

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: P479358

Luminaire Tested: **IFLD-L-SA8C-740-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479358
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

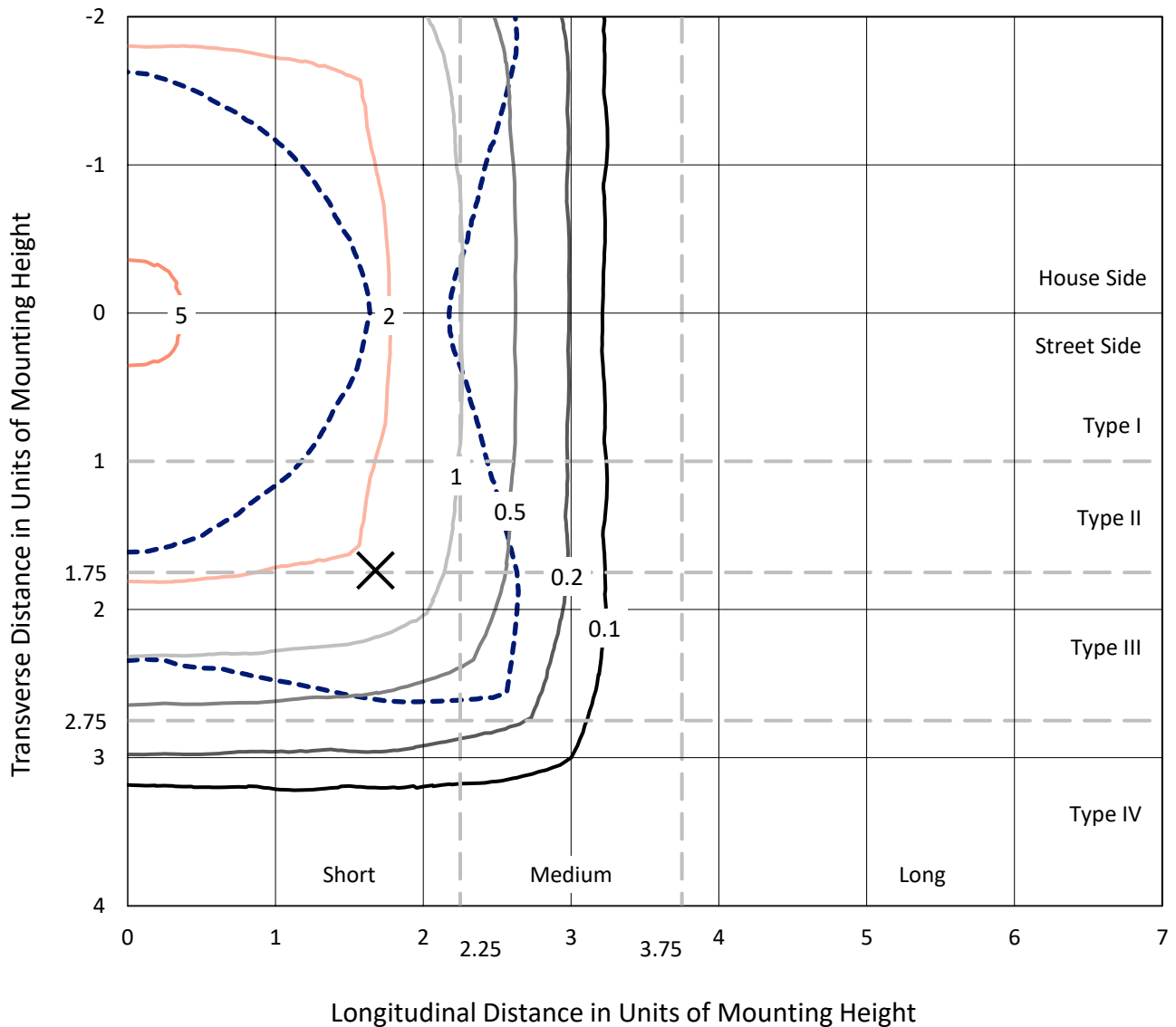
Lumens per Lamp: N/A
Luminaire Lumens: 51140.7 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

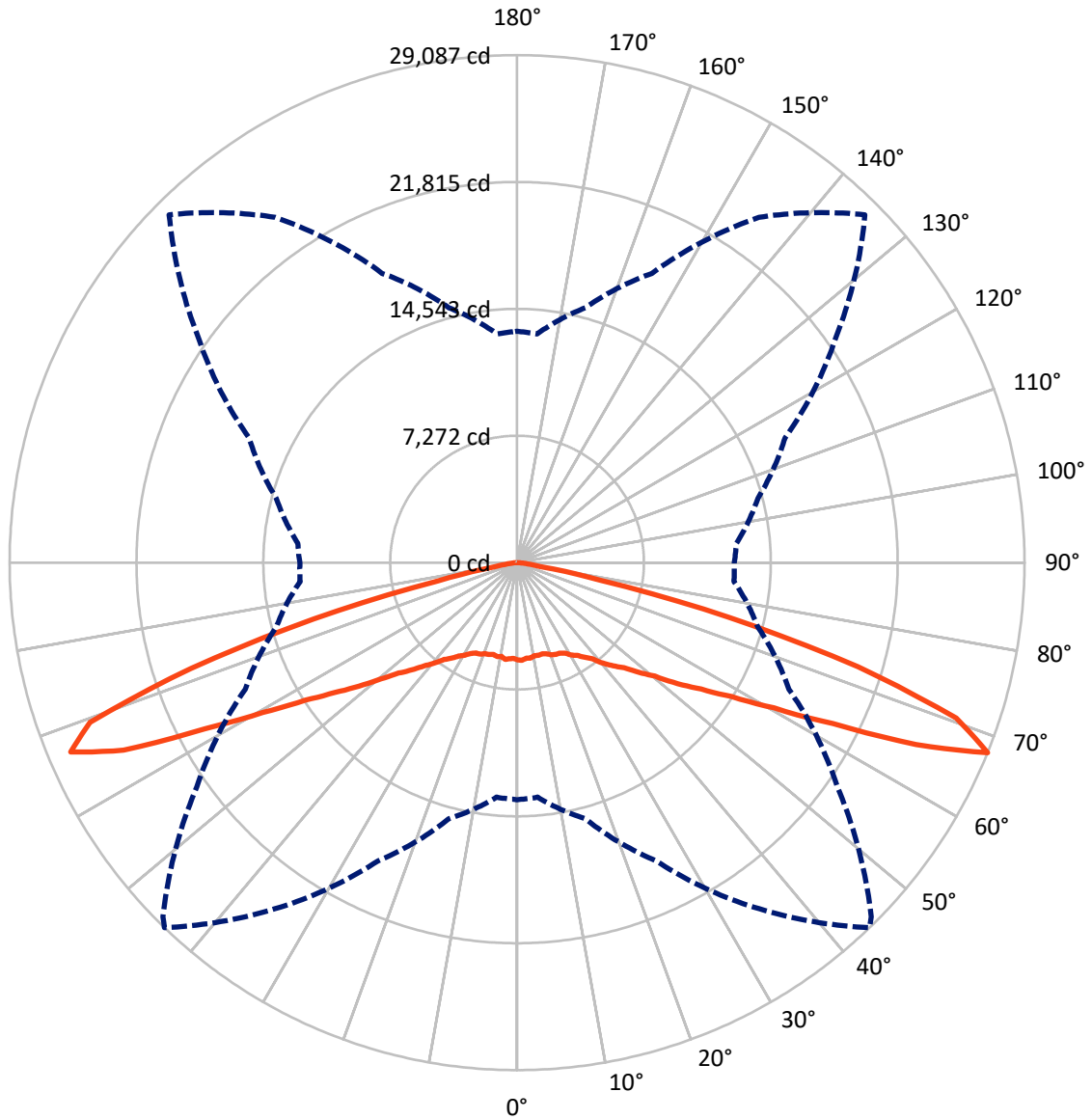
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25504.8	0.0	25504.8
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	25635.8	0.0	25635.8
	% Fixture	50.1	0.0	50.1
Total	Lumens	51140.7	0.0	51140.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.6	1.0
10°-20°	1544.4	3.0
20°-30°	2626.3	5.1
30°-40°	4164.0	8.1
40°-50°	6789.9	13.3
50°-60°	11596.2	22.7
60°-70°	17637.7	34.5
70°-80°	5945.0	11.6
80°-90°	308.7	0.6
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°	51140.7	100.0
0°-180°	51140.7	100.0

Coefficient of Utilization



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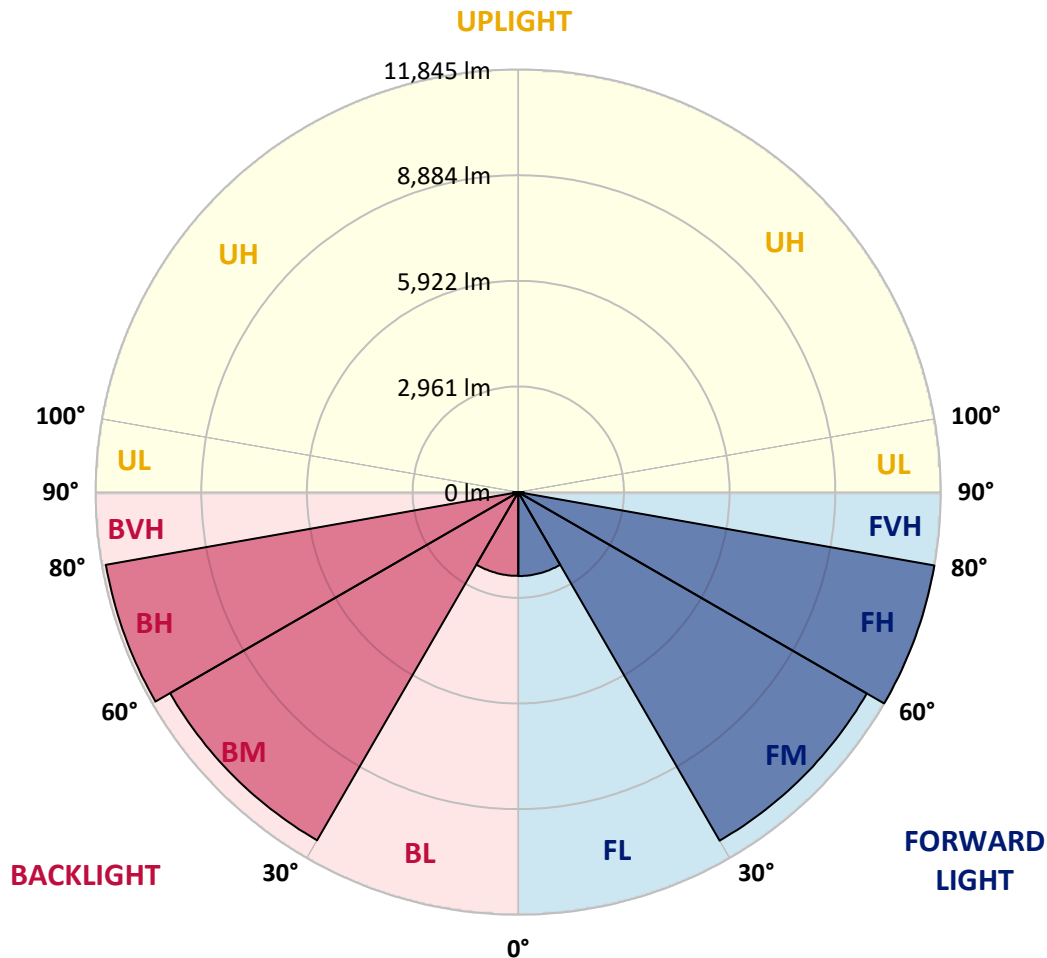
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2352.0	4.6			
FM (30°-60°)	11281.1	22.1			
FH (60°-80°)	11844.7	23.2			G4/12000
FVH (80°-90°)	157.9	0.3			G2/225
BL (0°-30°)	2347.2	4.6	B3/2500		
BM (30°-60°)	11269.0	22.0	B5		
BH (60°-80°)	11737.9	23.0	B5		G4/12000
BVH (80°-90°)	150.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2
2.5°	5457.8	5522.0	5568.7	5562.9	5580.4	5597.9	5574.6	5609.6	5586.2	5627.1	5650.4
5°	5562.9	5545.4	5551.2	5516.2	5597.9	5504.5	5504.5	5551.2	5609.6	5539.5	5580.4
7.5°	5498.7	5487.0	5457.8	5510.4	5527.9	5527.9	5574.6	5487.0	5586.2	5609.6	5615.4
10°	5428.6	5364.4	5452.0	5504.5	5516.2	5422.8	5463.7	5487.0	5457.8	5487.0	5504.5
12.5°	5370.3	5405.3	5405.3	5405.3	5387.8	5452.0	5492.8	5487.0	5428.6	5481.2	5387.8
15°	5364.4	5346.9	5399.4	5446.1	5417.0	5428.6	5446.1	5498.7	5387.8	5411.1	5411.1
17.5°	5358.6	5381.9	5399.4	5393.6	5492.8	5492.8	5475.3	5440.3	5527.9	5481.2	5417.0
20°	5381.9	5364.4	5411.1	5428.6	5498.7	5638.8	5586.2	5557.0	5510.4	5452.0	5452.0
22.5°	5411.1	5399.4	5463.7	5539.5	5673.8	5708.8	5703.0	5668.0	5586.2	5516.2	5504.5
25°	5516.2	5411.1	5481.2	5627.1	5673.8	5743.8	5790.5	5743.8	5632.9	5650.4	5545.4
27.5°	5673.8	5656.3	5749.7	5848.9	5808.0	5872.3	5831.4	5866.4	5872.3	5784.7	5679.6
30°	5860.6	5808.0	5866.4	6059.1	6076.6	6146.6	6076.6	5983.2	6012.4	5936.5	5883.9
32.5°	6129.1	6111.6	6222.5	6350.9	6374.3	6339.2	6304.2	6356.8	6234.2	6175.8	6082.4
35°	6304.2	6380.1	6514.4	6613.6	6689.5	6654.4	6672.0	6619.4	6648.6	6526.0	6485.2
37.5°	6823.7	6794.5	6823.7	6993.0	7010.5	6993.0	7010.5	7068.9	7028.0	6923.0	6817.9
40°	7314.1	7267.4	7337.4	7530.0	7518.4	7576.7	7460.0	7524.2	7524.2	7325.7	7284.9
42.5°	7681.8	7839.4	7921.1	8078.7	8137.1	8084.6	8061.2	8072.9	8201.3	7967.8	7880.3
45°	8440.6	8434.8	8680.0	8767.5	8604.1	8592.4	8545.7	8685.8	8773.4	8639.1	8604.1
47.5°	9263.7	9304.6	9444.6	9479.7	9578.9	9398.0	9398.0	9415.5	9724.8	9409.6	9246.2
50°	10005.0	10057.6	10337.7	10612.1	10425.3	10232.7	10308.6	10402.0	10571.2	10273.5	10133.4
52.5°	10904.0	11190.0	11376.8	11522.7	11657.0	11522.7	11347.6	11452.7	11785.4	11388.4	11213.3
55°	12199.8	12427.5	12602.6	12871.1	12982.0	12801.1	12783.5	12771.9	12958.7	12538.4	12299.1
57.5°	13647.5	13554.1	13834.2	14248.7	14651.5	14476.3	14423.8	14435.5	14482.2	13886.8	13705.8
60°	15445.3	15550.4	15883.1	16245.0	16671.1	16916.3	16571.9	16373.4	16414.3	15602.9	15322.7
62.5°	16472.7	16706.2	17459.2	18702.5	19560.6	20325.3	20377.8	19087.8	18223.9	16647.8	15457.0
65°	15976.5	15941.5	17359.9	19659.8	22911.2	25135.1	24802.4	21673.7	18655.8	16151.6	14552.2
67.5°	13589.1	13495.7	15211.8	18860.1	24230.4	29086.9	28707.5	22403.3	17196.5	14289.6	12480.0
70°	8755.9	8732.5	10594.6	14377.1	21632.8	26705.4	26845.4	20348.6	13997.7	10466.2	8674.1
72.5°	3181.3	3373.9	4453.8	7728.5	14692.3	20430.3	20517.9	15065.9	8049.5	4839.1	3566.6
75°	1173.3	1208.3	1406.8	2510.0	6695.3	12544.2	12871.1	7308.2	2860.2	1576.1	1284.2
77.5°	677.1	683.0	753.0	934.0	1984.7	4897.4	5095.9	2218.1	1109.1	840.6	776.4
80°	461.1	455.3	531.2	607.1	793.9	1389.3	1476.8	928.1	700.5	583.7	490.3
82.5°	268.5	286.0	391.1	432.0	484.5	612.9	624.6	577.9	525.4	432.0	321.0
85°	163.4	134.3	216.0	239.3	280.2	274.4	274.4	315.2	338.6	303.5	181.0
87.5°	40.9	40.9	52.5	58.4	75.9	58.4	64.2	122.6	163.4	151.8	93.4
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°	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2	5586.2
2.5°	5597.9	5580.4	5592.1	5656.3	5615.4	5492.8	5522.0	5586.2	5533.7	5504.5	5498.7
5°	5574.6	5609.6	5568.7	5580.4	5621.3	5522.0	5539.5	5621.3	5586.2	5597.9	5533.7
7.5°	5580.4	5597.9	5562.9	5510.4	5510.4	5592.1	5545.4	5557.0	5504.5	5592.1	5475.3
10°	5545.4	5498.7	5457.8	5487.0	5475.3	5452.0	5434.5	5469.5	5417.0	5492.8	5411.1
12.5°	5440.3	5452.0	5440.3	5428.6	5452.0	5510.4	5417.0	5428.6	5346.9	5358.6	5399.4
15°	5399.4	5434.5	5422.8	5487.0	5516.2	5428.6	5498.7	5428.6	5364.4	5329.4	5393.6
17.5°	5417.0	5469.5	5452.0	5498.7	5446.1	5510.4	5522.0	5492.8	5417.0	5387.8	5417.0
20°	5434.5	5417.0	5440.3	5522.0	5597.9	5533.7	5533.7	5516.2	5446.1	5405.3	5405.3
22.5°	5475.3	5446.1	5481.2	5545.4	5568.7	5668.0	5580.4	5539.5	5422.8	5317.7	5417.0
25°	5557.0	5574.6	5597.9	5574.6	5703.0	5691.3	5679.6	5650.4	5469.5	5475.3	5457.8
27.5°	5714.7	5615.4	5644.6	5784.7	5802.2	5848.9	5790.5	5843.1	5650.4	5656.3	5539.5
30°	5907.3	5802.2	5895.6	6018.2	6012.4	6099.9	6070.7	6082.4	5948.1	5872.3	5714.7
32.5°	6117.4	6105.7	6164.1	6240.0	6269.2	6315.9	6310.1	6310.1	6228.3	6029.9	6059.1
35°	6350.9	6432.6	6502.7	6584.4	6596.1	6654.4	6572.7	6584.4	6502.7	6356.8	6403.4
37.5°	6812.1	6806.2	6882.1	6981.3	6993.0	6946.3	7010.5	6981.3	6870.4	6771.2	6695.3
40°	7349.1	7232.3	7302.4	7535.9	7553.4	7471.7	7465.8	7460.0	7378.3	7162.3	7115.6
42.5°	7816.1	7967.8	7956.2	8032.0	7979.5	7938.6	8084.6	8002.9	7938.6	7711.0	7670.1
45°	8417.3	8464.0	8615.8	8860.9	8609.9	8609.9	8709.2	8644.9	8609.9	8440.6	8283.0
47.5°	9164.5	9205.3	9508.9	9526.4	9362.9	9252.0	9561.4	9573.1	9427.1	9298.7	9106.1
50°	10040.0	10057.6	10331.9	10612.1	10431.1	10221.0	10536.2	10658.8	10331.9	10156.8	9917.5
52.5°	11003.2	10950.7	11178.3	11703.7	11528.5	11464.3	11802.9	11832.1	11388.4	11114.1	11178.3
55°	12112.3	12042.2	12661.0	13017.0	12906.1	12789.4	12941.2	13011.2	12655.1	12205.7	12363.3
57.5°	13548.2	13583.2	13892.6	14242.9	14423.8	14453.0	14523.0	14453.0	14091.1	13635.8	13489.9
60°	14984.2	15089.3	15690.5	16350.1	16408.5	16922.1	16828.8	16478.5	15964.8	15316.9	15346.1
62.5°	15515.4	15427.8	16396.8	18007.9	19379.6	20319.4	19905.0	18661.6	17470.8	16291.7	16379.3
65°	14447.2	14663.1	15982.4	18504.0	21481.0	25199.3	22992.9	19554.7	17149.8	15626.3	15457.0
67.5°	12450.8	12614.3	14289.6	16951.3	22234.0	28199.7	24160.3	18293.9	15124.3	13151.3	13256.4
70°	8674.1	8755.9	10396.1	13886.8	20161.8	26612.0	21796.2	14050.2	10442.8	8323.9	8440.6
72.5°	3490.7	3689.1	4769.0	8364.8	14885.0	20220.2	14674.8	7372.4	4331.2	3222.2	2924.5
75°	1290.0	1295.9	1523.5	2877.8	7068.9	12707.7	6619.4	2369.9	1383.4	1132.4	1079.9
77.5°	747.2	741.3	793.9	1039.0	2048.9	4961.7	1879.6	928.1	753.0	677.1	647.9
80°	467.0	461.1	542.9	688.8	898.9	1360.1	793.9	577.9	507.8	437.8	437.8
82.5°	297.7	303.5	426.1	507.8	548.7	601.2	461.1	408.6	379.4	251.0	245.2
85°	192.6	175.1	297.7	338.6	303.5	268.5	256.8	216.0	198.5	122.6	134.3
87.5°	87.6	93.4	151.8	169.3	110.9	64.2	64.2	46.7	46.7	29.2	29.2
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)