

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: P478876

Luminaire Tested: **IFLD-S-SA6D-730-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478876
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-730-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

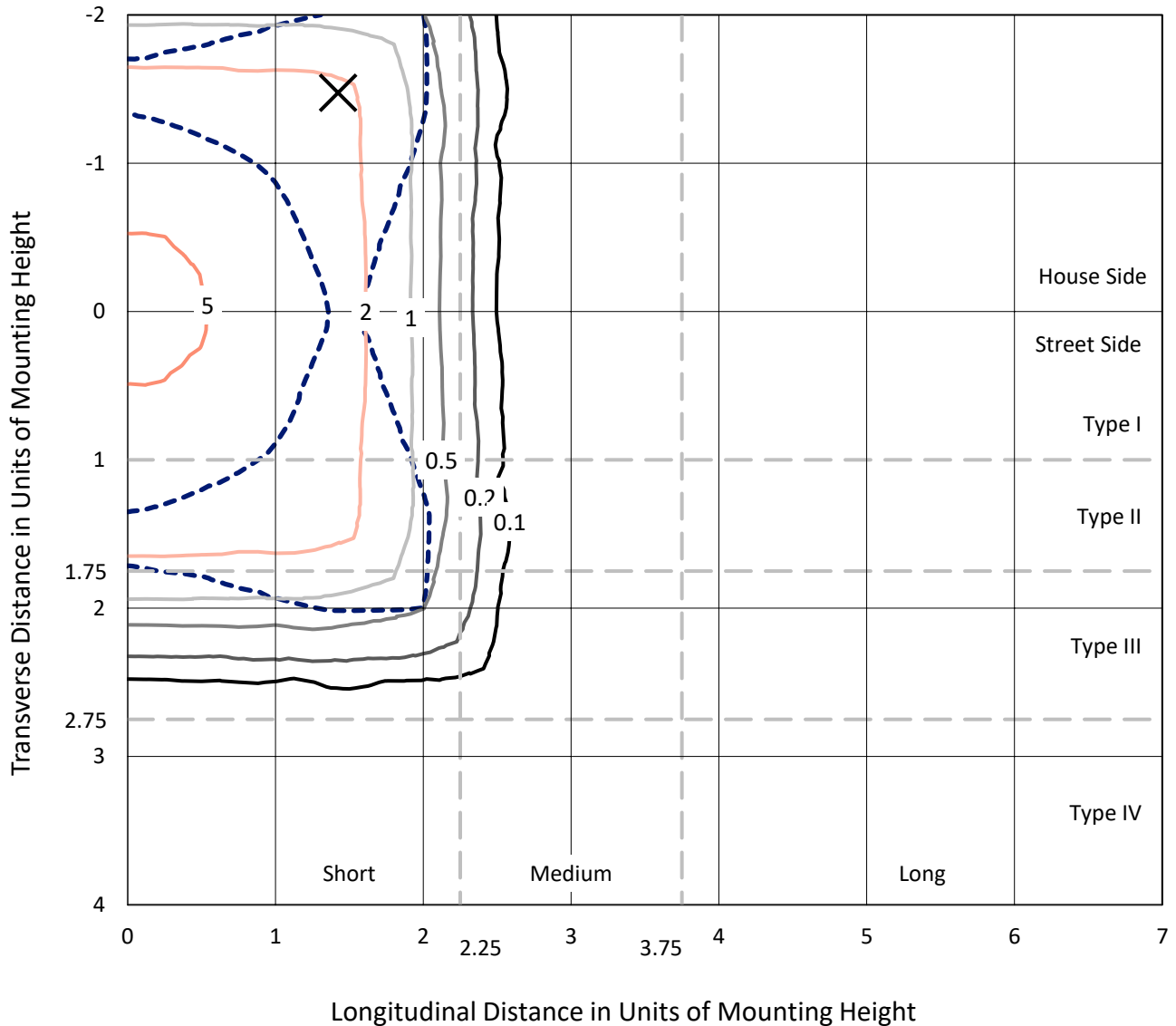
Lumens per Lamp: N/A
Luminaire Lumens: 41524.9 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 368.2
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

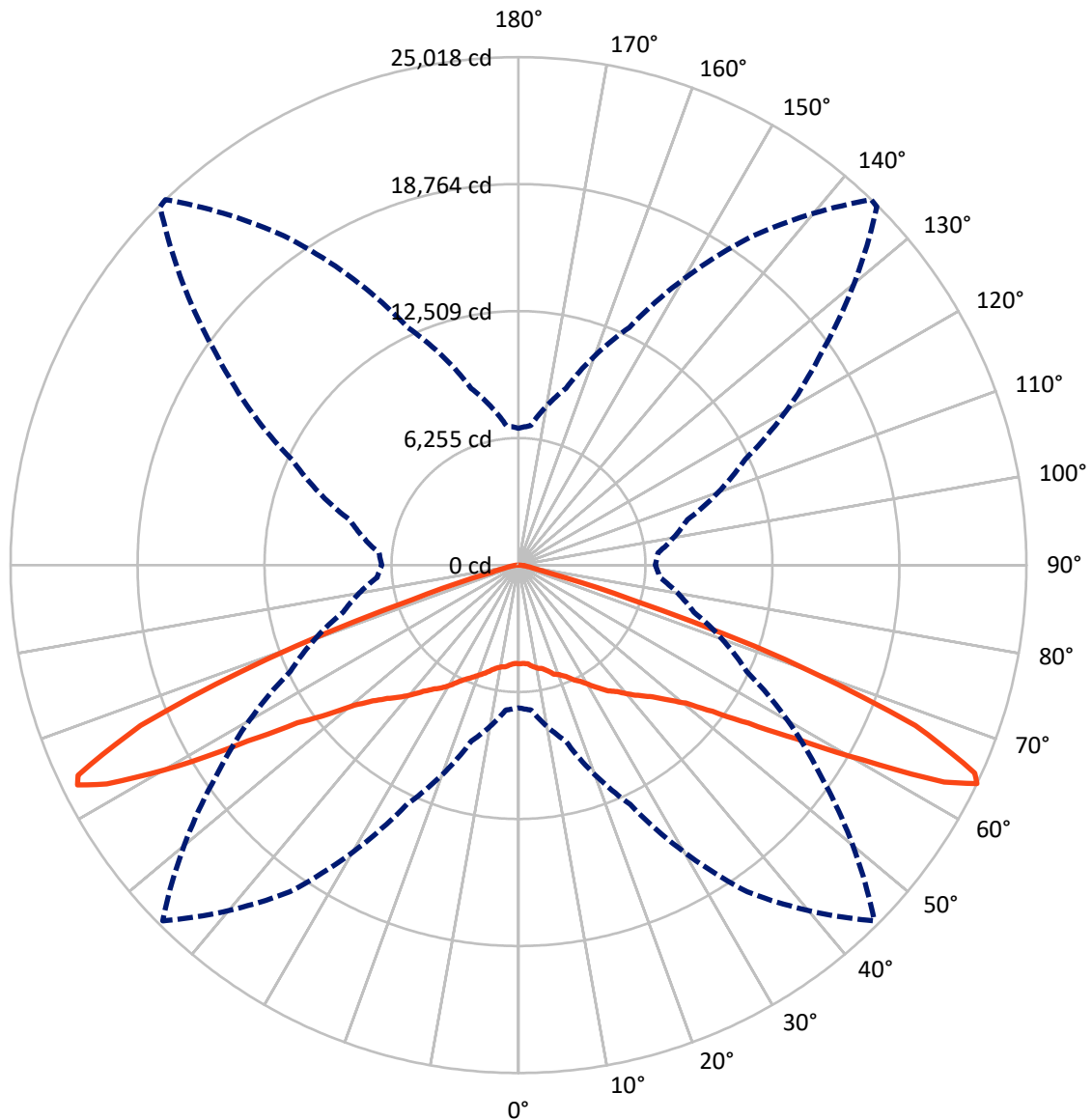
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 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	20782.3	0.0	20782.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20742.7	0.0	20742.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	41524.9	0.0	41524.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.7	1.2
10°-20°	1539.6	3.7
20°-30°	2893.6	7.0
30°-40°	4772.0	11.5
40°-50°	7463.1	18.0
50°-60°	12058.6	29.0
60°-70°	10858.0	26.1
70°-80°	1286.2	3.1
80°-90°	176.1	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°	41524.9	100.0
0°-180°	41524.9	100.0

Coefficient of Utilization



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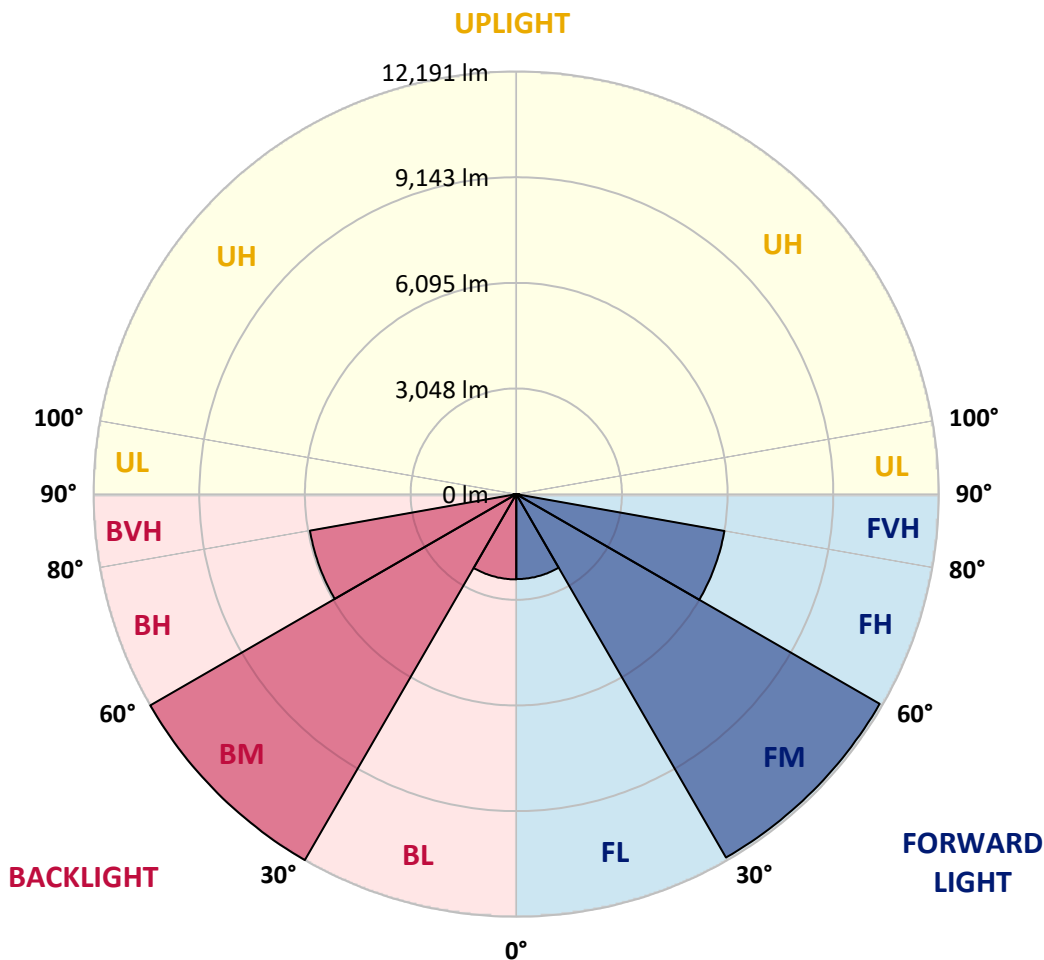
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2450.7	5.9			
FM (30°-60°)	12103.2	29.1			
FH (60°-80°)	6098.4	14.7			G3/7500
FVH (80°-90°)	90.3	0.2			G1/100
BL (0°-30°)	2460.2	5.9	B3/2500		
BM (30°-60°)	12190.6	29.4	B5		
BH (60°-80°)	6045.8	14.6	B5		G3/7500
BVH (80°-90°)	85.7	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°	4861.7	4861.7	4861.7	4861.7	4861.7	4861.7	4861.7	4861.7	4861.7	4861.7	4861.7
2.5°	4804.6	4814.1	4899.8	4866.5	4895.0	4842.7	4880.8	4961.7	4866.5	4937.9	4961.7
5°	4857.0	4871.2	4871.2	4904.6	4923.6	4914.1	4937.9	4904.6	4995.0	4957.0	5014.1
7.5°	5047.4	5023.6	4985.5	5014.1	5018.9	5042.7	5066.5	5109.3	5095.0	5061.7	5118.9
10°	5080.8	5061.7	5118.9	5123.6	5099.8	5080.8	5104.6	5104.6	5147.4	5156.9	5156.9
12.5°	5137.9	5156.9	5152.2	5190.3	5195.0	5180.8	5218.8	5290.3	5271.2	5285.5	5252.2
15°	5356.9	5333.1	5328.4	5366.5	5428.4	5337.9	5404.6	5399.8	5380.7	5409.3	5333.1
17.5°	5547.4	5471.2	5504.6	5566.5	5542.6	5561.7	5647.4	5571.2	5590.3	5556.9	5533.1
20°	5714.1	5652.2	5656.9	5680.7	5680.7	5737.9	5771.2	5742.6	5723.6	5718.8	5728.4
22.5°	5899.8	5828.3	5833.1	5933.1	5966.4	5947.4	5923.6	5971.2	5980.7	5942.6	5985.5
25°	6037.9	6114.1	6137.9	6185.5	6114.1	6166.4	6147.4	6237.9	6295.0	6218.8	6271.2
27.5°	6399.8	6366.4	6428.3	6423.6	6480.7	6428.3	6461.7	6490.2	6514.0	6518.8	6495.0
30°	6723.6	6737.8	6675.9	6842.6	6709.3	6795.0	6852.1	6866.4	6895.0	6895.0	6823.5
32.5°	7066.4	7037.8	7137.8	7099.7	7075.9	7142.6	7080.7	7275.9	7161.6	7228.3	7147.3
35°	7452.1	7452.1	7490.2	7594.9	7452.1	7409.2	7523.5	7604.5	7604.5	7485.4	7514.0
37.5°	7885.4	7847.3	7894.9	8028.3	7918.7	7775.9	7985.4	8018.7	7994.9	7961.6	7904.5
40°	8190.2	8180.6	8275.9	8452.1	8294.9	8266.3	8304.4	8394.9	8423.5	8456.8	8380.6
42.5°	8704.4	8747.3	9023.5	8980.6	8852.0	8752.0	8742.5	9080.6	8999.7	8913.9	8871.1
45°	9466.3	9428.2	9571.1	9575.8	9409.2	9190.1	9237.7	9547.3	9685.3	9494.9	9566.3
47.5°	10071.0	10090.1	10190.1	10394.8	10009.1	9780.6	9956.8	10456.7	10413.9	10342.5	10409.1
50°	10880.5	10966.2	11280.5	11209.1	10866.2	10585.3	10971.0	11442.4	11494.8	11232.9	11185.3
52.5°	11999.5	12132.9	12304.3	12361.4	12032.9	11932.9	11956.7	12542.4	12413.8	12161.4	11999.5
55°	12980.5	13042.4	13356.6	13828.0	13804.2	13323.3	13599.5	13818.5	13294.7	12775.7	12818.6
57.5°	13399.5	13428.1	14304.2	15247.0	15808.9	15918.4	15604.2	14866.1	13618.5	12618.6	12556.7
60°	12356.7	12628.1	13685.2	15813.7	18380.2	19646.9	17556.5	14985.1	12861.4	11647.2	11556.7
62.5°	9875.8	9890.1	11461.5	14689.9	19980.2	23299.1	18304.1	13866.1	10842.4	9466.3	9104.4
64°	7033.1	7166.4	8971.1	13004.3	19646.9	24784.8	18213.6	12404.3	8937.8	6985.4	6733.1
65°	5047.4	5233.1	6975.9	11290.0	18865.9	24608.6	17942.2	11147.2	7228.3	5333.1	5076.0
67.5°	1857.1	1933.3	2738.0	5647.4	13547.1	20970.6	14218.5	6128.3	3176.1	2261.8	2033.3
70°	861.9	866.6	1014.2	1866.6	5923.6	14023.3	6785.5	2299.9	1195.2	947.6	880.9
72.5°	633.3	647.6	709.5	861.9	1742.8	5937.9	2228.5	942.8	700.0	619.0	604.7
75°	514.3	523.8	542.8	623.8	804.7	1590.4	904.7	652.4	557.1	500.0	480.9
77.5°	395.2	395.2	438.1	476.2	533.3	742.8	600.0	519.0	452.4	395.2	380.9
80°	285.7	290.5	342.8	371.4	361.9	490.5	433.3	428.6	371.4	309.5	285.7
82.5°	166.7	180.9	247.6	266.7	257.1	290.5	314.3	333.3	290.5	214.3	195.2
85°	95.2	100.0	142.9	147.6	147.6	138.1	180.9	200.0	195.2	133.3	119.0
87.5°	28.6	28.6	38.1	38.1	42.9	47.6	71.4	85.7	95.2	66.7	61.9
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	4861.7	4861.7	4861.7	4861.7	4861.7	4861.7	4861.7	4861.7	4861.7	4861.7	4861.7
2.5°	4937.9	4866.5	4871.2	4890.3	4828.4	4852.2	4923.6	4871.2	4857.0	4828.4	4814.1
5°	4914.1	4990.3	4961.7	4971.2	4957.0	4890.3	4880.8	4923.6	4947.4	4904.6	4990.3
7.5°	5080.8	5047.4	5009.3	5023.6	4990.3	5047.4	5085.5	4999.8	5042.7	5018.9	4971.2
10°	5176.0	5114.1	5142.7	5133.1	5109.3	5166.5	5128.4	5118.9	5080.8	5028.4	5104.6
12.5°	5209.3	5280.7	5328.4	5247.4	5261.7	5233.1	5209.3	5209.3	5166.5	5152.2	5166.5
15°	5356.9	5418.8	5399.8	5461.7	5380.7	5409.3	5437.9	5366.5	5404.6	5299.8	5380.7
17.5°	5628.4	5576.0	5642.6	5561.7	5590.3	5647.4	5556.9	5556.9	5585.5	5528.4	5456.9
20°	5799.8	5776.0	5752.2	5756.9	5709.3	5761.7	5733.1	5718.8	5676.0	5695.0	5733.1
22.5°	5961.7	5928.3	5937.9	5952.2	5985.5	5961.7	5947.4	5961.7	5856.9	5952.2	5818.8
25°	6161.7	6252.1	6223.6	6285.5	6190.2	6252.1	6247.4	6156.9	6214.0	6176.0	6147.4
27.5°	6495.0	6447.4	6490.2	6414.0	6480.7	6485.5	6428.3	6580.7	6514.0	6504.5	6485.5
30°	6923.5	6890.2	6861.6	6818.8	6871.2	6828.3	6875.9	6890.2	6828.3	6780.7	6690.2
32.5°	7166.4	7256.9	7290.2	7185.4	7190.2	7214.0	7171.2	7128.3	7166.4	7180.7	7166.4
35°	7509.2	7594.9	7614.0	7533.0	7490.2	7609.2	7523.5	7666.4	7542.6	7547.3	7418.8
37.5°	7909.2	7933.0	8094.9	8004.5	7966.4	7909.2	8066.4	8047.3	8075.9	7847.3	7961.6
40°	8361.6	8447.3	8537.8	8309.2	8304.4	8356.8	8347.3	8456.8	8404.4	8371.1	8290.2
42.5°	8856.8	9037.7	9052.0	8899.7	8804.4	8794.9	8842.5	9085.4	9090.1	8871.1	8775.9
45°	9513.9	9713.9	9661.5	9366.3	9261.5	9247.3	9480.6	9585.3	9675.8	9590.1	9509.2
47.5°	10332.9	10466.3	10428.2	10156.8	9818.7	9913.9	10142.5	10471.0	10375.8	10261.5	10166.3
50°	11209.1	11366.2	11285.3	11013.9	10690.1	10690.1	10971.0	11390.0	11361.5	11137.7	11052.0
52.5°	12180.5	12409.0	12594.8	12209.1	11937.6	11980.5	12423.3	12575.7	12504.3	12347.1	12275.7
55°	12904.3	13342.3	13723.3	13742.3	13756.6	13751.9	13866.1	14018.5	13509.0	13256.6	12999.5
57.5°	12728.1	13556.6	14861.3	15747.0	16008.9	16147.0	16108.9	15404.2	14199.5	13370.9	13456.6
60°	11471.0	12823.3	14928.0	17770.7	19675.4	19485.0	18789.8	16004.1	13818.5	12418.6	12242.4
62.5°	9152.0	10780.5	13809.0	18342.2	23589.6	23532.4	19894.5	14618.5	11513.8	9742.5	9633.0
64°	6895.0	8609.2	12318.6	18194.5	24960.9	25018.1	19613.5	12913.8	9009.2	6895.0	6728.3
65°	5276.0	6866.4	10856.7	17889.8	24665.7	24699.1	18832.6	11152.0	6847.4	4895.0	4714.1
67.5°	2099.9	2923.7	5890.2	13566.1	21180.1	21089.7	13437.6	5395.0	2618.9	1704.7	1671.4
70°	895.2	1114.2	2066.6	6428.3	14180.4	13918.5	5785.5	1752.3	971.4	814.3	809.5
72.5°	614.3	680.9	885.7	1985.6	5895.0	5756.9	1647.6	814.3	661.9	609.5	609.5
75°	495.2	542.8	642.8	833.3	1561.8	1504.7	776.2	600.0	528.6	490.5	485.7
77.5°	385.7	433.3	504.7	576.2	714.3	709.5	519.0	452.4	409.5	380.9	371.4
80°	304.8	352.4	400.0	409.5	466.6	457.1	352.4	357.1	333.3	276.2	271.4
82.5°	209.5	285.7	319.0	290.5	276.2	276.2	252.4	252.4	233.3	171.4	157.1
85°	128.6	190.5	200.0	171.4	128.6	128.6	138.1	133.3	123.8	90.5	85.7
87.5°	66.7	90.5	80.9	66.7	42.9	42.9	38.1	28.6	28.6	23.8	23.8
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)