

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: P478954

Luminaire Tested: **IFLD-S-SA6D-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478954
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

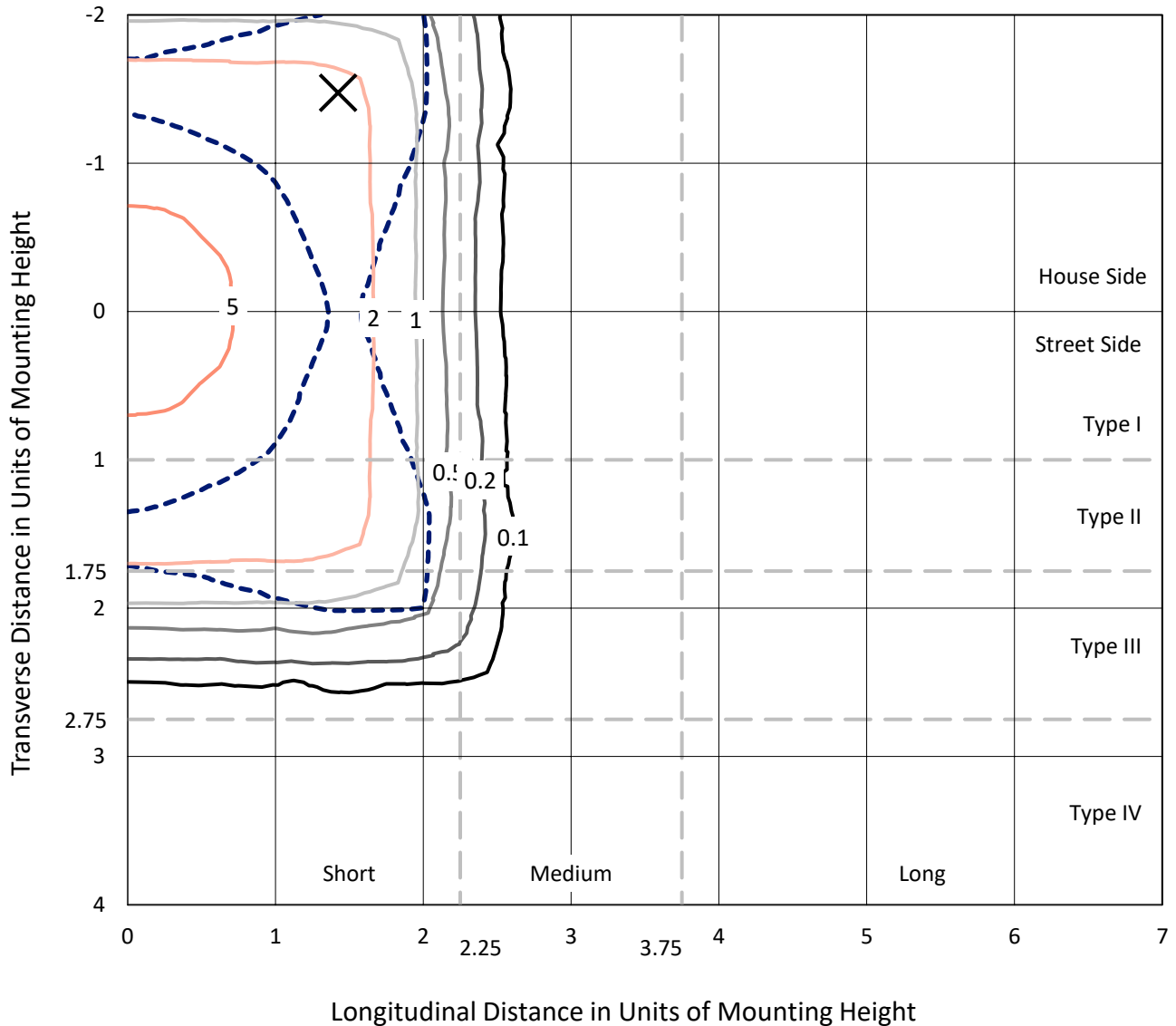
Lumens per Lamp: N/A
Luminaire Lumens: 45601.7 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

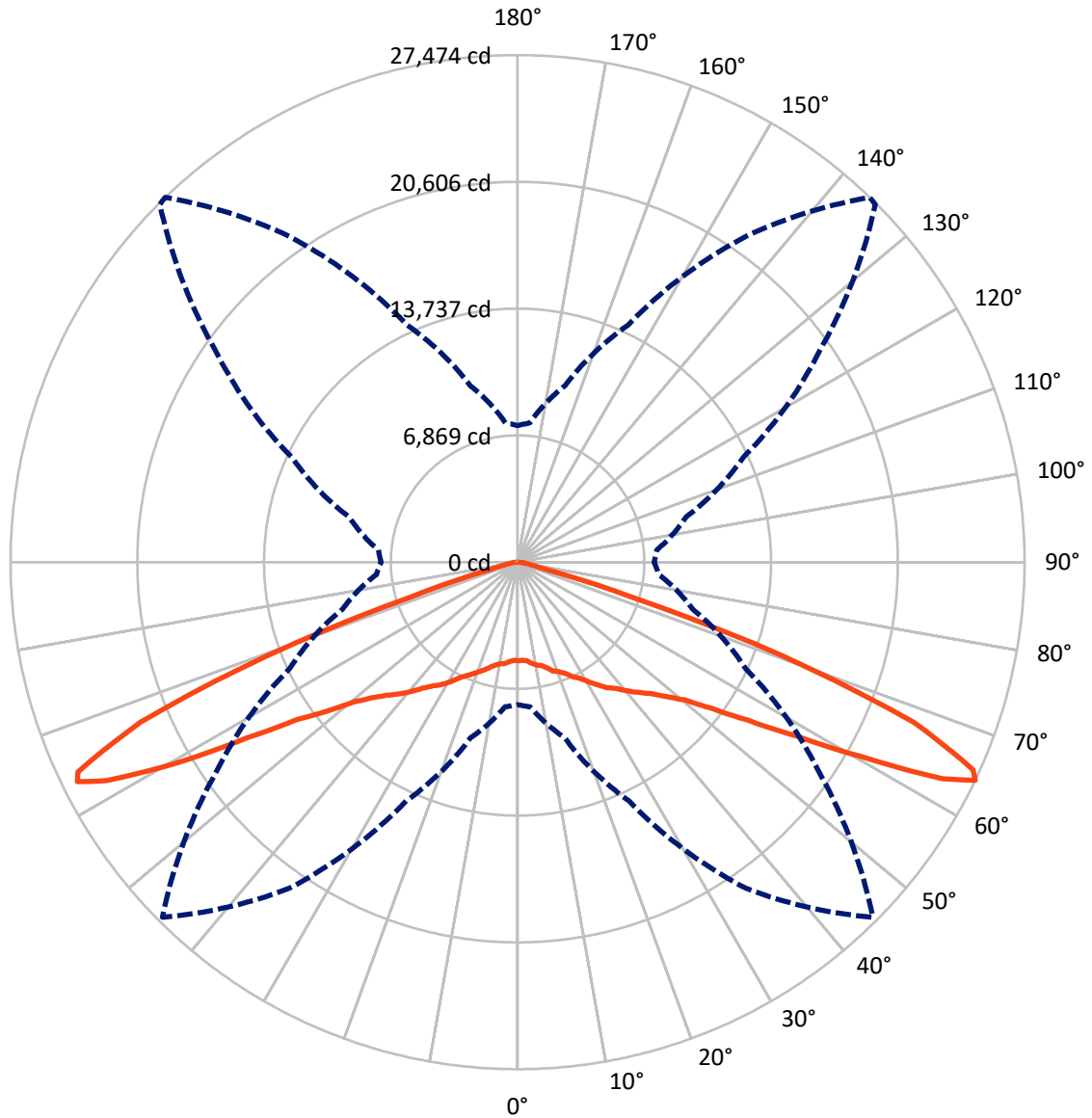
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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	22822.6	0.0	22822.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22779.1	0.0	22779.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	45601.7	0.0	45601.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.6	1.2
10°-20°	1690.8	3.7
20°-30°	3177.7	7.0
30°-40°	5240.5	11.5
40°-50°	8195.8	18.0
50°-60°	13242.5	29.0
60°-70°	11924.0	26.1
70°-80°	1412.5	3.1
80°-90°	193.3	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°	45601.7	100.0
0°-180°	45601.7	100.0

Coefficient of Utilization



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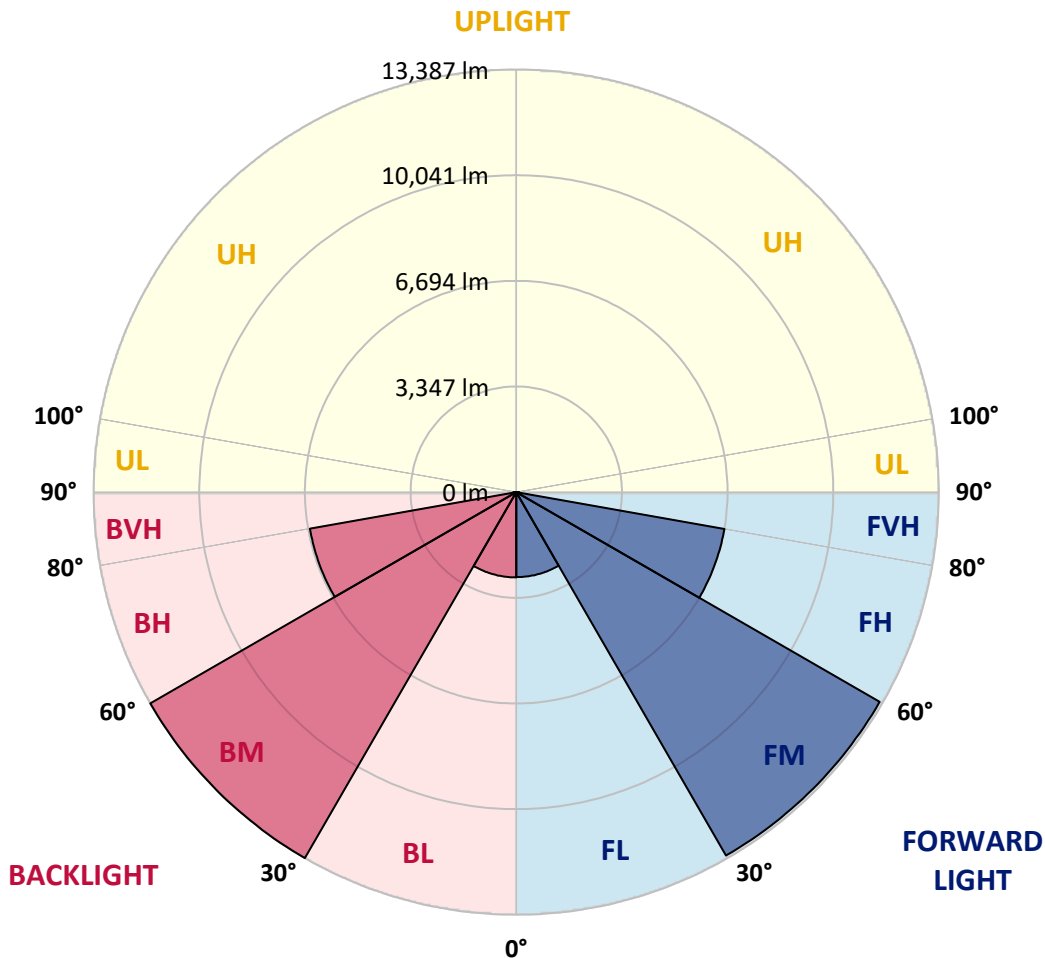
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2691.3	5.9			
FM (30°-60°)	13291.5	29.1			
FH (60°-80°)	6697.1	14.7			G3/7500
FVH (80°-90°)	99.2	0.2			G1/100
BL (0°-30°)	2701.7	5.9	B4/5000		
BM (30°-60°)	13387.4	29.4	B5		
BH (60°-80°)	6639.3	14.6	B5		G3/7500
BVH (80°-90°)	94.2	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°	5339.0	5339.0	5339.0	5339.0	5339.0	5339.0	5339.0	5339.0	5339.0	5339.0	5339.0
2.5°	5276.3	5286.7	5380.9	5344.3	5375.6	5318.1	5359.9	5448.8	5344.3	5422.7	5448.8
5°	5333.8	5349.5	5349.5	5386.1	5407.0	5396.5	5422.7	5386.1	5485.4	5443.6	5506.4
7.5°	5543.0	5516.8	5475.0	5506.4	5511.6	5537.7	5563.9	5610.9	5595.3	5558.7	5621.4
10°	5579.6	5558.7	5621.4	5626.6	5600.5	5579.6	5605.7	5605.7	5652.8	5663.2	5663.2
12.5°	5642.3	5663.2	5658.0	5699.8	5705.1	5689.4	5731.2	5809.7	5788.7	5804.4	5767.8
15°	5882.9	5856.7	5851.5	5893.3	5961.3	5861.9	5935.2	5929.9	5909.0	5940.4	5856.7
17.5°	6092.0	6008.4	6045.0	6113.0	6086.8	6107.7	6201.8	6118.2	6139.1	6102.5	6076.3
20°	6275.1	6207.1	6212.3	6238.5	6238.5	6301.2	6337.8	6306.4	6285.5	6280.3	6290.7
22.5°	6479.0	6400.6	6405.8	6515.6	6552.2	6531.3	6505.1	6557.4	6567.9	6526.1	6573.1
25°	6630.6	6714.3	6740.5	6792.7	6714.3	6771.8	6750.9	6850.3	6913.0	6829.4	6886.9
27.5°	7028.1	6991.5	7059.4	7054.2	7117.0	7059.4	7096.0	7127.4	7153.6	7158.8	7132.6
30°	7383.6	7399.3	7331.4	7514.4	7368.0	7462.1	7524.8	7540.5	7571.9	7571.9	7493.5
32.5°	7760.2	7728.8	7838.6	7796.8	7770.6	7843.8	7775.8	7990.2	7864.7	7937.9	7849.0
35°	8183.7	8183.7	8225.6	8340.6	8183.7	8136.7	8262.2	8351.1	8351.1	8220.3	8251.7
37.5°	8659.6	8617.7	8670.0	8816.5	8696.2	8539.3	8769.4	8806.0	8779.8	8743.2	8680.5
40°	8994.2	8983.8	9088.4	9281.9	9109.3	9077.9	9119.7	9219.1	9250.5	9287.1	9203.4
42.5°	9559.0	9606.1	9909.4	9862.3	9721.1	9611.3	9600.8	9972.1	9883.2	9789.1	9742.0
45°	10395.7	10353.8	10510.7	10515.9	10332.9	10092.4	10144.7	10484.6	10636.2	10427.1	10505.5
47.5°	11059.8	11080.7	11190.5	11415.4	10991.8	10740.8	10934.3	11483.4	11436.3	11357.9	11431.1
50°	11948.8	12042.9	12388.0	12309.6	11933.1	11624.5	12048.1	12565.8	12623.3	12335.7	12283.4
52.5°	13177.6	13324.0	13512.3	13575.0	13214.2	13104.4	13130.6	13773.7	13632.6	13355.4	13177.6
55°	14254.8	14322.8	14667.9	15185.6	15159.5	14631.3	14934.6	15175.2	14600.0	14030.0	14077.0
57.5°	14715.0	14746.4	15708.6	16743.9	17361.0	17481.3	17136.1	16325.6	14955.6	13857.4	13789.4
60°	13569.8	13867.9	15028.8	17366.2	20184.8	21575.7	19280.1	16456.3	14124.1	12790.7	12691.3
62.5°	10845.4	10861.1	12586.7	16132.1	21941.8	25586.5	20101.1	15227.5	11906.9	10395.7	9998.3
64°	7723.5	7870.0	9851.8	14281.0	21575.7	27218.1	20001.7	13622.1	9815.2	7671.3	7394.1
65°	5543.0	5746.9	7660.8	12398.5	20718.1	27024.6	19703.7	12241.6	7937.9	5856.7	5574.3
67.5°	2039.4	2123.1	3006.8	6201.8	14877.1	23029.5	15614.4	6730.0	3487.9	2483.9	2232.9
70°	946.5	951.7	1113.8	2049.9	6505.1	15400.0	7451.6	2525.7	1312.5	1040.6	967.4
72.5°	695.5	711.2	779.2	946.5	1913.9	6520.8	2447.3	1035.4	768.7	679.8	664.1
75°	564.8	575.2	596.1	685.0	883.7	1746.6	993.6	716.4	611.8	549.1	528.2
77.5°	434.0	434.0	481.1	522.9	585.7	815.8	658.9	570.0	496.8	434.0	418.3
80°	313.8	319.0	376.5	407.9	397.4	538.6	475.9	470.6	407.9	339.9	313.8
82.5°	183.0	198.7	271.9	292.8	282.4	319.0	345.1	366.0	319.0	235.3	214.4
85°	104.6	109.8	156.9	162.1	162.1	151.6	198.7	219.6	214.4	146.4	130.7
87.5°	31.4	31.4	41.8	41.8	47.1	52.3	78.4	94.1	104.6	73.2	68.0
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°	5339.0	5339.0	5339.0	5339.0	5339.0	5339.0	5339.0	5339.0	5339.0	5339.0	5339.0
2.5°	5422.7	5344.3	5349.5	5370.4	5302.4	5328.6	5407.0	5349.5	5333.8	5302.4	5286.7
5°	5396.5	5480.2	5448.8	5459.3	5443.6	5370.4	5359.9	5407.0	5433.2	5386.1	5480.2
7.5°	5579.6	5543.0	5501.1	5516.8	5480.2	5543.0	5584.8	5490.7	5537.7	5511.6	5459.3
10°	5684.2	5616.2	5647.6	5637.1	5610.9	5673.7	5631.9	5621.4	5579.6	5522.0	5605.7
12.5°	5720.8	5799.2	5851.5	5762.6	5778.3	5746.9	5720.8	5720.8	5673.7	5658.0	5673.7
15°	5882.9	5950.8	5929.9	5997.9	5909.0	5940.4	5971.8	5893.3	5935.2	5820.1	5909.0
17.5°	6180.9	6123.4	6196.6	6107.7	6139.1	6201.8	6102.5	6102.5	6133.9	6071.1	5992.7
20°	6369.2	6343.0	6316.9	6322.1	6269.8	6327.3	6296.0	6280.3	6233.2	6254.1	6296.0
22.5°	6547.0	6510.4	6520.8	6536.5	6573.1	6547.0	6531.3	6547.0	6431.9	6536.5	6390.1
25°	6766.6	6866.0	6834.6	6902.6	6798.0	6866.0	6860.7	6761.4	6824.1	6782.3	6750.9
27.5°	7132.6	7080.4	7127.4	7043.8	7117.0	7122.2	7059.4	7226.8	7153.6	7143.1	7122.2
30°	7603.3	7566.7	7535.3	7488.2	7545.8	7498.7	7551.0	7566.7	7498.7	7446.4	7347.0
32.5°	7870.0	7969.3	8005.9	7890.9	7896.1	7922.3	7875.2	7828.1	7870.0	7885.7	7870.0
35°	8246.5	8340.6	8361.5	8272.6	8225.6	8356.3	8262.2	8419.0	8283.1	8288.3	8147.1
37.5°	8685.7	8711.9	8889.7	8790.3	8748.5	8685.7	8858.3	8837.4	8868.7	8617.7	8743.2
40°	9182.5	9276.6	9376.0	9125.0	9119.7	9177.3	9166.8	9287.1	9229.6	9193.0	9104.1
42.5°	9726.3	9925.0	9940.7	9773.4	9668.8	9658.4	9710.6	9977.3	9982.6	9742.0	9637.4
45°	10448.0	10667.6	10610.1	10285.9	10170.8	10155.1	10411.4	10526.4	10625.8	10531.6	10442.7
47.5°	11347.4	11493.8	11452.0	11153.9	10782.6	10887.2	11138.2	11499.0	11394.5	11269.0	11164.4
50°	12309.6	12482.1	12393.2	12095.2	11739.6	11739.6	12048.1	12508.3	12476.9	12231.1	12137.0
52.5°	13376.3	13627.3	13831.3	13407.7	13109.6	13156.7	13643.0	13810.4	13731.9	13559.4	13480.9
55°	14171.2	14652.3	15070.6	15091.5	15107.2	15102.0	15227.5	15394.8	14835.3	14558.1	14275.8
57.5°	13977.7	14887.6	16320.4	17293.0	17580.6	17732.3	17690.4	16916.5	15593.5	14683.6	14777.8
60°	12597.2	14082.3	16393.6	19515.4	21607.1	21397.9	20634.5	17575.4	15175.2	13637.8	13444.3
62.5°	10050.5	11838.9	15164.7	20142.9	25905.5	25842.8	21847.7	16053.7	12644.2	10699.0	10578.7
64°	7571.9	9454.4	13528.0	19980.8	27411.5	27474.3	21539.1	14181.6	9893.7	7571.9	7388.9
65°	5794.0	7540.5	11922.6	19646.2	27087.3	27123.9	20681.5	12246.8	7519.6	5375.6	5176.9
67.5°	2306.1	3210.7	6468.5	14898.0	23259.5	23160.2	14756.8	5924.7	2876.1	1872.1	1835.5
70°	983.1	1223.6	2269.5	7059.4	15572.6	15285.0	6353.5	1924.4	1066.8	894.2	889.0
72.5°	674.6	747.8	972.6	2180.6	6473.8	6322.1	1809.3	894.2	726.9	669.3	669.3
75°	543.8	596.1	705.9	915.1	1715.2	1652.4	852.4	658.9	580.4	538.6	533.4
77.5°	423.6	475.9	554.3	632.7	784.4	779.2	570.0	496.8	449.7	418.3	407.9
80°	334.7	387.0	439.3	449.7	512.5	502.0	387.0	392.2	366.0	303.3	298.1
82.5°	230.1	313.8	350.4	319.0	303.3	303.3	277.1	277.1	256.2	188.3	172.6
85°	141.2	209.2	219.6	188.3	141.2	141.2	151.6	146.4	136.0	99.4	94.1
87.5°	73.2	99.4	88.9	73.2	47.1	47.1	41.8	31.4	31.4	26.1	26.1
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)