

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: P478993

Luminaire Tested: **IFLD-S-SA6D-750-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478993
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-750-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ
distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

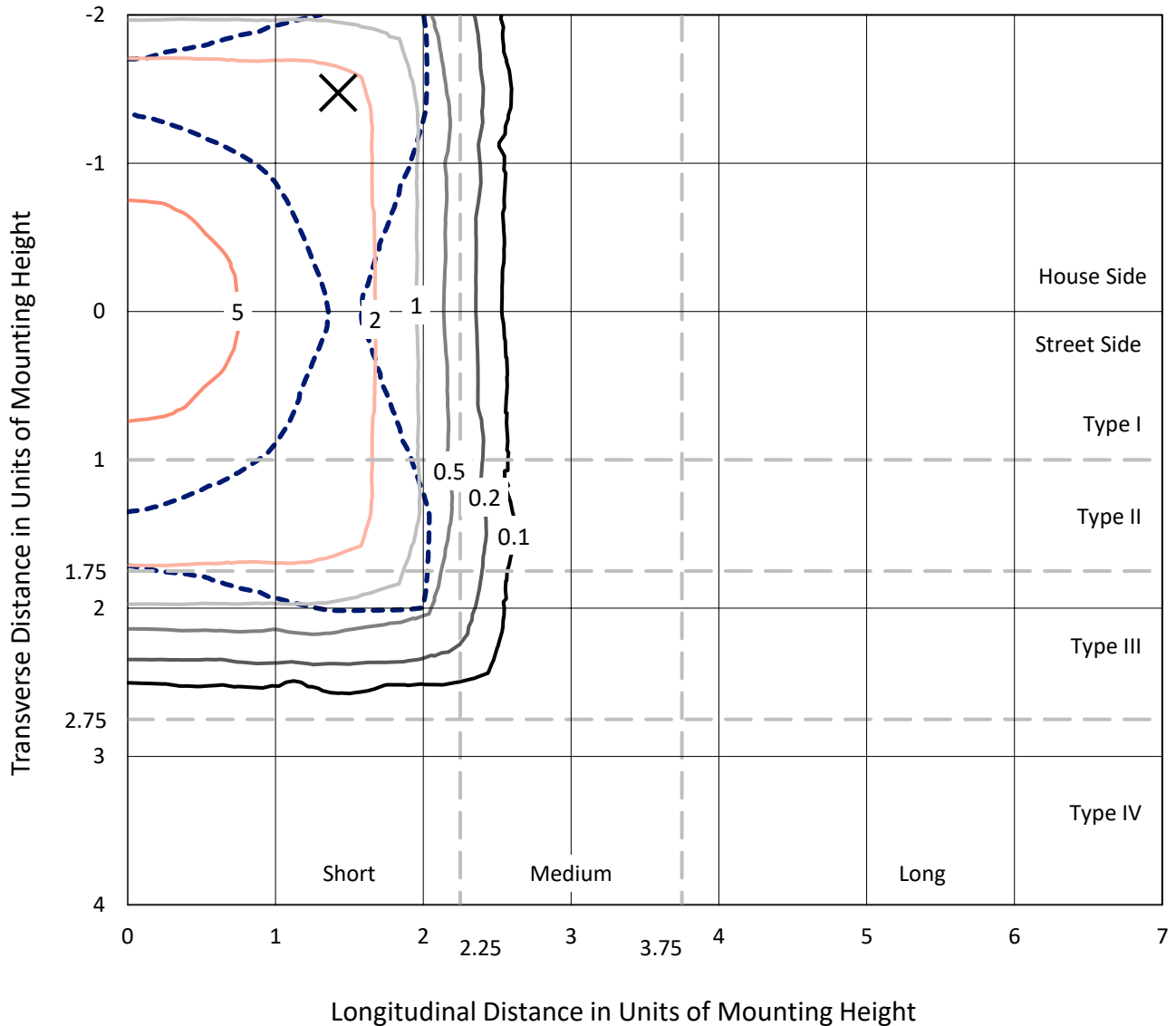
Lumens per Lamp: N/A
Luminaire Lumens: 46646 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

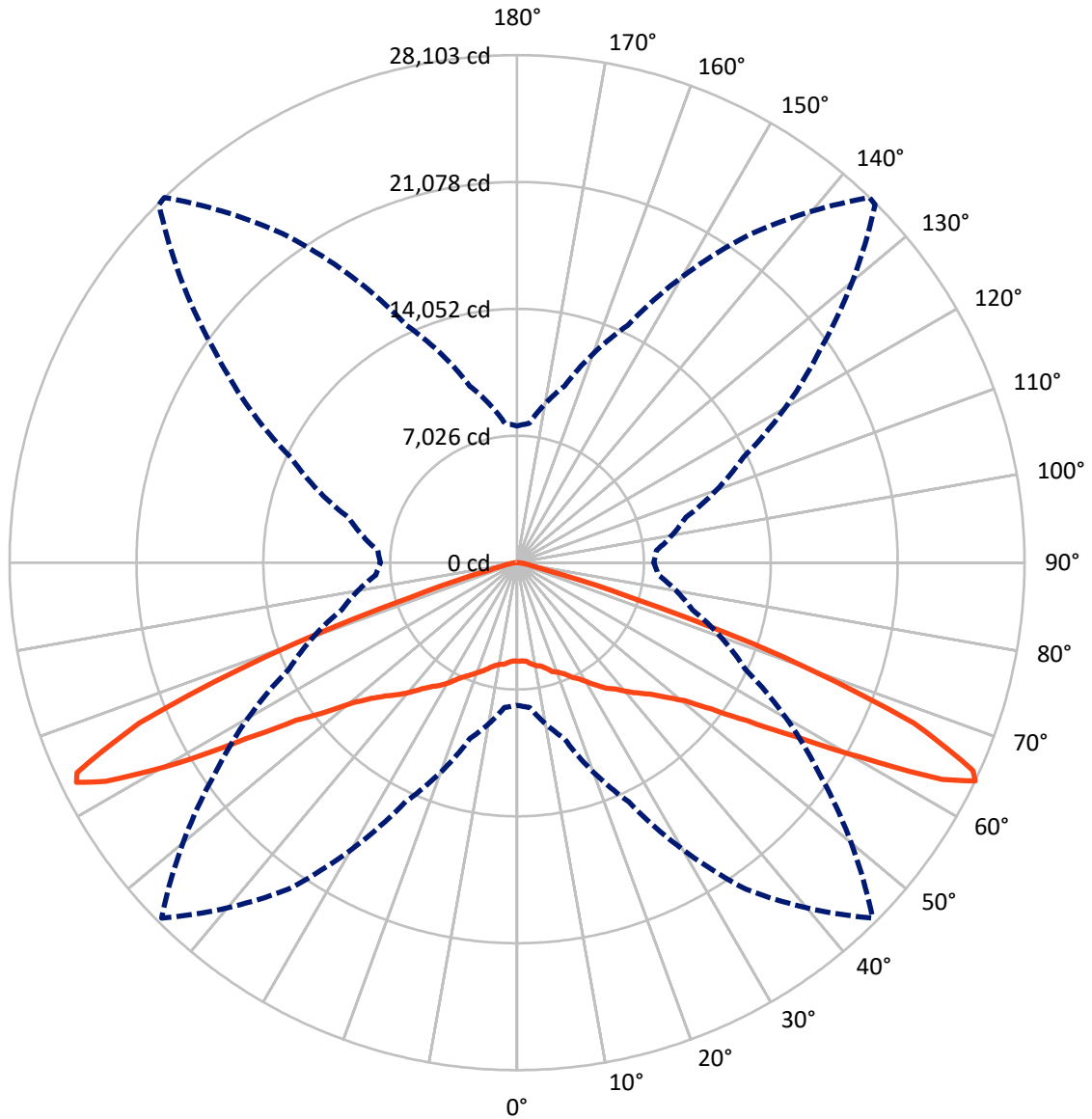
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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	23345.2	0.0	23345.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23300.8	0.0	23300.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	46646.0	0.0	46646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.6	1.2
10°-20°	1729.5	3.7
20°-30°	3250.4	7.0
30°-40°	5360.5	11.5
40°-50°	8383.5	18.0
50°-60°	13545.8	29.0
60°-70°	12197.1	26.1
70°-80°	1444.8	3.1
80°-90°	197.8	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°	46646.0	100.0
0°-180°	46646.0	100.0

Coefficient of Utilization



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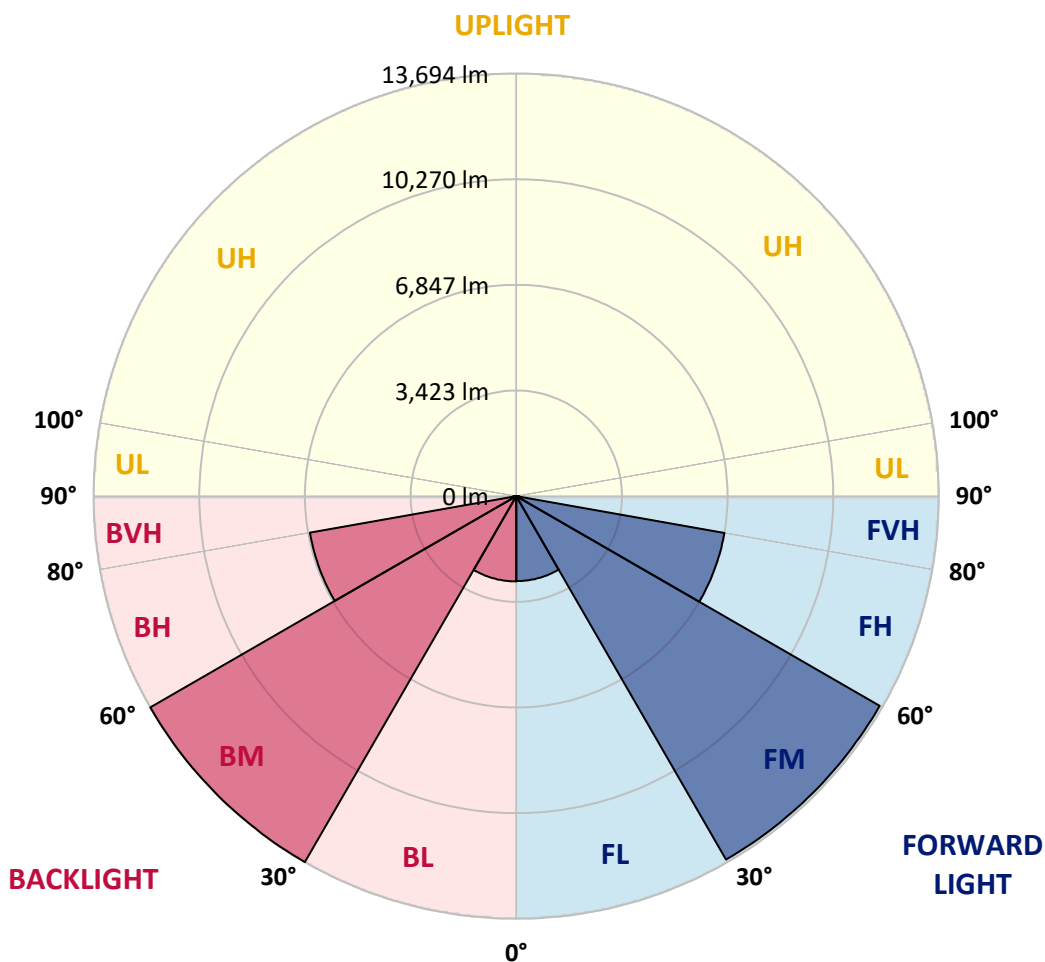
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2753.0	5.9			
FM (30°-60°)	13595.9	29.1			
FH (60°-80°)	6850.5	14.7			G3/7500
FVH (80°-90°)	101.5	0.2			G2/225
BL (0°-30°)	2763.6	5.9	B4/5000		
BM (30°-60°)	13694.0	29.4	B5		
BH (60°-80°)	6791.4	14.6	B5		G3/7500
BVH (80°-90°)	96.3	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°	5461.3	5461.3	5461.3	5461.3	5461.3	5461.3	5461.3	5461.3	5461.3	5461.3	5461.3
2.5°	5397.1	5407.8	5504.1	5466.6	5498.7	5439.9	5482.7	5573.6	5466.6	5546.9	5573.6
5°	5455.9	5472.0	5472.0	5509.4	5530.8	5520.1	5546.9	5509.4	5611.1	5568.3	5632.5
7.5°	5669.9	5643.2	5600.4	5632.5	5637.8	5664.6	5691.3	5739.4	5723.4	5685.9	5750.1
10°	5707.3	5685.9	5750.1	5755.5	5728.7	5707.3	5734.1	5734.1	5782.2	5792.9	5792.9
12.5°	5771.5	5792.9	5787.6	5830.4	5835.7	5819.7	5862.5	5942.7	5921.3	5937.3	5899.9
15°	6017.6	5990.8	5985.5	6028.3	6097.8	5996.2	6071.1	6065.7	6044.3	6076.4	5990.8
17.5°	6231.5	6146.0	6183.4	6252.9	6226.2	6247.6	6343.9	6258.3	6279.7	6242.2	6215.5
20°	6418.8	6349.2	6354.6	6381.3	6381.3	6445.5	6482.9	6450.8	6429.5	6424.1	6434.8
22.5°	6627.4	6547.1	6552.5	6664.8	6702.2	6680.9	6654.1	6707.6	6718.3	6675.5	6723.6
25°	6782.5	6868.1	6894.8	6948.3	6868.1	6926.9	6905.5	7007.1	7071.3	6985.7	7044.6
27.5°	7189.0	7151.6	7221.1	7215.8	7279.9	7221.1	7258.5	7290.6	7317.4	7322.7	7296.0
30°	7552.7	7568.8	7499.2	7686.5	7536.7	7633.0	7697.2	7713.2	7745.3	7745.3	7665.1
32.5°	7937.9	7905.8	8018.1	7975.3	7948.6	8023.4	7953.9	8173.2	8044.8	8119.7	8028.8
35°	8371.1	8371.1	8413.9	8531.6	8371.1	8323.0	8451.4	8542.3	8542.3	8408.6	8440.7
37.5°	8857.9	8815.1	8868.6	9018.4	8895.3	8734.9	8970.2	9007.7	8980.9	8943.5	8879.3
40°	9200.2	9189.5	9296.5	9494.4	9317.9	9285.8	9328.6	9430.2	9462.3	9499.8	9414.2
42.5°	9777.9	9826.0	10136.3	10088.1	9943.7	9831.4	9820.7	10200.5	10109.5	10013.3	9965.1
45°	10633.7	10590.9	10751.4	10756.8	10569.5	10323.5	10377.0	10724.7	10879.8	10665.8	10746.1
47.5°	11313.1	11334.5	11446.8	11676.8	11243.5	10986.8	11184.7	11746.3	11698.2	11617.9	11692.8
50°	12222.4	12318.7	12671.7	12591.5	12206.3	11890.7	12324.0	12853.6	12912.4	12618.2	12564.7
52.5°	13479.4	13629.2	13821.7	13885.9	13516.8	13404.5	13431.2	14089.2	13944.7	13661.2	13479.4
55°	14581.3	14650.8	15003.8	15533.4	15506.6	14966.4	15276.6	15522.7	14934.3	14351.3	14399.4
57.5°	15052.0	15084.1	16068.3	17127.4	17758.6	17881.6	17528.5	16699.5	15298.0	14174.8	14105.2
60°	13880.6	14185.4	15372.9	17763.9	20647.0	22069.8	19721.6	16833.2	14447.5	13083.6	12981.9
62.5°	11093.7	11109.8	12875.0	16501.5	22444.2	26172.5	20561.4	15576.2	12179.6	10633.7	10227.2
64°	7900.4	8050.2	10077.4	14608.0	22069.8	27841.3	20459.8	13934.0	10040.0	7846.9	7563.4
65°	5669.9	5878.5	7836.2	12682.4	21192.6	27643.4	20154.9	12521.9	8119.7	5990.8	5702.0
67.5°	2086.1	2171.7	3075.7	6343.9	15217.8	23556.8	15972.0	6884.1	3567.8	2540.8	2284.0
70°	968.2	973.5	1139.3	2096.8	6654.1	15752.7	7622.3	2583.5	1342.6	1064.4	989.6
72.5°	711.4	727.5	797.0	968.2	1957.7	6670.2	2503.3	1059.1	786.3	695.4	679.3
75°	577.7	588.4	609.8	700.7	904.0	1786.6	1016.3	732.8	625.8	561.6	540.2
77.5°	444.0	444.0	492.1	534.9	599.1	834.4	674.0	583.0	508.2	444.0	427.9
80°	320.9	326.3	385.1	417.2	406.5	550.9	486.8	481.4	417.2	347.7	320.9
82.5°	187.2	203.3	278.1	299.5	288.8	326.3	353.0	374.4	326.3	240.7	219.3
85°	107.0	112.3	160.5	165.8	165.8	155.1	203.3	224.7	219.3	149.8	133.7
87.5°	32.1	32.1	42.8	42.8	48.1	53.5	80.2	96.3	107.0	74.9	69.5
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°	5461.3	5461.3	5461.3	5461.3	5461.3	5461.3	5461.3	5461.3	5461.3	5461.3	5461.3
2.5°	5546.9	5466.6	5472.0	5493.4	5423.8	5450.6	5530.8	5472.0	5455.9	5423.8	5407.8
5°	5520.1	5605.7	5573.6	5584.3	5568.3	5493.4	5482.7	5530.8	5557.6	5509.4	5605.7
7.5°	5707.3	5669.9	5627.1	5643.2	5605.7	5669.9	5712.7	5616.4	5664.6	5637.8	5584.3
10°	5814.3	5744.8	5776.9	5766.2	5739.4	5803.6	5760.8	5750.1	5707.3	5648.5	5734.1
12.5°	5851.8	5932.0	5985.5	5894.6	5910.6	5878.5	5851.8	5851.8	5803.6	5787.6	5803.6
15°	6017.6	6087.1	6065.7	6135.3	6044.3	6076.4	6108.5	6028.3	6071.1	5953.4	6044.3
17.5°	6322.5	6263.6	6338.5	6247.6	6279.7	6343.9	6242.2	6242.2	6274.3	6210.1	6129.9
20°	6515.0	6488.3	6461.5	6466.9	6413.4	6472.2	6440.2	6424.1	6376.0	6397.4	6440.2
22.5°	6696.9	6659.5	6670.2	6686.2	6723.6	6696.9	6680.9	6696.9	6579.2	6686.2	6536.4
25°	6921.6	7023.2	6991.1	7060.6	6953.7	7023.2	7017.8	6916.2	6980.4	6937.6	6905.5
27.5°	7296.0	7242.5	7290.6	7205.1	7279.9	7285.3	7221.1	7392.3	7317.4	7306.7	7285.3
30°	7777.4	7739.9	7707.9	7659.7	7718.6	7670.4	7723.9	7739.9	7670.4	7616.9	7515.3
32.5°	8050.2	8151.8	8189.3	8071.6	8076.9	8103.7	8055.5	8007.4	8050.2	8066.2	8050.2
35°	8435.3	8531.6	8553.0	8462.1	8413.9	8547.6	8451.4	8611.8	8472.8	8478.1	8333.7
37.5°	8884.6	8911.4	9093.2	8991.6	8948.8	8884.6	9061.1	9039.7	9071.8	8815.1	8943.5
40°	9392.8	9489.1	9590.7	9333.9	9328.6	9387.4	9376.7	9499.8	9440.9	9403.5	9312.5
42.5°	9949.1	10152.3	10168.4	9997.2	9890.2	9879.5	9933.0	10205.8	10211.2	9965.1	9858.1
45°	10687.2	10911.9	10853.0	10521.4	10403.7	10387.7	10649.8	10767.5	10869.1	10772.8	10681.9
47.5°	11607.2	11757.0	11714.2	11409.3	11029.6	11136.5	11393.3	11762.4	11655.4	11527.0	11420.0
50°	12591.5	12768.0	12677.0	12372.1	12008.4	12008.4	12324.0	12794.7	12762.6	12511.2	12414.9
52.5°	13682.6	13939.4	14148.0	13714.7	13409.8	13458.0	13955.4	14126.6	14046.4	13869.9	13789.6
55°	14495.7	14987.8	15415.7	15437.1	15453.2	15447.8	15576.2	15747.3	15175.0	14891.5	14602.7
57.5°	14297.8	15228.5	16694.1	17689.0	17983.2	18138.3	18095.5	17303.9	15950.6	15019.9	15116.2
60°	12885.7	14404.8	16769.0	19962.3	22101.9	21888.0	21107.0	17977.9	15522.7	13950.1	13752.2
62.5°	10280.7	12110.1	15512.0	20604.2	26498.8	26434.6	22348.0	16421.3	12933.8	10944.0	10821.0
64°	7745.3	9670.9	13837.8	20438.4	28039.3	28103.4	22032.4	14506.4	10120.2	7745.3	7558.1
65°	5926.7	7713.2	12195.6	20096.1	27707.6	27745.1	21155.1	12527.3	7691.8	5498.7	5295.5
67.5°	2358.9	3284.3	6616.7	15239.2	23792.2	23690.6	15094.8	6060.4	2941.9	1914.9	1877.5
70°	1005.6	1251.7	2321.4	7221.1	15929.2	15635.0	6499.0	1968.4	1091.2	914.7	909.3
72.5°	690.0	764.9	994.9	2230.5	6622.0	6466.9	1850.7	914.7	743.5	684.7	684.7
75°	556.3	609.8	722.1	936.1	1754.5	1690.3	871.9	674.0	593.7	550.9	545.6
77.5°	433.3	486.8	567.0	647.2	802.3	797.0	583.0	508.2	460.0	427.9	417.2
80°	342.3	395.8	449.3	460.0	524.2	513.5	395.8	401.2	374.4	310.2	304.9
82.5°	235.4	320.9	358.4	326.3	310.2	310.2	283.5	283.5	262.1	192.6	176.5
85°	144.4	214.0	224.7	192.6	144.4	144.4	155.1	149.8	139.1	101.6	96.3
87.5°	74.9	101.6	90.9	74.9	48.1	48.1	42.8	32.1	32.1	26.7	26.7
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)