

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: P481425

Luminaire Tested: **IFLD-L-SA8C-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481425
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

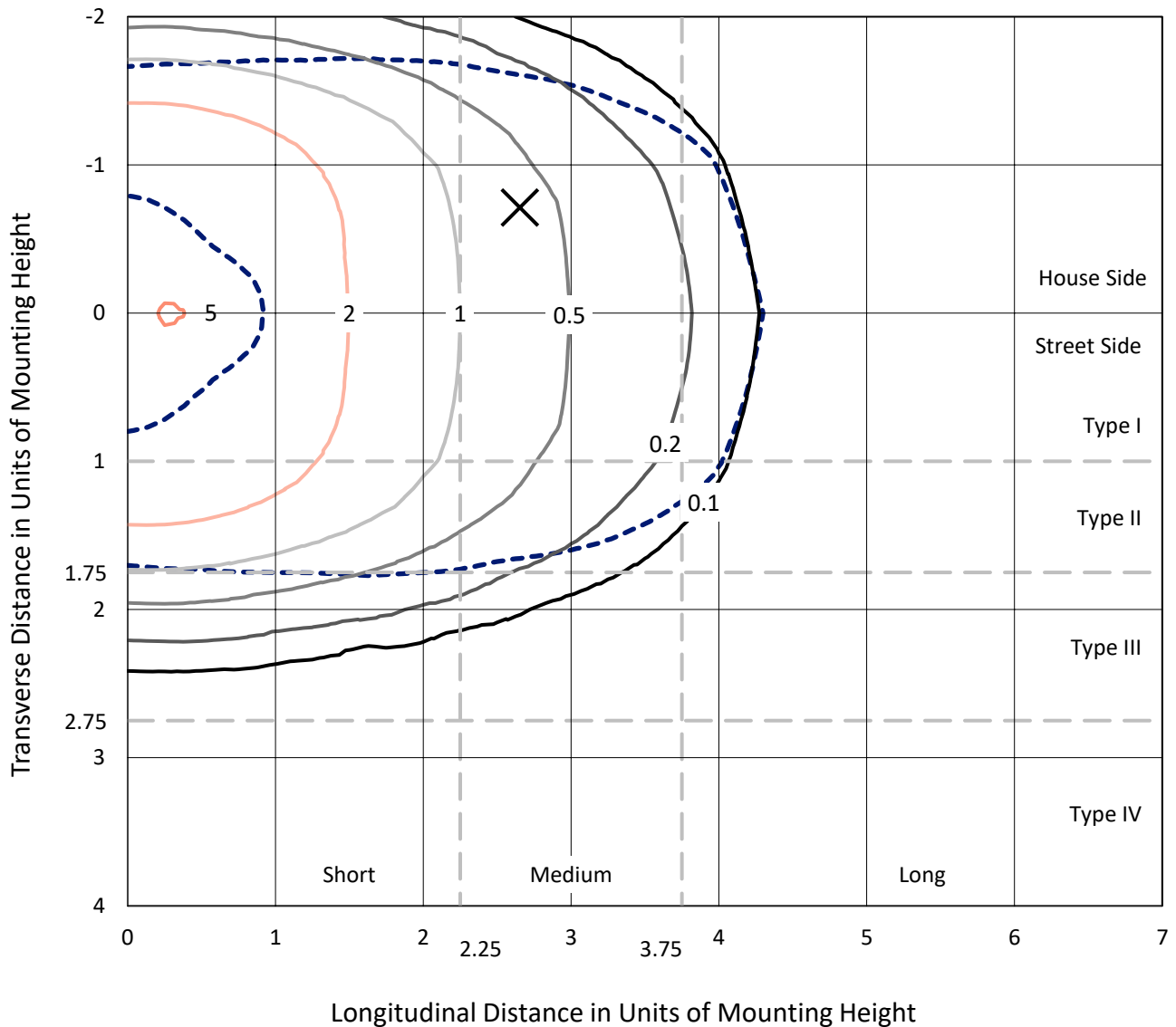
Lumens per Lamp: N/A
Luminaire Lumens: 38361.4 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 420.3
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

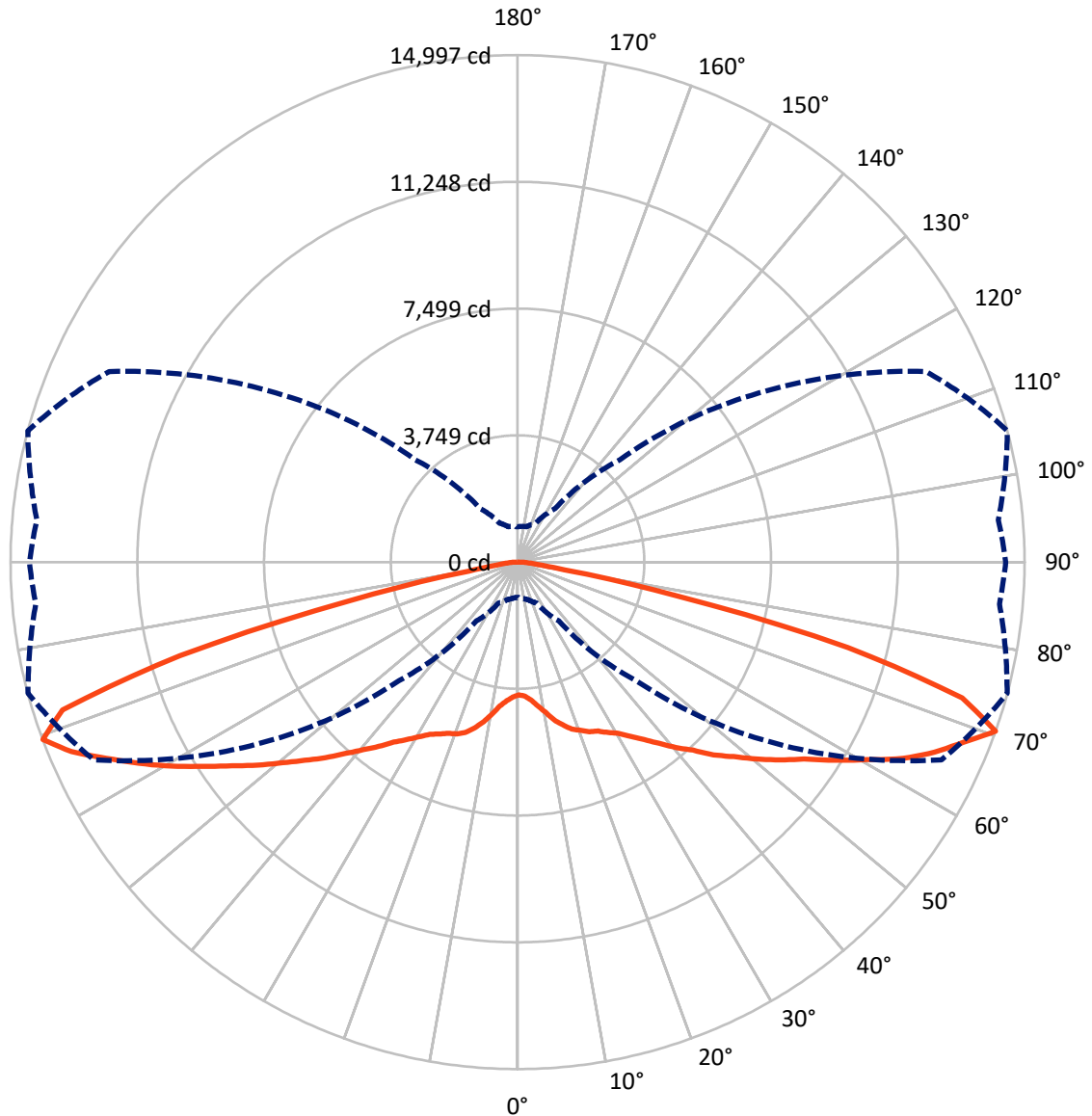
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19044.2	0.0	19044.2
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	19317.2	0.0	19317.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	38361.4	0.0	38361.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.0	1.0
10°-20°	1331.3	3.5
20°-30°	2577.8	6.7
30°-40°	4360.1	11.4
40°-50°	6955.7	18.1
50°-60°	9520.8	24.8
60°-70°	8974.0	23.4
70°-80°	3953.3	10.3
80°-90°	297.4	0.8
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°	38361.4	100.0
0°-180°	38361.4	100.0

Coefficient of Utilization

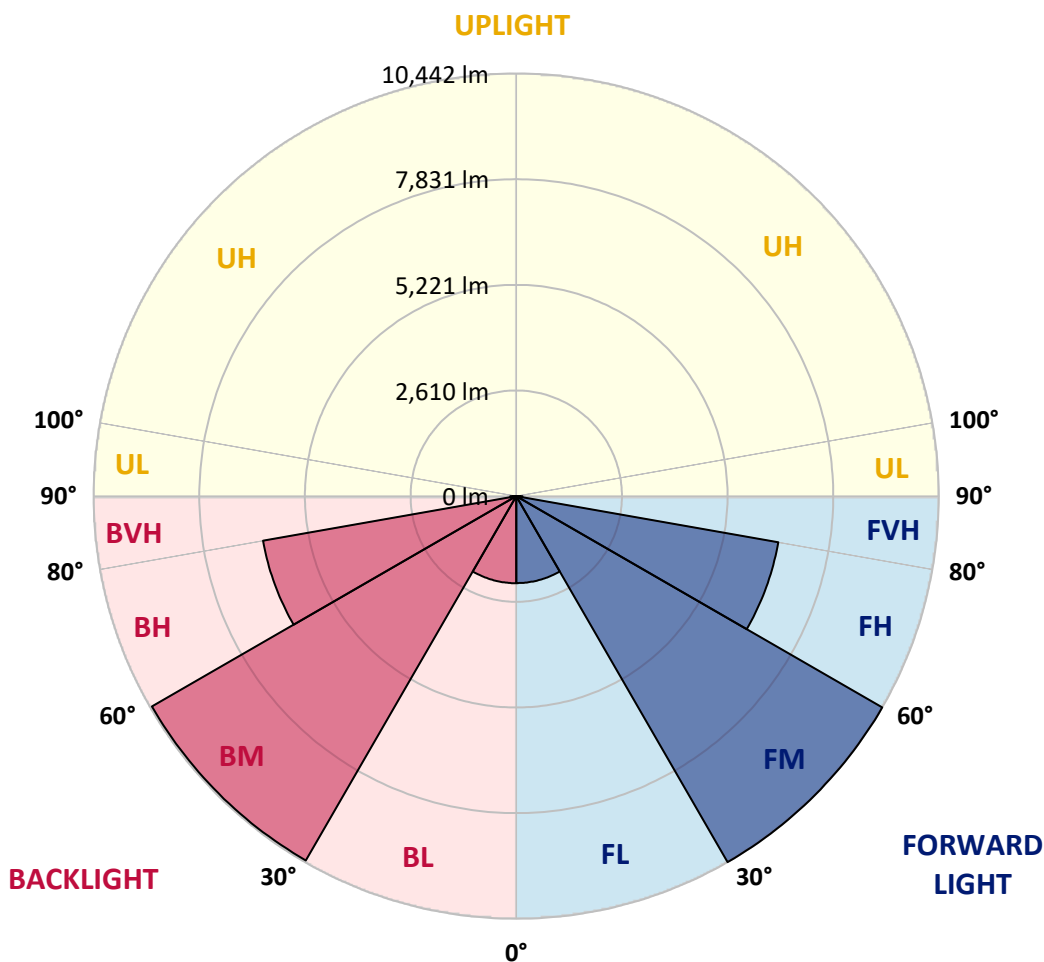


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2148.9	5.6			
FM (30°-60°)	10441.6	27.2			
FH (60°-80°)	6574.7	17.1			G3/7500
FVH (80°-90°)	151.9	0.4			G2/225
BL (0°-30°)	2151.2	5.6	B3/2500		
BM (30°-60°)	10395.0	27.1	B5		
BH (60°-80°)	6352.6	16.6	B5		G5
BVH (80°-90°)	145.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2
2.5°	3903.4	3903.4	3899.2	3919.9	3940.6	3948.8	3965.4	3969.5	3994.3	3973.7	4015.0
5°	3891.0	3886.8	3919.9	3969.5	3969.5	4023.3	4056.4	4101.8	4114.2	4139.0	4147.3
7.5°	3977.8	3969.5	3953.0	4006.7	4052.2	4134.9	4180.4	4259.0	4287.9	4321.0	4358.2
10°	4031.5	4031.5	4015.0	4110.1	4151.5	4263.1	4362.3	4440.9	4552.5	4589.8	4593.9
12.5°	4039.8	4052.2	4101.8	4225.9	4341.7	4486.4	4560.8	4709.7	4821.3	4891.6	4916.4
15°	4163.9	4139.0	4192.8	4362.3	4531.9	4660.0	4792.4	4899.9	5061.1	5152.1	5210.0
17.5°	4275.5	4250.7	4349.9	4552.5	4726.2	4924.7	5040.5	5156.2	5272.0	5354.7	5358.8
20°	4453.3	4474.0	4560.8	4780.0	5007.4	5181.0	5313.4	5334.0	5391.9	5511.8	5491.2
22.5°	4672.5	4655.9	4837.9	5077.7	5325.8	5470.5	5544.9	5491.2	5462.2	5590.4	5619.3
25°	4891.6	4941.2	5106.6	5329.9	5627.6	5822.0	5842.6	5693.8	5586.3	5631.8	5619.3
27.5°	5226.5	5234.8	5408.5	5673.1	5975.0	6144.5	6132.1	5921.2	5714.5	5718.6	5726.9
30°	5656.6	5615.2	5805.4	6045.2	6343.0	6496.0	6516.6	6214.8	5937.7	5855.0	5875.7
32.5°	6070.1	6119.7	6285.1	6558.0	6777.1	6864.0	6818.5	6549.7	6190.0	6078.3	6090.7
35°	6599.3	6591.1	6818.5	7050.0	7215.4	7232.0	7194.8	6801.9	6462.9	6318.2	6260.3
37.5°	7165.8	7240.2	7389.1	7579.3	7753.0	7761.2	7558.6	7244.4	6826.7	6586.9	6657.2
40°	7798.4	7881.1	7988.7	8265.7	8393.9	8261.6	8054.8	7628.9	7194.8	6983.9	7017.0
42.5°	8356.7	8393.9	8613.0	8939.7	9001.7	8943.8	8637.8	8121.0	7616.5	7385.0	7401.5
45°	8869.4	8919.0	9204.3	9497.9	9642.6	9543.4	9187.8	8695.7	8108.6	7910.1	7831.5
47.5°	9340.8	9440.0	9717.1	10018.9	10242.2	10250.5	9812.2	9216.7	8596.5	8336.0	8331.9
50°	9659.2	9803.9	10076.8	10420.0	10746.6	10874.8	10436.5	9795.6	9129.9	8852.9	8823.9
52.5°	9832.8	9981.7	10254.6	10788.0	11151.9	11350.3	11143.6	10337.3	9754.3	9464.8	9419.3
55°	9621.9	9721.2	10167.8	10916.2	11478.5	11805.2	11668.7	11085.7	10374.5	10138.8	10180.2
57.5°	8724.7	8931.4	9481.4	10415.9	11470.3	12272.4	12260.0	11792.8	11089.8	10866.6	10874.8
60°	7182.3	7356.0	8034.1	9340.8	11007.1	12462.6	12900.9	12479.2	11892.0	11631.5	11623.2
62.5°	5069.4	5288.6	6074.2	7500.7	9642.6	12198.0	13636.9	13343.4	12677.6	12487.4	12557.7
65°	2836.6	2968.9	3696.6	4986.7	7347.7	10742.5	13769.3	14240.6	13475.7	13186.2	13198.6
67.5°	1517.5	1567.1	1906.2	2617.4	4494.7	8282.2	12433.7	14757.5	14339.9	13839.6	13761.0
70°	1042.0	1058.5	1145.4	1339.7	2125.3	4953.6	9378.0	13835.4	14989.1	14306.8	14439.1
72.5°	880.7	872.5	893.1	913.8	1112.3	2216.3	5503.6	10647.4	14149.7	13893.3	13843.7
75°	765.0	760.8	769.1	748.4	773.2	975.8	2435.5	6636.5	10358.0	11561.2	11747.3
77.5°	632.6	636.8	640.9	620.2	612.0	645.0	980.0	2915.1	5098.4	5627.6	6070.1
80°	479.7	487.9	521.0	500.3	467.2	471.4	578.9	975.8	1463.8	1327.3	1368.7
82.5°	326.7	330.8	401.1	376.3	351.5	318.4	372.1	504.5	570.6	434.2	380.4
85°	231.6	227.4	260.5	239.8	223.3	161.3	223.3	285.3	343.2	215.0	194.3
87.5°	53.8	53.8	107.5	86.8	82.7	66.2	86.8	111.6	148.9	95.1	86.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2	3928.2
2.5°	4002.6	3965.4	3965.4	3957.1	3924.0	3915.8	3886.8	3895.1	3874.4	3853.7
5°	4143.2	4093.6	4093.6	4023.3	3957.1	3948.8	3915.8	3915.8	3882.7	3891.0
7.5°	4337.5	4292.0	4217.6	4155.6	4064.6	4027.4	3965.4	3957.1	3948.8	3932.3
10°	4569.1	4511.2	4436.8	4308.6	4234.2	4163.9	4101.8	4015.0	3994.3	3998.5
12.5°	4883.3	4792.4	4631.1	4519.5	4424.4	4333.4	4242.4	4114.2	4085.3	4097.7
15°	5106.6	4990.8	4829.6	4788.2	4660.0	4548.4	4399.5	4254.8	4205.2	4192.8
17.5°	5288.6	5193.5	5098.4	5036.3	4933.0	4796.5	4589.8	4424.4	4312.7	4300.3
20°	5437.4	5313.4	5292.7	5329.9	5201.7	5110.8	4858.5	4655.9	4507.1	4445.0
22.5°	5528.4	5449.8	5507.7	5540.8	5532.5	5379.5	5119.0	4883.3	4697.3	4639.4
25°	5627.6	5536.7	5743.4	5855.0	5884.0	5631.8	5429.1	5119.0	4937.1	4899.9
27.5°	5677.2	5710.3	5950.1	6185.8	6165.2	5970.8	5697.9	5420.9	5276.2	5210.0
30°	5822.0	5875.7	6239.6	6504.2	6508.4	6318.2	6111.4	5797.2	5635.9	5606.9
32.5°	6082.5	6148.6	6537.3	6818.5	6868.1	6723.4	6516.6	6322.3	6156.9	6090.7
35°	6280.9	6450.5	6888.8	7145.1	7277.5	7190.6	7074.8	6872.2	6698.6	6640.7
37.5°	6566.2	6801.9	7223.7	7571.0	7719.9	7711.6	7624.8	7405.6	7260.9	7211.3
40°	6975.6	7211.3	7595.8	8054.8	8331.9	8319.4	8269.8	8100.3	7885.3	7860.5
42.5°	7409.8	7604.1	8104.4	8629.6	9026.5	8985.2	8852.9	8654.4	8505.5	8472.4
45°	7831.5	8133.4	8596.5	9270.5	9568.2	9671.6	9514.4	9175.4	9005.8	8985.2
47.5°	8360.8	8600.6	9179.5	9783.2	10225.6	10242.2	9973.4	9659.2	9349.0	9415.2
50°	8832.2	9150.6	9737.7	10399.3	10928.6	10738.4	10395.2	10002.4	9779.1	9692.2
52.5°	9336.6	9725.3	10407.6	11081.6	11375.2	11184.9	10626.7	10188.4	9849.4	9812.2
55°	10072.7	10275.3	11168.4	11685.3	11780.4	11379.3	10556.4	9936.2	9497.9	9390.4
57.5°	10821.1	11056.8	11838.3	12284.8	12185.6	11271.8	10101.6	9142.3	8567.5	8414.6
60°	11577.8	11867.2	12524.7	12934.0	12421.3	10531.6	8815.6	7579.3	6909.4	6773.0
62.5°	12421.3	12797.6	13384.7	13529.4	11722.5	9067.9	6996.3	5470.5	4792.4	4564.9
65°	13169.7	13554.3	14277.9	13405.4	10238.0	6764.7	4523.6	3126.0	2625.7	2443.7
67.5°	13785.8	14220.0	14575.6	11863.1	7496.6	3961.2	2356.9	1645.7	1459.6	1393.5
70°	14273.7	14997.3	13335.1	8720.5	4283.8	1931.0	1273.6	1083.3	1058.5	1042.0
72.5°	13847.8	13752.7	9956.9	5032.2	1877.3	1062.7	922.1	893.1	889.0	893.1
75°	11325.5	10101.6	5954.3	2187.4	942.8	769.1	765.0	752.6	773.2	773.2
77.5°	5495.3	4804.8	2489.2	938.6	620.2	603.7	624.4	624.4	624.4	624.4
80°	1273.6	1410.0	889.0	570.6	450.7	450.7	496.2	500.3	479.7	471.4
82.5°	434.2	578.9	487.9	359.7	297.7	334.9	376.3	384.5	318.4	322.5
85°	215.0	339.1	264.6	206.7	153.0	206.7	244.0	256.4	219.2	210.9
87.5°	99.2	148.9	99.2	70.3	53.8	74.4	70.3	57.9	33.1	33.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)