

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: P479199

Luminaire Tested: **IFLD-L-SA7E-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479199
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

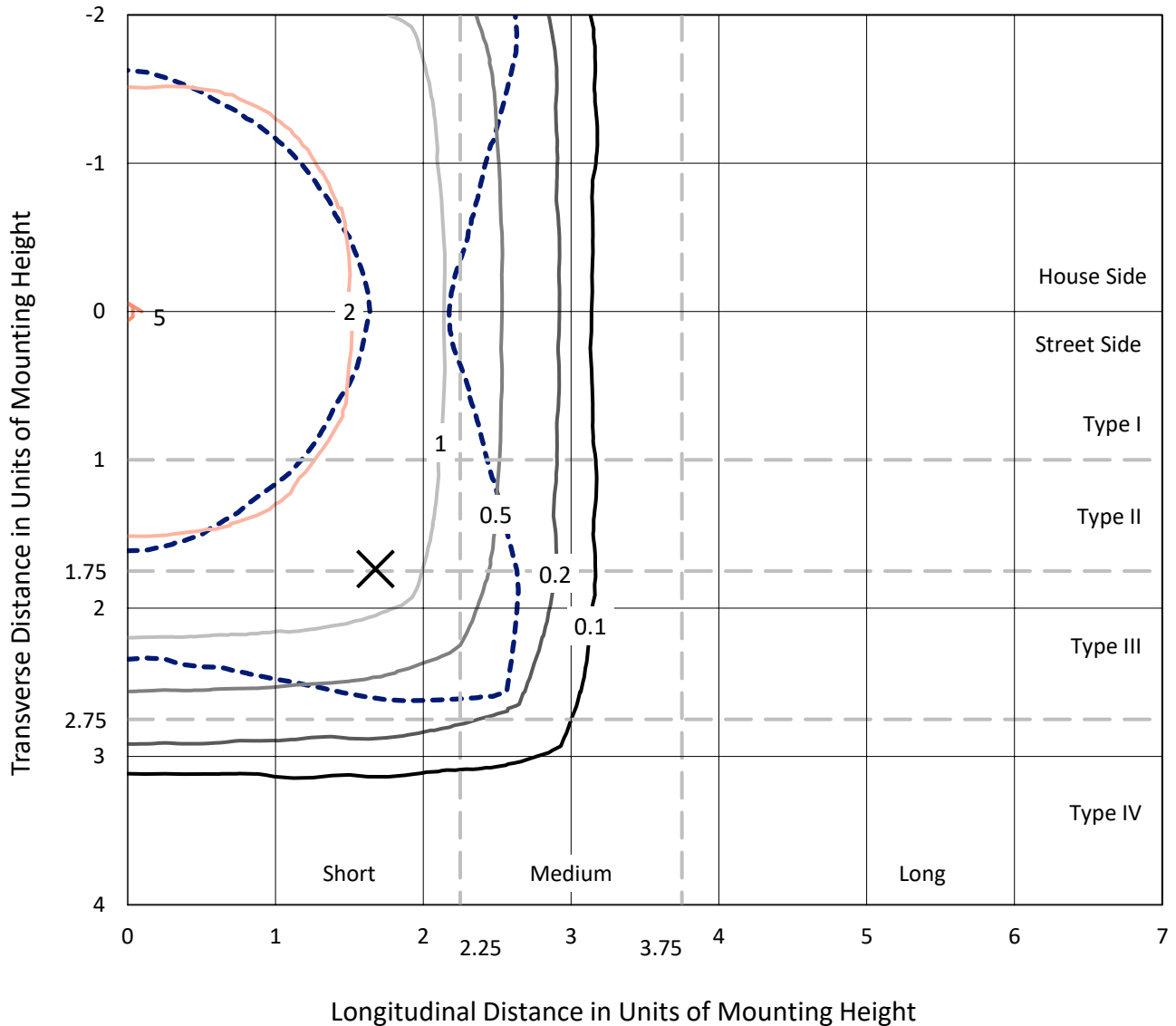
Lumens per Lamp: N/A
Luminaire Lumens: 41973.3 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 532.7
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

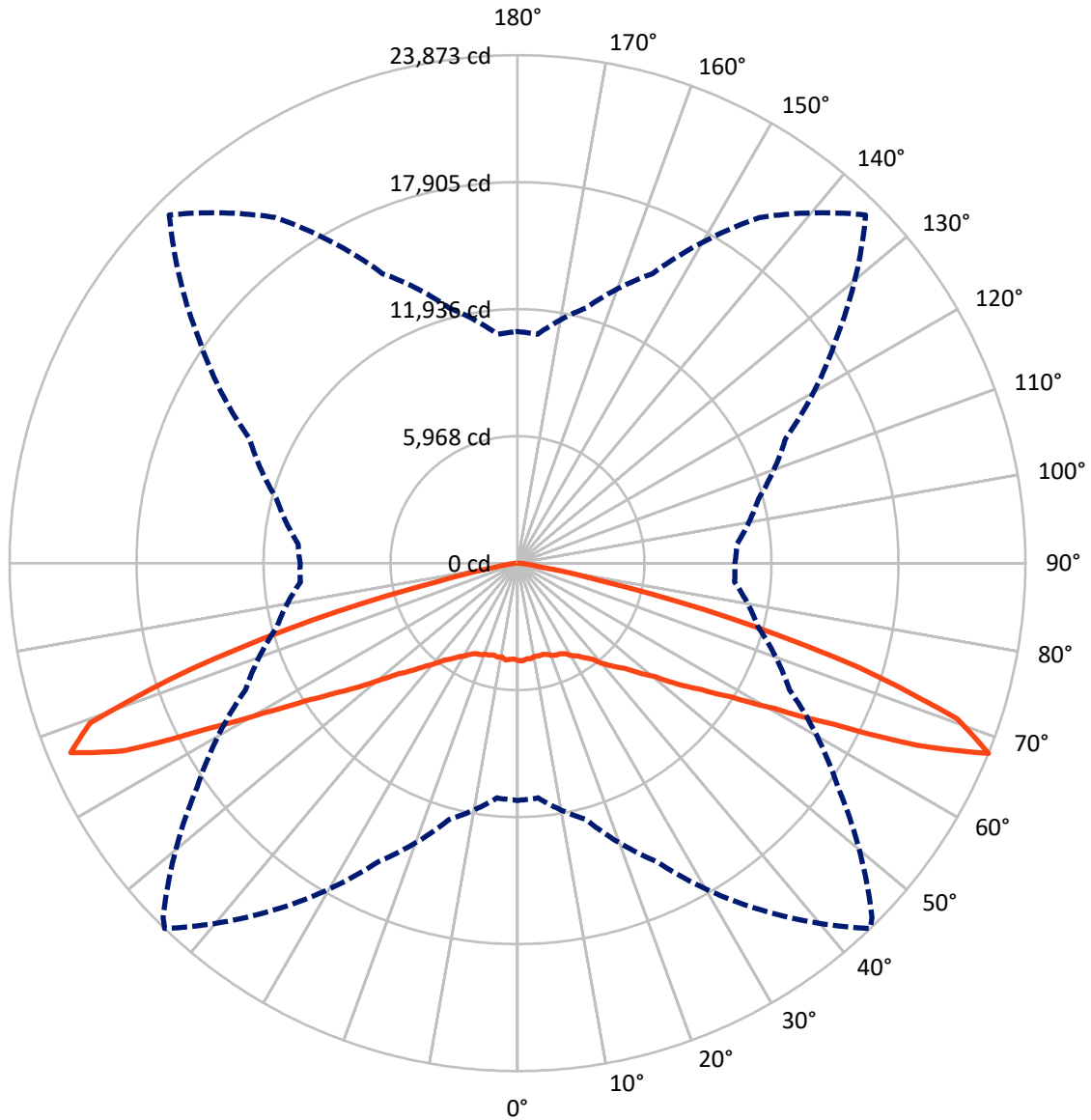
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 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	20932.9	0.0	20932.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	21040.4	0.0	21040.4
	% Fixture	50.1	0.0	50.1
Total	Lumens	41973.3	0.0	41973.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.9	1.0
10°-20°	1267.5	3.0
20°-30°	2155.5	5.1
30°-40°	3417.6	8.1
40°-50°	5572.7	13.3
50°-60°	9517.5	22.7
60°-70°	14476.0	34.5
70°-80°	4879.3	11.6
80°-90°	253.3	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°	41973.3	100.0
0°-180°	41973.3	100.0

Coefficient of Utilization



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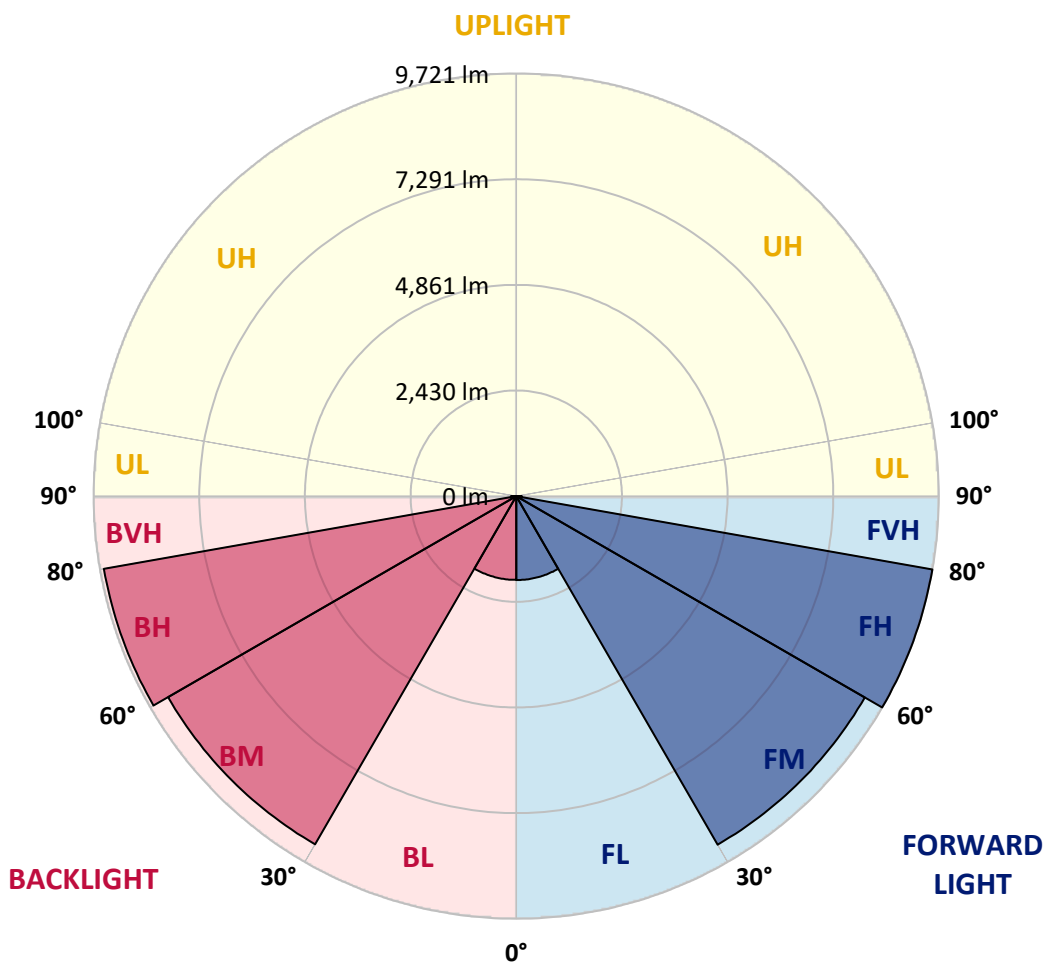
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1930.4	4.6			
FM (30°-60°)	9258.9	22.1			
FH (60°-80°)	9721.5	23.2			G4/12000
FVH (80°-90°)	129.6	0.3			G2/225
BL (0°-30°)	1926.5	4.6	B3/2500		
BM (30°-60°)	9248.9	22.0	B5		
BH (60°-80°)	9633.8	23.0	B5		G4/12000
BVH (80°-90°)	123.7	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°	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9
2.5°	4479.5	4532.2	4570.5	4565.7	4580.1	4594.4	4575.3	4604.0	4584.9	4618.4	4637.6
5°	4565.7	4551.3	4556.1	4527.4	4594.4	4517.8	4517.8	4556.1	4604.0	4546.5	4580.1
7.5°	4513.0	4503.4	4479.5	4522.6	4537.0	4537.0	4575.3	4503.4	4584.9	4604.0	4608.8
10°	4455.5	4402.8	4474.7	4517.8	4527.4	4450.7	4484.3	4503.4	4479.5	4503.4	4517.8
12.5°	4407.6	4436.3	4436.3	4436.3	4422.0	4474.7	4508.2	4503.4	4455.5	4498.6	4422.0
15°	4402.8	4388.4	4431.6	4469.9	4445.9	4455.5	4469.9	4513.0	4422.0	4441.1	4441.1
17.5°	4398.0	4417.2	4431.6	4426.8	4508.2	4508.2	4493.8	4465.1	4537.0	4498.6	4445.9
20°	4417.2	4402.8	4441.1	4455.5	4513.0	4628.0	4584.9	4560.9	4522.6	4474.7	4474.7
22.5°	4441.1	4431.6	4484.3	4546.5	4656.7	4685.5	4680.7	4651.9	4584.9	4527.4	4517.8
25°	4527.4	4441.1	4498.6	4618.4	4656.7	4714.2	4752.5	4714.2	4623.2	4637.6	4551.3
27.5°	4656.7	4642.4	4719.0	4800.5	4766.9	4819.6	4786.1	4814.8	4819.6	4747.8	4661.5
30°	4810.0	4766.9	4814.8	4972.9	4987.3	5044.8	4987.3	4910.6	4934.6	4872.3	4829.2
32.5°	5030.4	5016.0	5107.1	5212.5	5231.6	5202.9	5174.1	5217.3	5116.7	5068.7	4992.1
35°	5174.1	5236.4	5346.6	5428.1	5490.3	5461.6	5476.0	5432.9	5456.8	5356.2	5322.7
37.5°	5600.5	5576.6	5600.5	5739.5	5753.8	5739.5	5753.8	5801.7	5768.2	5682.0	5595.7
40°	6003.0	5964.6	6022.1	6180.2	6170.6	6218.6	6122.7	6175.4	6175.4	6012.5	5979.0
42.5°	6304.8	6434.1	6501.2	6630.6	6678.5	6635.4	6616.2	6625.8	6731.2	6539.5	6467.7
45°	6927.6	6922.8	7124.0	7195.9	7061.7	7052.2	7013.8	7128.8	7200.7	7090.5	7061.7
47.5°	7603.1	7636.7	7751.6	7780.4	7861.8	7713.3	7713.3	7727.7	7981.6	7722.9	7588.7
50°	8211.6	8254.7	8484.6	8709.8	8556.5	8398.4	8460.7	8537.3	8676.3	8431.9	8317.0
52.5°	8949.4	9184.1	9337.4	9457.2	9567.4	9457.2	9313.5	9399.7	9672.8	9347.0	9203.3
55°	10012.9	10199.8	10343.5	10563.9	10654.9	10506.4	10492.0	10482.4	10635.7	10290.8	10094.4
57.5°	11201.1	11124.4	11354.4	11694.5	12025.1	11881.4	11838.2	11847.8	11886.2	11397.5	11249.0
60°	12676.7	12762.9	13036.0	13333.0	13682.7	13884.0	13601.3	13438.4	13471.9	12806.0	12576.0
62.5°	13519.8	13711.5	14329.5	15350.0	16054.2	16681.8	16724.9	15666.2	14957.1	13663.6	12686.2
65°	13112.6	13083.9	14248.1	16135.7	18804.2	20629.5	20356.4	17788.5	15311.6	13256.3	11943.6
67.5°	11153.2	11076.5	12485.0	15479.3	19886.9	23872.9	23561.5	18387.4	14113.9	11728.1	10242.9
70°	7186.3	7167.1	8695.4	11799.9	17755.0	21918.2	22033.2	16701.0	11488.5	8590.0	7119.2
72.5°	2611.0	2769.1	3655.4	6343.1	12058.6	16768.1	16839.9	12365.2	6606.6	3971.6	2927.2
75°	963.0	991.7	1154.6	2060.1	5495.1	10295.6	10563.9	5998.2	2347.5	1293.5	1054.0
77.5°	555.7	560.5	618.0	766.5	1628.9	4019.5	4182.4	1820.5	910.3	689.9	637.2
80°	378.5	373.7	436.0	498.3	651.6	1140.2	1212.1	761.7	574.9	479.1	402.4
82.5°	220.4	234.8	321.0	354.5	397.6	503.0	512.6	474.3	431.2	354.5	263.5
85°	134.1	110.2	177.3	196.4	230.0	225.2	225.2	258.7	277.9	249.1	148.5
87.5°	33.5	33.5	43.1	47.9	62.3	47.9	52.7	100.6	134.1	124.6	76.7
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°	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9	4584.9
2.5°	4594.4	4580.1	4589.7	4642.4	4608.8	4508.2	4532.2	4584.9	4541.7	4517.8	4513.0
5°	4575.3	4604.0	4570.5	4580.1	4613.6	4532.2	4546.5	4613.6	4584.9	4594.4	4541.7
7.5°	4580.1	4594.4	4565.7	4522.6	4522.6	4589.7	4551.3	4560.9	4517.8	4589.7	4493.8
10°	4551.3	4513.0	4479.5	4503.4	4493.8	4474.7	4460.3	4489.0	4445.9	4508.2	4441.1
12.5°	4465.1	4474.7	4465.1	4455.5	4474.7	4522.6	4445.9	4455.5	4388.4	4398.0	4431.6
15°	4431.6	4460.3	4450.7	4503.4	4527.4	4455.5	4513.0	4455.5	4402.8	4374.1	4426.8
17.5°	4445.9	4489.0	4474.7	4513.0	4469.9	4522.6	4532.2	4508.2	4445.9	4422.0	4445.9
20°	4460.3	4445.9	4465.1	4532.2	4594.4	4541.7	4541.7	4527.4	4469.9	4436.3	4436.3
22.5°	4493.8	4469.9	4498.6	4551.3	4570.5	4651.9	4580.1	4546.5	4450.7	4364.5	4445.9
25°	4560.9	4575.3	4594.4	4575.3	4680.7	4671.1	4661.5	4637.6	4489.0	4493.8	4479.5
27.5°	4690.3	4608.8	4632.8	4747.8	4762.1	4800.5	4752.5	4795.7	4637.6	4642.4	4546.5
30°	4848.4	4762.1	4838.8	4939.4	4934.6	5006.5	4982.5	4992.1	4881.9	4819.6	4690.3
32.5°	5020.8	5011.3	5059.2	5121.4	5145.4	5183.7	5178.9	5178.9	5111.9	4949.0	4972.9
35°	5212.5	5279.5	5337.0	5404.1	5413.7	5461.6	5394.5	5404.1	5337.0	5217.3	5255.6
37.5°	5590.9	5586.2	5648.4	5729.9	5739.5	5701.1	5753.8	5729.9	5638.9	5557.4	5495.1
40°	6031.7	5935.9	5993.4	6185.0	6199.4	6132.3	6127.5	6122.7	6055.7	5878.4	5840.1
42.5°	6415.0	6539.5	6530.0	6592.2	6549.1	6515.6	6635.4	6568.3	6515.6	6328.7	6295.2
45°	6908.4	6946.8	7071.3	7272.5	7066.5	7066.5	7148.0	7095.3	7066.5	6927.6	6798.2
47.5°	7521.7	7555.2	7804.3	7818.7	7684.6	7593.5	7847.5	7857.0	7737.3	7631.9	7473.8
50°	8240.3	8254.7	8479.8	8709.8	8561.3	8388.8	8647.5	8748.1	8479.8	8336.1	8139.7
52.5°	9030.8	8987.7	9174.5	9605.7	9462.0	9409.3	9687.1	9711.1	9347.0	9121.8	9174.5
55°	9941.1	9883.6	10391.4	10683.6	10592.6	10496.8	10621.4	10678.9	10386.6	10017.7	10147.1
57.5°	11119.6	11148.4	11402.3	11689.7	11838.2	11862.2	11919.7	11862.2	11565.2	11191.5	11071.7
60°	12298.2	12384.4	12877.9	13419.2	13467.1	13888.7	13812.1	13524.6	13103.0	12571.3	12595.2
62.5°	12734.1	12662.3	13457.6	14779.8	15905.7	16677.0	16336.9	15316.4	14339.1	13371.3	13443.2
65°	11857.4	12034.7	13117.4	15187.1	17630.4	20682.2	18871.3	16049.4	14075.6	12825.2	12686.2
67.5°	10218.9	10353.1	11728.1	13912.7	18248.4	23144.7	19829.4	15014.6	12413.2	10793.8	10880.1
70°	7119.2	7186.3	8532.5	11397.5	16547.7	21841.6	17889.1	11531.6	8570.9	6831.8	6927.6
72.5°	2864.9	3027.8	3914.1	6865.3	12216.7	16595.6	12044.3	6050.9	3554.8	2644.6	2400.2
75°	1058.8	1063.6	1250.4	2361.9	5801.7	10429.7	5432.9	1945.1	1135.4	929.4	886.3
77.5°	613.2	608.4	651.6	852.8	1681.6	4072.2	1542.7	761.7	618.0	555.7	531.8
80°	383.3	378.5	445.6	565.3	737.8	1116.3	651.6	474.3	416.8	359.3	359.3
82.5°	244.3	249.1	349.7	416.8	450.3	493.5	378.5	335.4	311.4	206.0	201.2
85°	158.1	143.7	244.3	277.9	249.1	220.4	210.8	177.3	162.9	100.6	110.2
87.5°	71.9	76.7	124.6	138.9	91.0	52.7	52.7	38.3	38.3	24.0	24.0
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)