1	4188.5	4237.4	4193.0	4255.2	4304.1	4286.3	4299.7	4295.2	4299.7
7.5°	4321.9	4286.3	4277.4	4250.8	4290.8	4317.5	4357.5	4468.6	4459.8	4473.1	4499.8
10°	4415.3	4375.3	4348.6	4388.6	4366.4	4450.9	4495.3	4553.1	4655.4	4659.8	4606.5
12.5°	4597.6	4570.9	4517.6	4526.4	4602.0	4628.7	4655.4	4691.0	4757.7	4744.3	4793.2
15°	4806.6	4748.8	4717.6	4708.8	4726.5	4757.7	4753.2	4788.8	4824.4	4855.5	4842.1
17.5°	4957.7	4882.2	4891.1	4935.5	4931.1	4922.2	4864.4	4846.6	4864.4	4882.2	4873.3
20°	5113.4	5122.3	5055.6	5015.6	4997.8	4908.8	4864.4	4811.0	4757.7	4784.3	4824.4
22.5°	5309.0	5269.0	5171.2	5051.1	4962.2	4908.8	4771.0	4677.6	4677.6	4704.3	4691.0
25°	5531.3	5446.9	5277.9	5060.0	4948.9	4722.1	4624.3	4610.9	4575.4	4615.4	4633.2
27.5°	5704.7	5629.2	5397.9	5028.9	4722.1	4539.8	4482.0	4464.2	4522.0	4526.4	4597.6
30°	5775.9	5753.7	5415.7	4948.9	4490.9	4197.4	4161.8	4241.9	4304.1	4397.5	4401.9
32.5°	5869.3	5878.2	5442.4	4762.1	4188.5	3895.1	3841.7	3939.5	4117.4	4193.0	4250.8
35°	6024.9	6069.4	5420.2	4530.9	3868.4	3588.3	3579.4	3606.0	3779.5	3912.8	3988.4
37.5°	6296.1	6287.2	5415.7	4255.2	3614.9	3321.5	3250.3	3259.2	3374.8	3486.0	3472.6
40°	6660.7	6625.2	5402.4	3895.1	3285.9	3094.7	2974.6	2930.2	2921.3	2890.2	2899.1
42.5°	7158.7	7087.6	5397.9	3530.5	2988.0	2783.5	2699.0	2583.4	2498.9	2338.8	2347.7
45°	7852.4	7727.9	5282.3	3188.1	2694.5	2525.6	2396.6	2312.1	2129.8	1929.7	1929.7
47.5°	8923.9	8519.3	5286.8	2810.1	2410.0	2272.1	2183.2	2036.5	1840.8	1680.7	1663.0
50°	10502.4	9577.6	5135.6	2512.2	2178.7	2085.4	1992.0	1823.0	1636.3	1525.1	1538.5
52.5°	12538.9	11156.0	5131.2	2245.4	1996.4	1929.7	1827.5	1676.3	1538.5	1467.3	1440.6
55°	14966.6	13245.9	5291.2	2027.6	1809.7	1774.1	1729.7	1605.2	1471.8	1409.5	1405.1
57.5°	17452.2	15286.8	5549.1	1871.9	1649.6	1676.3	1645.2	1547.4	1440.6	1369.5	1360.6
60°	19662.0	16905.3	5028.9	1685.2	1507.3	1565.1	1609.6	1525.1	1467.3	1462.9	1431.7
62.5°	21329.4	17598.9	3823.9	1542.9	1431.7	1538.5	1658.5	1711.9	1685.2	1720.8	1725.2
65°	21938.6	17180.9	2632.3	1467.3	1373.9	1600.7	1867.5	1849.7	1694.1	1627.4	1663.0
67.5°	21084.9	15486.9	1952.0	1378.4	1333.9	1729.7	1987.5	1765.2	1529.6	1520.7	1494.0
70°	18132.5	13125.8	1591.8	1285.0	1267.2	1658.5	1934.2	1636.3	1440.6	1382.8	1356.2
72°	14446.4	10222.3	1396.2	1218.3	1160.5	1480.7	1809.7	1534.0	1365.0	1293.9	1262.8
72.5°	13188.1	9475.3	1369.5	1187.2	1138.3	1440.6	1747.4	1502.9	1347.3	1285.0	1236.1
75°	7234.3	4851.0	1205.0	1089.4	960.4	1245.0	1618.5	1409.5	1271.7	1182.7	1173.9
77.5°	2690.1	1880.8	1040.5	964.9	831.5	1076.0	1471.8	1338.4	1156.1	1044.9	1022.7
80°	1031.6	991.5	849.3	813.7	698.1	942.6	1356.2	1200.5	982.7	871.5	835.9
82.5°	626.9	578.0	644.7	635.8	533.6	858.2	1276.1	1124.9	871.5	707.0	684.7
85°	342.4	342.4	449.1	431.3	373.5	684.7	964.9	747.0	551.4	453.5	462.4
87.5°	151.2	177.9	240.1	226.8	204.5	386.8	471.3	395.7	275.7	186.7	200.1
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)