

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: P479045

Luminaire Tested: **IFLD-L-SA8B-760-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479045
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-760-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

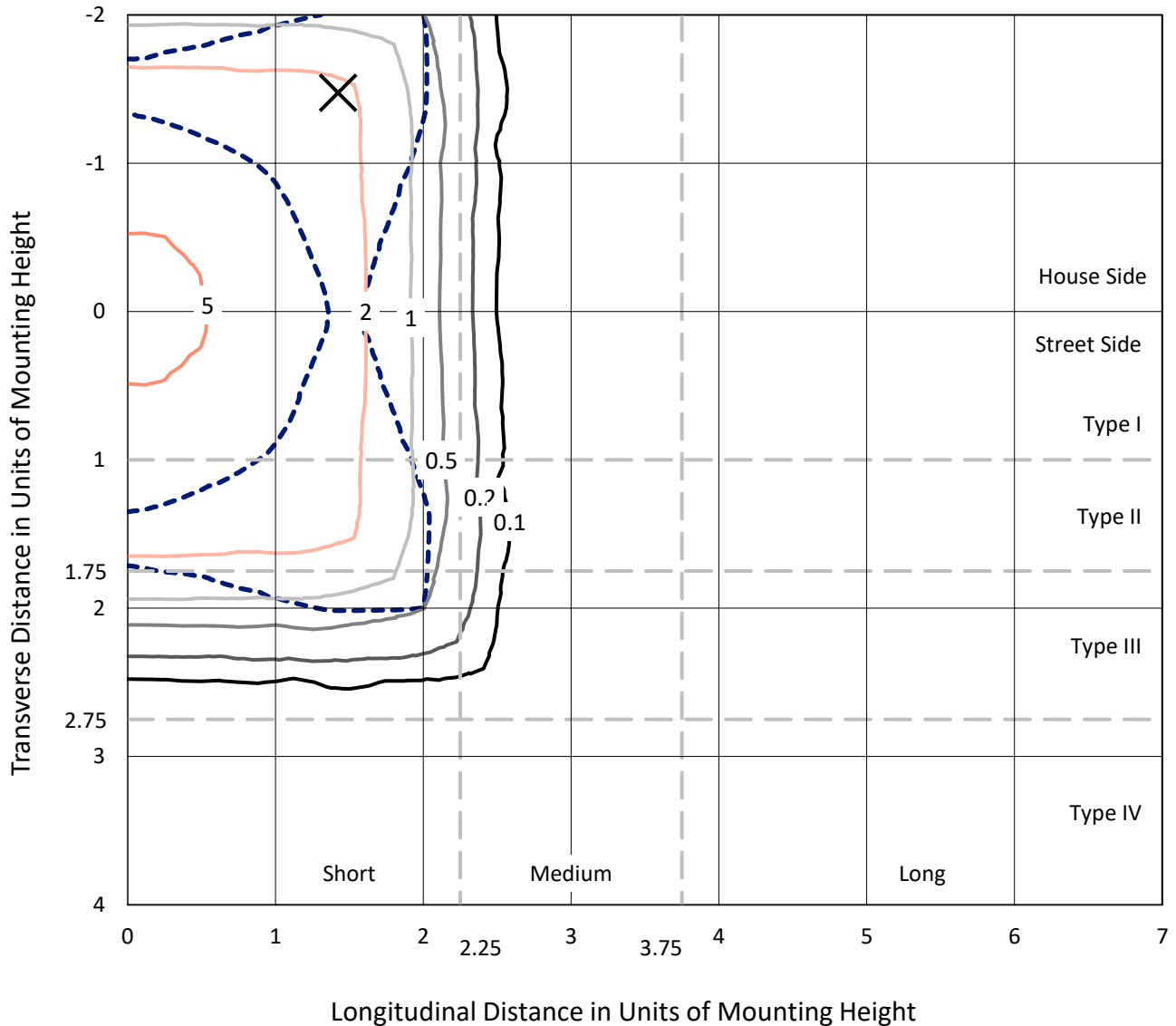
Lumens per Lamp: N/A
Luminaire Lumens: 41521.3 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 320
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

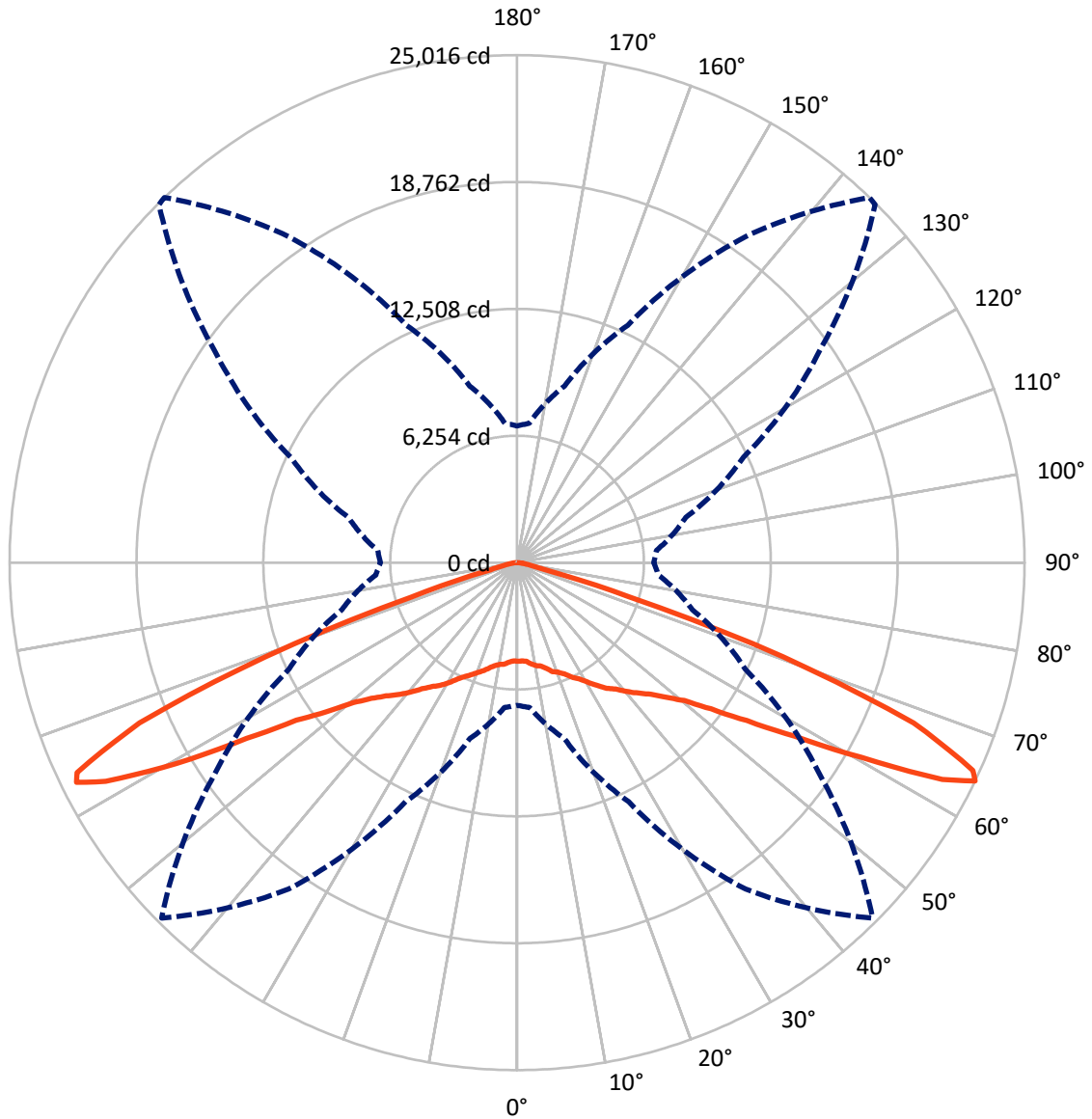
× Max cd
 - - - 1/2 Max cd



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	20780.5	0.0	20780.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20740.9	0.0	20740.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	41521.3	0.0	41521.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.7	1.2
10°-20°	1539.5	3.7
20°-30°	2893.3	7.0
30°-40°	4771.6	11.5
40°-50°	7462.5	18.0
50°-60°	12057.6	29.0
60°-70°	10857.1	26.1
70°-80°	1286.1	3.1
80°-90°	176.0	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°	41521.3	100.0
0°-180°	41521.3	100.0

Coefficient of Utilization



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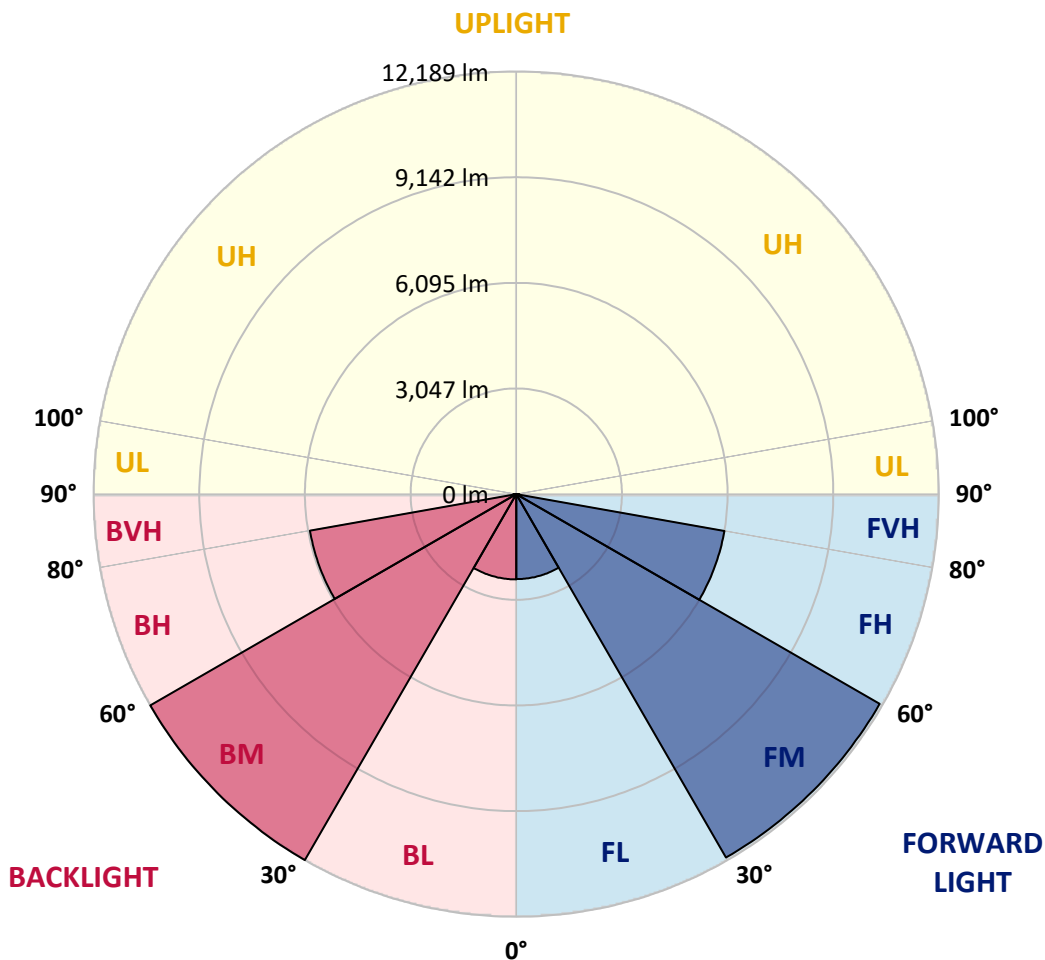
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2450.5	5.9			
FM (30°-60°)	12102.2	29.1			
FH (60°-80°)	6097.9	14.7			G3/7500
FVH (80°-90°)	90.3	0.2			G1/100
BL (0°-30°)	2460.0	5.9	B3/2500		
BM (30°-60°)	12189.5	29.4	B5		
BH (60°-80°)	6045.2	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°	4861.3	4861.3	4861.3	4861.3	4861.3	4861.3	4861.3	4861.3	4861.3	4861.3	4861.3
2.5°	4804.2	4813.7	4899.4	4866.1	4894.6	4842.2	4880.3	4961.3	4866.1	4937.5	4961.3
5°	4856.5	4870.8	4870.8	4904.1	4923.2	4913.7	4937.5	4904.1	4994.6	4956.5	5013.7
7.5°	5047.0	5023.2	4985.1	5013.7	5018.4	5042.2	5066.0	5108.9	5094.6	5061.3	5118.4
10°	5080.3	5061.3	5118.4	5123.2	5099.4	5080.3	5104.1	5104.1	5147.0	5156.5	5156.5
12.5°	5137.5	5156.5	5151.7	5189.8	5194.6	5180.3	5218.4	5289.8	5270.8	5285.1	5251.7
15°	5356.5	5332.7	5327.9	5366.0	5427.9	5337.4	5404.1	5399.3	5380.3	5408.8	5332.7
17.5°	5546.9	5470.7	5504.1	5566.0	5542.2	5561.2	5646.9	5570.7	5589.8	5556.4	5532.6
20°	5713.6	5651.7	5656.4	5680.2	5680.2	5737.4	5770.7	5742.1	5723.1	5718.3	5727.9
22.5°	5899.3	5827.8	5832.6	5932.6	5965.9	5946.9	5923.1	5970.7	5980.2	5942.1	5985.0
25°	6037.3	6113.5	6137.3	6184.9	6113.5	6165.9	6146.8	6237.3	6294.4	6218.3	6270.6
27.5°	6399.2	6365.9	6427.8	6423.0	6480.1	6427.8	6461.1	6489.7	6513.5	6518.2	6494.4
30°	6723.0	6737.2	6675.4	6842.0	6708.7	6794.4	6851.5	6865.8	6894.4	6894.4	6823.0
32.5°	7065.8	7037.2	7137.2	7099.1	7075.3	7142.0	7080.1	7275.3	7161.0	7227.7	7146.7
35°	7451.4	7451.4	7489.5	7594.3	7451.4	7408.6	7522.9	7603.8	7603.8	7484.8	7513.3
37.5°	7884.7	7846.6	7894.2	8027.6	7918.1	7775.2	7984.7	8018.0	7994.2	7960.9	7903.8
40°	8189.4	8179.9	8275.2	8451.3	8294.2	8265.6	8303.7	8394.2	8422.8	8456.1	8379.9
42.5°	8703.7	8746.5	9022.7	8979.8	8851.3	8751.3	8741.8	9079.8	8998.9	8913.2	8870.3
45°	9465.5	9427.4	9570.2	9575.0	9408.3	9189.3	9236.9	9546.4	9684.5	9494.0	9565.5
47.5°	10070.2	10089.2	10189.2	10393.9	10008.3	9779.7	9955.9	10455.8	10413.0	10341.6	10408.2
50°	10879.6	10965.3	11279.5	11208.1	10865.3	10584.4	10970.1	11441.4	11493.8	11231.9	11184.3
52.5°	11998.5	12131.8	12303.2	12360.4	12031.8	11931.8	11955.6	12541.3	12412.7	12160.4	11998.5
55°	12979.3	13041.2	13355.5	13826.8	13803.0	13322.1	13598.3	13817.3	13293.6	12774.6	12817.4
57.5°	13398.3	13426.9	14303.0	15245.7	15807.5	15917.1	15602.8	14864.8	13617.3	12617.5	12555.6
60°	12355.6	12627.0	13684.0	15812.3	18378.6	19645.2	17554.9	14983.8	12860.3	11646.2	11555.7
62.5°	9875.0	9889.2	11460.5	14688.6	19978.4	23297.1	18302.5	13864.9	10841.5	9465.5	9103.6
64°	7032.5	7165.8	8970.3	13003.1	19645.2	24782.6	18212.0	12403.2	8937.0	6984.8	6732.5
65°	5047.0	5232.7	6975.3	11289.1	18864.3	24606.4	17940.6	11146.2	7227.7	5332.7	5075.6
67.5°	1856.9	1933.1	2737.8	5646.9	13545.9	20968.8	14217.3	6127.8	3175.8	2261.6	2033.1
70°	861.8	866.6	1014.2	1866.4	5923.1	14022.0	6784.9	2299.7	1195.1	947.5	880.8
72.5°	633.3	647.5	709.4	861.8	1742.6	5937.4	2228.3	942.7	699.9	619.0	604.7
75°	514.2	523.7	542.8	623.7	804.7	1590.3	904.6	652.3	557.1	499.9	480.9
77.5°	395.2	395.2	438.0	476.1	533.3	742.8	599.9	519.0	452.3	395.2	380.9
80°	285.7	290.4	342.8	371.4	361.9	490.4	433.3	428.5	371.4	309.5	285.7
82.5°	166.6	180.9	247.6	266.6	257.1	290.4	314.2	333.3	290.4	214.3	195.2
85°	95.2	100.0	142.8	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°	4861.3	4861.3	4861.3	4861.3	4861.3	4861.3	4861.3	4861.3	4861.3	4861.3	4861.3
2.5°	4937.5	4866.1	4870.8	4889.9	4828.0	4851.8	4923.2	4870.8	4856.5	4828.0	4813.7
5°	4913.7	4989.9	4961.3	4970.8	4956.5	4889.9	4880.3	4923.2	4947.0	4904.1	4989.9
7.5°	5080.3	5047.0	5008.9	5023.2	4989.9	5047.0	5085.1	4999.4	5042.2	5018.4	4970.8
10°	5175.5	5113.6	5142.2	5132.7	5108.9	5166.0	5127.9	5118.4	5080.3	5027.9	5104.1
12.5°	5208.9	5280.3	5327.9	5247.0	5261.2	5232.7	5208.9	5208.9	5166.0	5151.7	5166.0
15°	5356.5	5418.4	5399.3	5461.2	5380.3	5408.8	5437.4	5366.0	5404.1	5299.3	5380.3
17.5°	5627.9	5575.5	5642.1	5561.2	5589.8	5646.9	5556.4	5556.4	5585.0	5527.9	5456.5
20°	5799.3	5775.5	5751.7	5756.4	5708.8	5761.2	5732.6	5718.3	5675.5	5694.5	5732.6
22.5°	5961.2	5927.8	5937.4	5951.6	5985.0	5961.2	5946.9	5961.2	5856.4	5951.6	5818.3
25°	6161.1	6251.6	6223.0	6284.9	6189.7	6251.6	6246.8	6156.4	6213.5	6175.4	6146.8
27.5°	6494.4	6446.8	6489.7	6413.5	6480.1	6484.9	6427.8	6580.1	6513.5	6503.9	6484.9
30°	6922.9	6889.6	6861.0	6818.2	6870.6	6827.7	6875.3	6889.6	6827.7	6780.1	6689.6
32.5°	7165.8	7256.2	7289.6	7184.8	7189.6	7213.4	7170.5	7127.7	7165.8	7180.1	7165.8
35°	7508.6	7594.3	7613.3	7532.4	7489.5	7608.6	7522.9	7665.7	7541.9	7546.7	7418.1
37.5°	7908.5	7932.3	8094.2	8003.8	7965.7	7908.5	8065.7	8046.6	8075.2	7846.6	7960.9
40°	8360.9	8446.6	8537.0	8308.5	8303.7	8356.1	8346.6	8456.1	8403.7	8370.4	8289.4
42.5°	8856.0	9037.0	9051.2	8898.9	8803.7	8794.1	8841.7	9084.6	9089.3	8870.3	8775.1
45°	9513.1	9713.1	9660.7	9365.5	9260.7	9246.5	9479.8	9584.5	9675.0	9589.3	9508.3
47.5°	10332.0	10465.4	10427.3	10155.9	9817.8	9913.0	10141.6	10470.1	10374.9	10260.6	10165.4
50°	11208.1	11365.2	11284.3	11012.9	10689.1	10689.1	10970.1	11389.0	11360.5	11136.7	11051.0
52.5°	12179.4	12408.0	12593.7	12208.0	11936.6	11979.4	12422.3	12574.6	12503.2	12346.1	12274.7
55°	12903.1	13341.2	13722.1	13741.1	13755.4	13750.7	13864.9	14017.3	13507.8	13255.5	12998.4
57.5°	12727.0	13555.4	14860.0	15745.6	16007.5	16145.6	16107.5	15402.8	14198.2	13369.8	13455.5
60°	11470.0	12822.2	14926.7	17769.2	19673.7	19483.3	18788.1	16002.8	13817.3	12417.5	12241.3
62.5°	9151.2	10779.6	13807.8	18340.6	23587.5	23530.4	19892.7	14617.2	11512.8	9741.6	9632.1
64°	6894.4	8608.4	12317.5	18193.0	24958.8	25015.9	19611.8	12912.7	9008.4	6894.4	6727.7
65°	5275.5	6865.8	10855.8	17888.2	24663.6	24696.9	18831.0	11151.0	6846.8	4894.6	4713.7
67.5°	2099.7	2923.4	5889.7	13565.0	21178.3	21087.8	13436.4	5394.6	2618.7	1704.5	1671.2
70°	895.1	1114.1	2066.4	6427.8	14179.2	13917.3	5785.0	1752.2	971.3	814.2	809.4
72.5°	614.2	680.9	885.6	1985.5	5894.5	5756.4	1647.4	814.2	661.8	609.4	609.4
75°	495.2	542.8	642.8	833.2	1561.7	1504.6	776.1	599.9	528.5	490.4	485.7
77.5°	385.7	433.3	504.7	576.1	714.2	709.4	519.0	452.3	409.5	380.9	371.4
80°	304.7	352.3	399.9	409.5	466.6	457.1	352.3	357.1	333.3	276.2	271.4
82.5°	209.5	285.7	319.0	290.4	276.2	276.2	252.3	252.3	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)