

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: P478812

Luminaire Tested: **IFLD-L-SA8C-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478812
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

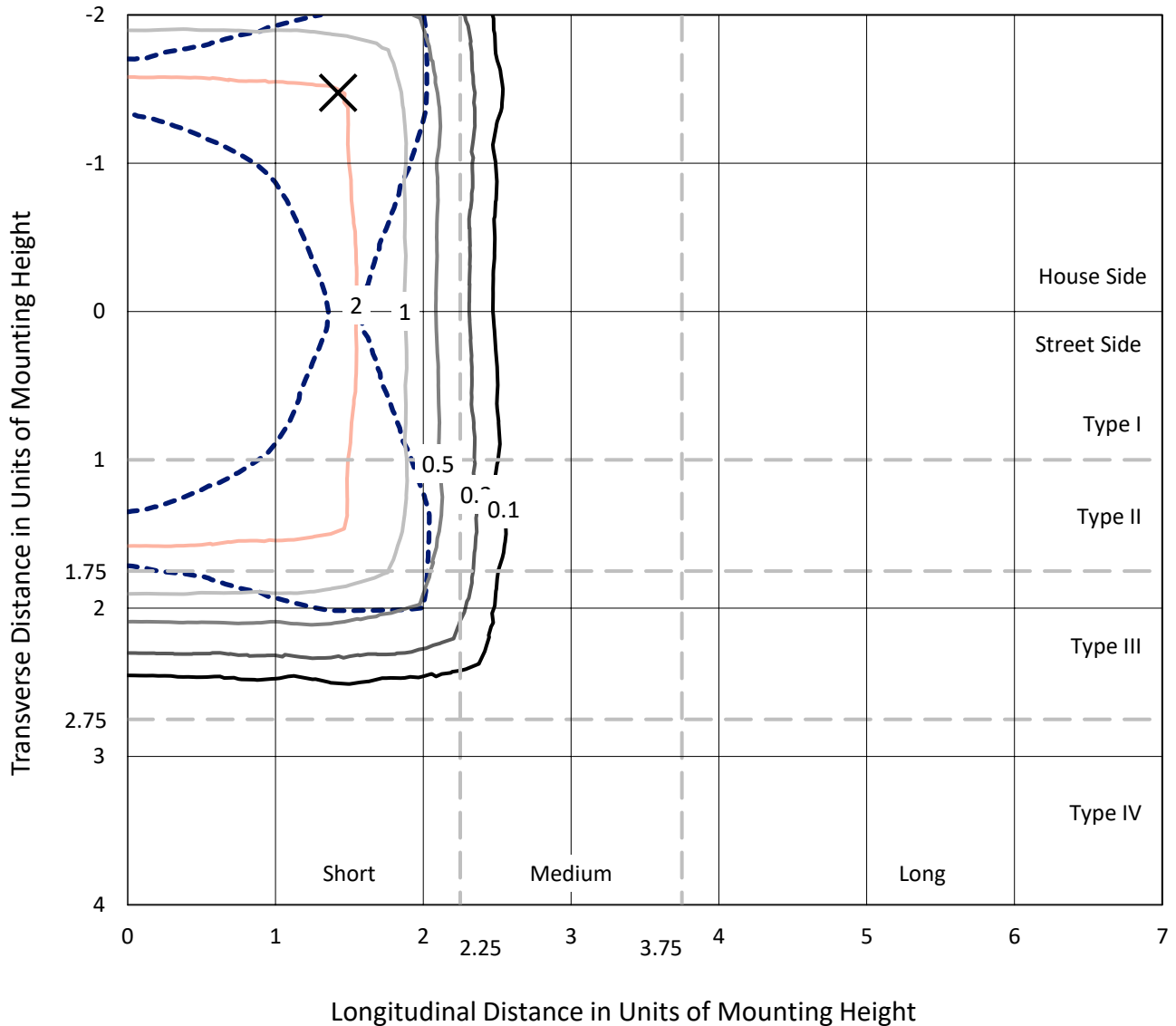
Lumens per Lamp: N/A
Luminaire Lumens: 37221.1 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

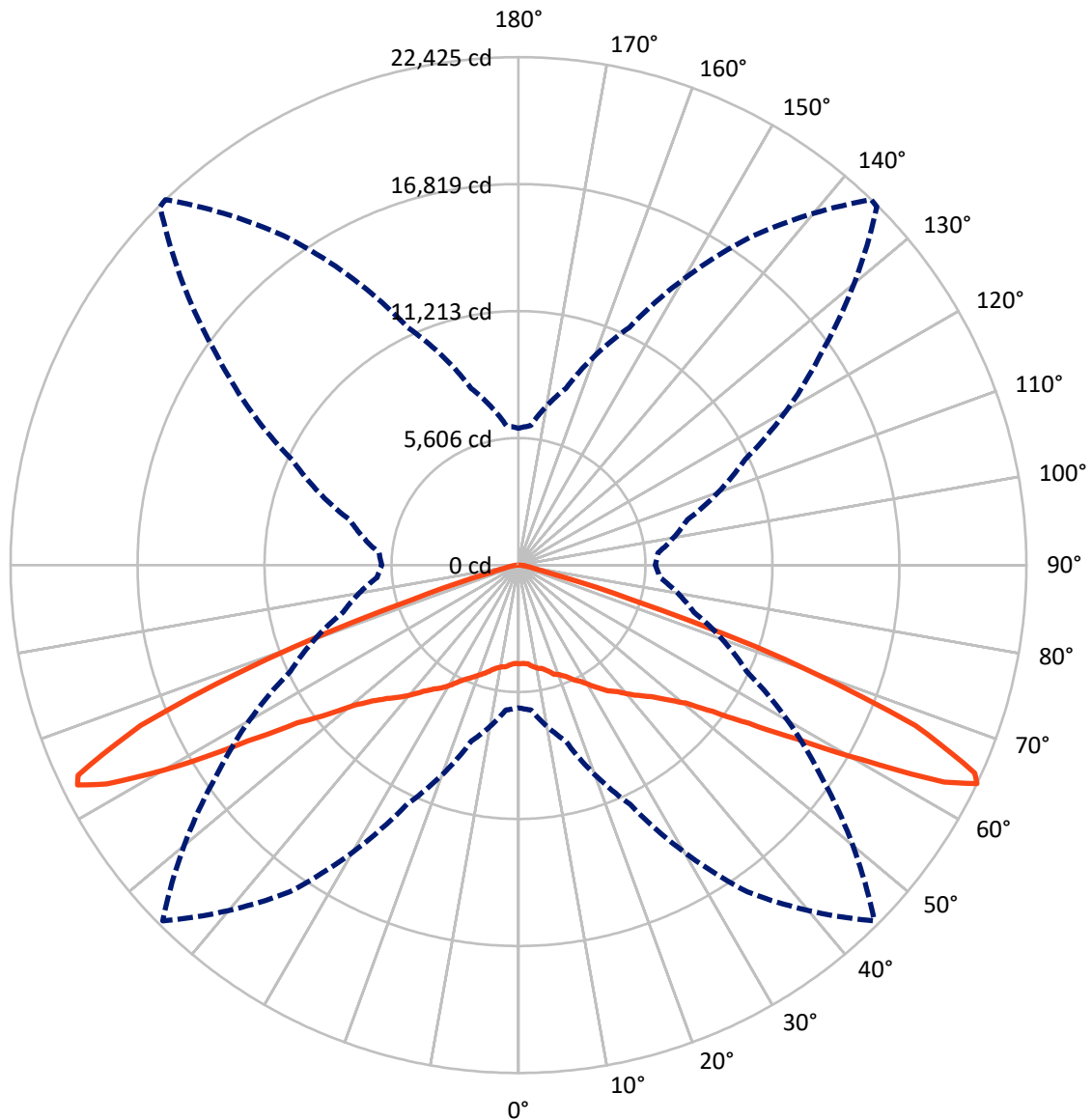
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18628.3	0.0	18628.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18592.8	0.0	18592.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	37221.1	0.0	37221.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.2	1.2
10°-20°	1380.1	3.7
20°-30°	2593.7	7.0
30°-40°	4277.4	11.5
40°-50°	6689.6	18.0
50°-60°	10808.8	29.0
60°-70°	9732.6	26.1
70°-80°	1152.9	3.1
80°-90°	157.8	0.4
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°	37221.1	100.0
0°-180°	37221.1	100.0

Coefficient of Utilization



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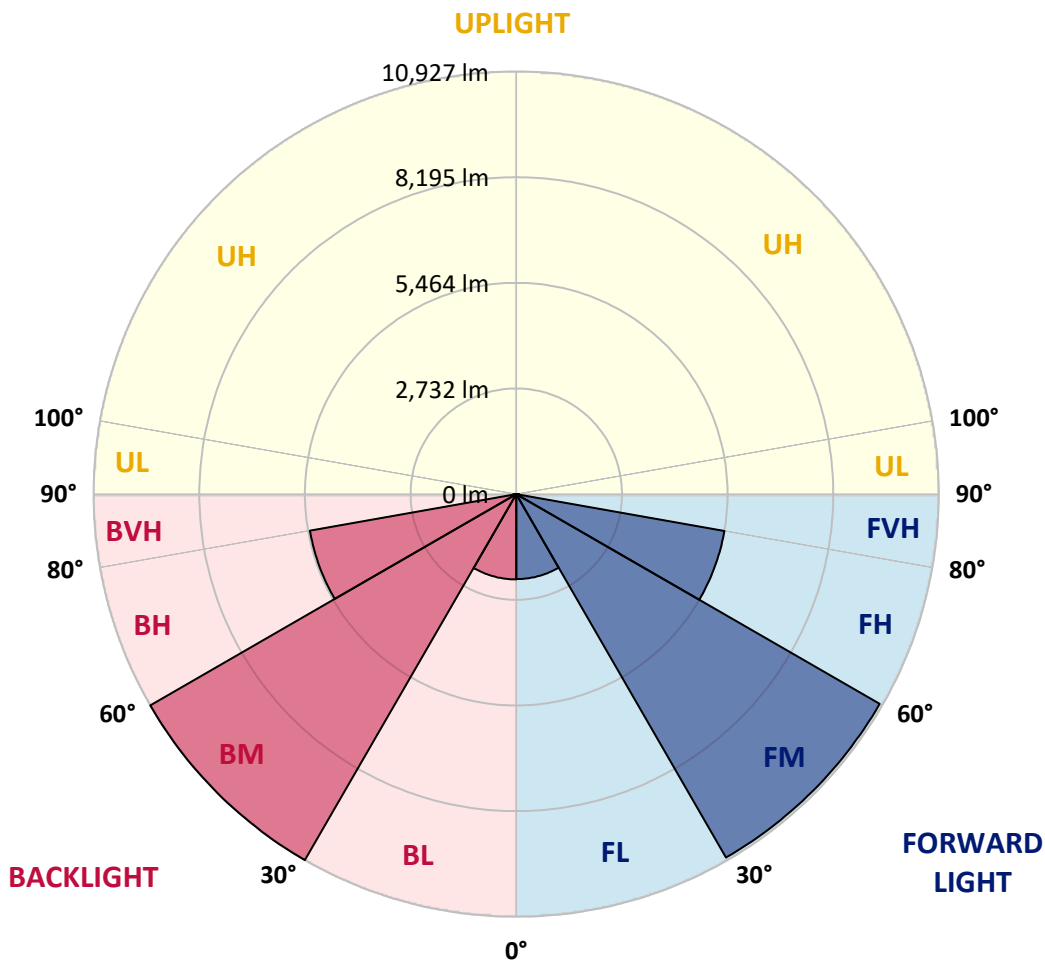
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2196.7	5.9			
FM (30°-60°)	10848.8	29.1			
FH (60°-80°)	5466.3	14.7			G3/7500
FVH (80°-90°)	81.0	0.2			G1/100
BL (0°-30°)	2205.2	5.9	B3/2500		
BM (30°-60°)	10927.1	29.4	B5		
BH (60°-80°)	5419.2	14.6	B5		G3/7500
BVH (80°-90°)	76.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4357.8	4357.8	4357.8	4357.8	4357.8	4357.8	4357.8	4357.8	4357.8	4357.8	4357.8
2.5°	4306.6	4315.1	4392.0	4362.1	4387.7	4340.7	4374.9	4447.5	4362.1	4426.1	4447.5
5°	4353.6	4366.4	4366.4	4396.2	4413.3	4404.8	4426.1	4396.2	4477.3	4443.2	4494.4
7.5°	4524.3	4502.9	4468.8	4494.4	4498.7	4520.0	4541.4	4579.8	4567.0	4537.1	4588.3
10°	4554.2	4537.1	4588.3	4592.6	4571.2	4554.2	4575.5	4575.5	4613.9	4622.4	4622.4
12.5°	4605.4	4622.4	4618.2	4652.3	4656.6	4643.8	4677.9	4742.0	4724.9	4737.7	4707.8
15°	4801.7	4780.4	4776.1	4810.2	4865.7	4784.6	4844.4	4840.1	4823.1	4848.7	4780.4
17.5°	4972.4	4904.1	4934.0	4989.5	4968.2	4985.2	5062.1	4993.8	5010.9	4981.0	4959.6
20°	5121.8	5066.3	5070.6	5091.9	5091.9	5143.2	5173.0	5147.4	5130.4	5126.1	5134.6
22.5°	5288.3	5224.3	5228.5	5318.2	5348.0	5331.0	5309.6	5352.3	5360.8	5326.7	5365.1
25°	5412.1	5480.4	5501.7	5544.4	5480.4	5527.3	5510.2	5591.3	5642.5	5574.3	5621.2
27.5°	5736.4	5706.6	5762.1	5757.8	5809.0	5762.1	5791.9	5817.5	5838.9	5843.2	5821.8
30°	6026.7	6039.5	5984.0	6133.4	6013.9	6090.7	6141.9	6154.7	6180.3	6180.3	6116.3
32.5°	6334.0	6308.4	6398.0	6363.9	6342.5	6402.3	6346.8	6521.8	6419.4	6479.1	6406.6
35°	6679.7	6679.7	6713.9	6807.8	6679.7	6641.3	6743.7	6816.3	6816.3	6709.6	6735.2
37.5°	7068.1	7034.0	7076.7	7196.2	7098.0	6970.0	7157.8	7187.6	7166.3	7136.4	7085.2
40°	7341.3	7332.7	7418.1	7576.0	7435.2	7409.6	7443.7	7524.8	7550.4	7580.3	7512.0
42.5°	7802.2	7840.7	8088.2	8049.8	7934.6	7844.9	7836.4	8139.4	8066.9	7990.0	7951.6
45°	8485.2	8451.0	8579.1	8583.3	8433.9	8237.6	8280.3	8557.7	8681.5	8510.8	8574.8
47.5°	9027.2	9044.3	9133.9	9317.5	8971.7	8766.9	8924.8	9372.9	9334.5	9270.5	9330.3
50°	9752.8	9829.6	10111.3	10047.3	9740.0	9488.2	9833.9	10256.5	10303.4	10068.7	10026.0
52.5°	10755.8	10875.3	11029.0	11080.2	10785.7	10696.1	10717.4	11242.4	11127.2	10901.0	10755.8
55°	11635.1	11690.6	11972.3	12394.8	12373.5	11942.4	12189.9	12386.3	11916.8	11451.6	11490.0
57.5°	12010.7	12036.3	12821.6	13666.7	14170.4	14268.6	13986.9	13325.3	12207.0	11310.7	11255.2
60°	11076.0	11319.2	12266.8	14174.7	16475.2	17610.5	15736.8	13432.0	11528.4	10440.0	10358.9
62.5°	8852.2	8865.0	10273.5	13167.4	17909.3	20884.2	16406.9	12429.0	9718.7	8485.2	8160.8
64°	6304.1	6423.6	8041.3	11656.4	17610.5	22215.9	16325.8	11118.6	8011.4	6261.4	6035.2
65°	4524.3	4690.7	6252.9	10119.9	16910.6	22058.0	16082.5	9991.8	6479.1	4780.4	4549.9
67.5°	1664.6	1732.9	2454.2	5062.1	12143.0	18797.1	12744.8	5493.2	2846.9	2027.4	1822.5
70°	772.5	776.8	909.1	1673.1	5309.6	12569.8	6082.2	2061.5	1071.3	849.4	789.6
72.5°	567.7	580.5	636.0	772.5	1562.2	5322.4	1997.5	845.1	627.4	554.9	542.1
75°	461.0	469.5	486.6	559.1	721.3	1425.6	811.0	584.7	499.4	448.2	431.1
77.5°	354.3	354.3	392.7	426.8	478.0	665.8	537.8	465.2	405.5	354.3	341.5
80°	256.1	260.4	307.3	332.9	324.4	439.6	388.4	384.1	332.9	277.4	256.1
82.5°	149.4	162.2	221.9	239.0	230.5	260.4	281.7	298.8	260.4	192.1	175.0
85°	85.4	89.6	128.0	132.3	132.3	123.8	162.2	179.3	175.0	119.5	106.7
87.5°	25.6	25.6	34.1	34.1	38.4	42.7	64.0	76.8	85.4	59.8	55.5
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°	136°	145°	155°	165°	175°	180°
0°	4357.8	4357.8	4357.8	4357.8	4357.8	4357.8	4357.8	4357.8	4357.8	4357.8	4357.8
2.5°	4426.1	4362.1	4366.4	4383.4	4327.9	4349.3	4413.3	4366.4	4353.6	4327.9	4315.1
5°	4404.8	4473.1	4447.5	4456.0	4443.2	4383.4	4374.9	4413.3	4434.6	4396.2	4473.1
7.5°	4554.2	4524.3	4490.1	4502.9	4473.1	4524.3	4558.4	4481.6	4520.0	4498.7	4456.0
10°	4639.5	4584.0	4609.6	4601.1	4579.8	4631.0	4596.8	4588.3	4554.2	4507.2	4575.5
12.5°	4669.4	4733.4	4776.1	4703.5	4716.3	4690.7	4669.4	4669.4	4631.0	4618.2	4631.0
15°	4801.7	4857.2	4840.1	4895.6	4823.1	4848.7	4874.3	4810.2	4844.4	4750.5	4823.1
17.5°	5045.0	4998.0	5057.8	4985.2	5010.9	5062.1	4981.0	4981.0	5006.6	4955.4	4891.3
20°	5198.7	5177.3	5156.0	5160.2	5117.6	5164.5	5138.9	5126.1	5087.7	5104.8	5138.9
22.5°	5343.8	5313.9	5322.4	5335.2	5365.1	5343.8	5331.0	5343.8	5249.9	5335.2	5215.7
25°	5523.0	5604.1	5578.5	5634.0	5548.6	5604.1	5599.9	5518.8	5570.0	5535.8	5510.2
27.5°	5821.8	5779.1	5817.5	5749.3	5809.0	5813.3	5762.1	5898.6	5838.9	5830.3	5813.3
30°	6205.9	6176.1	6150.5	6112.0	6159.0	6120.6	6163.3	6176.1	6120.6	6077.9	5996.8
32.5°	6423.6	6504.7	6534.6	6440.7	6445.0	6466.3	6427.9	6389.5	6423.6	6436.4	6423.6
35°	6730.9	6807.8	6824.8	6752.3	6713.9	6820.6	6743.7	6871.8	6760.8	6765.1	6649.8
37.5°	7089.5	7110.8	7255.9	7174.8	7140.7	7089.5	7230.3	7213.2	7238.8	7034.0	7136.4
40°	7494.9	7571.8	7652.9	7448.0	7443.7	7490.7	7482.1	7580.3	7533.4	7503.5	7430.9
42.5°	7938.8	8101.0	8113.8	7977.2	7891.9	7883.3	7926.0	8143.7	8148.0	7951.6	7866.3
45°	8527.8	8707.1	8660.2	8395.5	8301.6	8288.8	8498.0	8591.9	8673.0	8596.1	8523.6
47.5°	9262.0	9381.5	9347.3	9104.0	8801.0	8886.4	9091.2	9385.7	9300.4	9197.9	9112.6
50°	10047.3	10188.2	10115.6	9872.3	9582.1	9582.1	9833.9	10209.5	10183.9	9983.3	9906.5
52.5°	10918.0	11122.9	11289.4	10943.6	10700.3	10738.8	11135.7	11272.3	11208.3	11067.4	11003.4
55°	11566.8	11959.5	12300.9	12318.0	12330.8	12326.5	12429.0	12565.5	12108.9	11882.6	11652.2
57.5°	11408.9	12151.5	13321.0	14114.9	14349.7	14473.4	14439.3	13807.6	12727.7	11985.1	12061.9
60°	10282.1	11494.2	13380.8	15928.9	17636.2	17465.4	16842.3	14345.4	12386.3	11131.4	10973.5
62.5°	8203.5	9663.2	12377.7	16441.1	21144.6	21093.4	17832.5	13103.3	10320.5	8732.7	8634.5
64°	6180.3	7716.9	11041.8	16308.8	22373.8	22425.1	17580.7	11575.3	8075.4	6180.3	6031.0
65°	4729.2	6154.7	9731.5	16035.6	22109.2	22139.1	16880.7	9996.1	6137.7	4387.7	4225.5
67.5°	1882.3	2620.7	5279.7	12160.1	18984.9	18903.8	12044.8	4835.9	2347.5	1528.0	1498.1
70°	802.4	998.8	1852.4	5762.1	12710.7	12475.9	5185.8	1570.7	870.7	729.9	725.6
72.5°	550.6	610.4	793.9	1779.8	5284.0	5160.2	1476.8	729.9	593.3	546.3	546.3
75°	443.9	486.6	576.2	746.9	1400.0	1348.7	695.7	537.8	473.8	439.6	435.4
77.5°	345.7	388.4	452.4	516.5	640.2	636.0	465.2	405.5	367.1	341.5	332.9
80°	273.2	315.8	358.5	367.1	418.3	409.7	315.8	320.1	298.8	247.6	243.3
82.5°	187.8	256.1	286.0	260.4	247.6	247.6	226.2	226.2	209.1	153.7	140.9
85°	115.2	170.7	179.3	153.7	115.2	115.2	123.8	119.5	111.0	81.1	76.8
87.5°	59.8	81.1	72.6	59.8	38.4	38.4	34.1	25.6	25.6	21.3	21.3
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)