

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: P478852

Luminaire Tested: **IFLD-L-SA8D-727-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478852
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

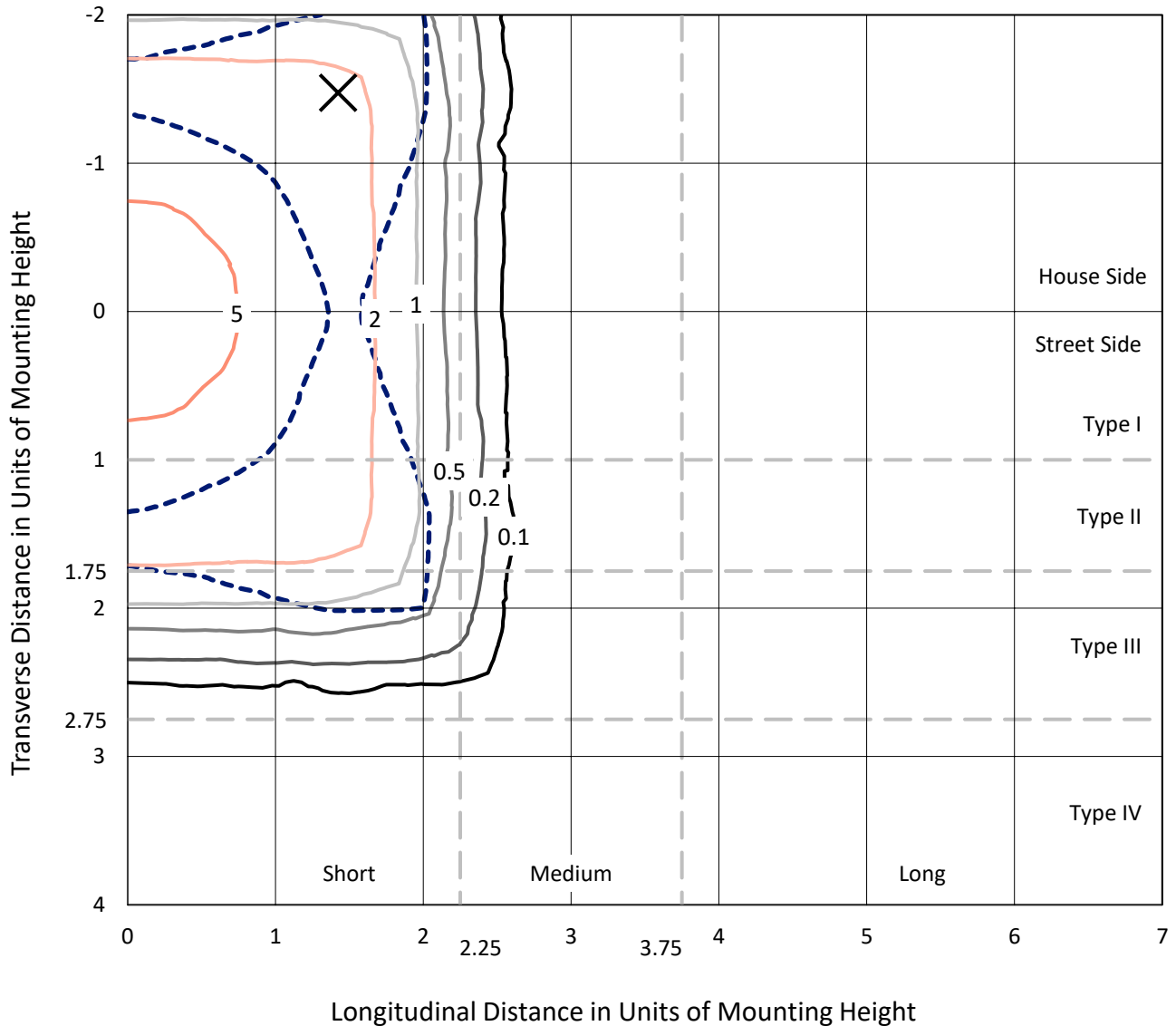
Lumens per Lamp: N/A
Luminaire Lumens: 46499.3 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 488.3
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

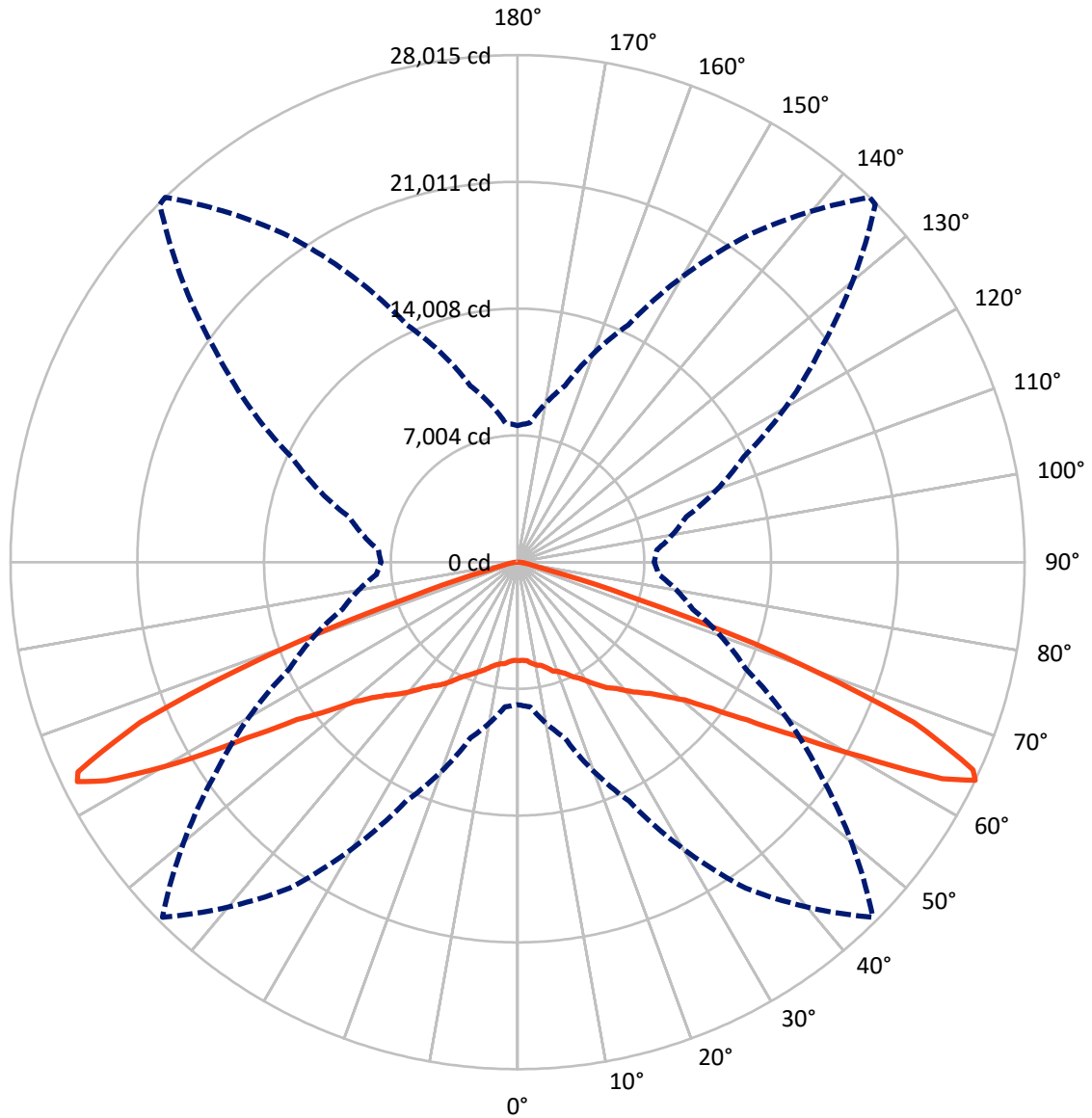
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	23271.8	0.0	23271.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23227.5	0.0	23227.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	46499.3	0.0	46499.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.9	1.2
10°-20°	1724.1	3.7
20°-30°	3240.2	7.0
30°-40°	5343.7	11.5
40°-50°	8357.2	18.0
50°-60°	13503.1	29.0
60°-70°	12158.7	26.1
70°-80°	1440.3	3.1
80°-90°	197.1	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°	46499.3	100.0
0°-180°	46499.3	100.0

Coefficient of Utilization



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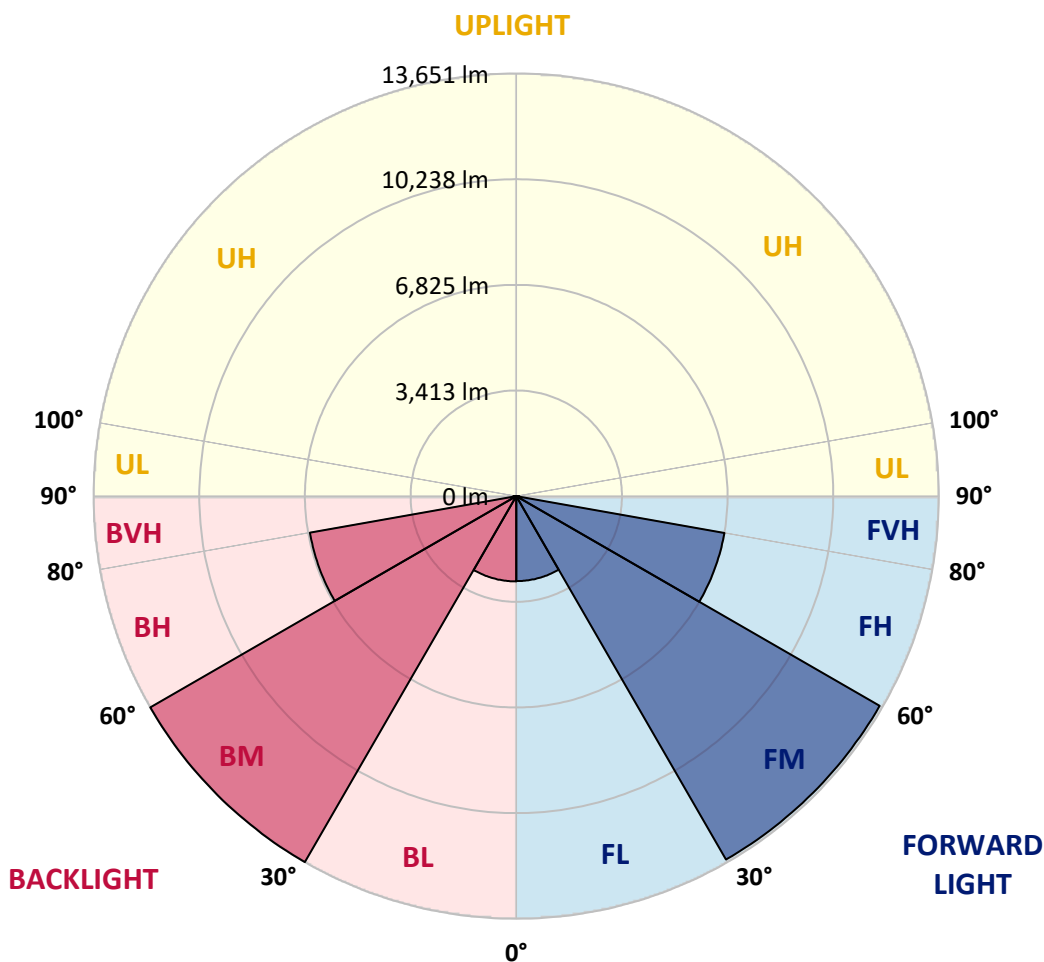
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2744.3	5.9			
FM (30°-60°)	13553.1	29.1			
FH (60°-80°)	6828.9	14.7			G3/7500
FVH (80°-90°)	101.1	0.2			G2/225
BL (0°-30°)	2754.9	5.9	B4/5000		
BM (30°-60°)	13650.9	29.4	B5		
BH (60°-80°)	6770.0	14.6	B5		G3/7500
BVH (80°-90°)	96.0	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°	5444.1	5444.1	5444.1	5444.1	5444.1	5444.1	5444.1	5444.1	5444.1	5444.1	5444.1
2.5°	5380.1	5390.8	5486.8	5449.4	5481.4	5422.8	5465.4	5556.1	5449.4	5529.4	5556.1
5°	5438.8	5454.8	5454.8	5492.1	5513.4	5502.8	5529.4	5492.1	5593.4	5550.8	5614.7
7.5°	5652.1	5625.4	5582.7	5614.7	5620.1	5646.7	5673.4	5721.4	5705.4	5668.1	5732.0
10°	5689.4	5668.1	5732.0	5737.4	5710.7	5689.4	5716.1	5716.1	5764.0	5774.7	5774.7
12.5°	5753.4	5774.7	5769.4	5812.0	5817.4	5801.4	5844.0	5924.0	5902.7	5918.7	5881.3
15°	5998.7	5972.0	5966.7	6009.3	6078.6	5977.3	6052.0	6046.6	6025.3	6057.3	5972.0
17.5°	6211.9	6126.6	6164.0	6233.3	6206.6	6227.9	6323.9	6238.6	6259.9	6222.6	6195.9
20°	6398.6	6329.2	6334.6	6361.2	6361.2	6425.2	6462.6	6430.6	6409.2	6403.9	6414.6
22.5°	6606.5	6526.5	6531.9	6643.8	6681.2	6659.8	6633.2	6686.5	6697.2	6654.5	6702.5
25°	6761.2	6846.5	6873.1	6926.4	6846.5	6905.1	6883.8	6985.1	7049.1	6963.8	7022.4
27.5°	7166.4	7129.1	7198.4	7193.1	7257.0	7198.4	7235.7	7267.7	7294.4	7299.7	7273.0
30°	7529.0	7545.0	7475.7	7662.3	7513.0	7609.0	7672.9	7688.9	7720.9	7720.9	7641.0
32.5°	7912.9	7880.9	7992.9	7950.2	7923.6	7998.2	7928.9	8147.5	8019.5	8094.2	8003.5
35°	8344.8	8344.8	8387.5	8504.8	8344.8	8296.8	8424.8	8515.4	8515.4	8382.1	8414.1
37.5°	8830.0	8787.4	8840.7	8990.0	8867.3	8707.4	8942.0	8979.3	8952.7	8915.3	8851.3
40°	9171.3	9160.6	9267.3	9464.5	9288.6	9256.6	9299.2	9400.6	9432.6	9469.9	9384.6
42.5°	9747.1	9795.1	10104.4	10056.4	9912.4	9800.5	9789.8	10168.4	10077.7	9981.8	9933.8
45°	10600.3	10557.6	10717.6	10722.9	10536.3	10291.0	10344.3	10690.9	10845.6	10632.3	10712.3
47.5°	11277.5	11298.8	11410.8	11640.1	11208.2	10952.2	11149.5	11709.4	11661.4	11581.4	11656.1
50°	12183.9	12279.9	12631.8	12551.9	12167.9	11853.3	12285.2	12813.1	12871.8	12578.5	12525.2
52.5°	13437.0	13586.3	13778.2	13842.2	13474.3	13362.3	13389.0	14044.8	13900.9	13618.3	13437.0
55°	14535.4	14604.7	14956.6	15484.5	15457.9	14919.3	15228.6	15473.9	14887.3	14306.1	14354.1
57.5°	15004.6	15036.6	16017.7	17073.5	17702.7	17825.3	17473.4	16646.9	15249.9	14130.2	14060.8
60°	13836.9	14140.8	15324.6	17708.0	20582.1	22000.4	19659.6	16780.2	14402.1	13042.4	12941.1
62.5°	11058.9	11074.8	12834.5	16449.6	22373.6	26090.1	20496.7	15527.2	12141.3	10600.3	10195.0
64°	7875.6	8024.9	10045.7	14562.1	22000.4	27753.8	20395.4	13890.2	10008.4	7822.2	7539.6
65°	5652.1	5860.0	7811.6	12642.5	21125.9	27556.5	20091.5	12482.5	8094.2	5972.0	5684.1
67.5°	2079.5	2164.8	3066.0	6323.9	15169.9	23482.7	15921.8	6862.5	3556.5	2532.8	2276.8
70°	965.1	970.4	1135.7	2090.2	6633.2	15703.1	7598.3	2575.4	1338.4	1061.1	986.4
72.5°	709.2	725.2	794.5	965.1	1951.6	6649.2	2495.4	1055.8	783.8	693.2	677.2
75°	575.9	586.5	607.9	698.5	901.1	1780.9	1013.1	730.5	623.9	559.9	538.5
77.5°	442.6	442.6	490.6	533.2	597.2	831.8	671.8	581.2	506.6	442.6	426.6
80°	319.9	325.3	383.9	415.9	405.2	549.2	485.2	479.9	415.9	346.6	319.9
82.5°	186.6	202.6	277.3	298.6	287.9	325.3	351.9	373.2	325.3	239.9	218.6
85°	106.6	112.0	160.0	165.3	165.3	154.6	202.6	223.9	218.6	149.3	133.3
87.5°	32.0	32.0	42.7	42.7	48.0	53.3	80.0	96.0	106.6	74.6	69.3
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°	5444.1	5444.1	5444.1	5444.1	5444.1	5444.1	5444.1	5444.1	5444.1	5444.1	5444.1
2.5°	5529.4	5449.4	5454.8	5476.1	5406.8	5433.4	5513.4	5454.8	5438.8	5406.8	5390.8
5°	5502.8	5588.1	5556.1	5566.8	5550.8	5476.1	5465.4	5513.4	5540.1	5492.1	5588.1
7.5°	5689.4	5652.1	5609.4	5625.4	5588.1	5652.1	5694.7	5598.7	5646.7	5620.1	5566.8
10°	5796.0	5726.7	5758.7	5748.0	5721.4	5785.4	5742.7	5732.0	5689.4	5630.7	5716.1
12.5°	5833.4	5913.3	5966.7	5876.0	5892.0	5860.0	5833.4	5833.4	5785.4	5769.4	5785.4
15°	5998.7	6068.0	6046.6	6116.0	6025.3	6057.3	6089.3	6009.3	6052.0	5934.7	6025.3
17.5°	6302.6	6243.9	6318.6	6227.9	6259.9	6323.9	6222.6	6222.6	6254.6	6190.6	6110.6
20°	6494.5	6467.9	6441.2	6446.6	6393.2	6451.9	6419.9	6403.9	6355.9	6377.2	6419.9
22.5°	6675.8	6638.5	6649.2	6665.2	6702.5	6675.8	6659.8	6675.8	6558.5	6665.2	6515.9
25°	6899.8	7001.1	6969.1	7038.4	6931.8	7001.1	6995.8	6894.5	6958.4	6915.8	6883.8
27.5°	7273.0	7219.7	7267.7	7182.4	7257.0	7262.4	7198.4	7369.0	7294.4	7283.7	7262.4
30°	7752.9	7715.6	7683.6	7635.6	7694.3	7646.3	7699.6	7715.6	7646.3	7593.0	7491.7
32.5°	8024.9	8126.2	8163.5	8046.2	8051.5	8078.2	8030.2	7982.2	8024.9	8040.9	8024.9
35°	8408.8	8504.8	8526.1	8435.4	8387.5	8520.8	8424.8	8584.7	8446.1	8451.4	8307.5
37.5°	8856.7	8883.3	9064.6	8963.3	8920.7	8856.7	9032.6	9011.3	9043.3	8787.4	8915.3
40°	9363.2	9459.2	9560.5	9304.6	9299.2	9357.9	9347.2	9469.9	9411.2	9373.9	9283.3
42.5°	9917.8	10120.4	10136.4	9965.8	9859.1	9848.5	9901.8	10173.7	10179.1	9933.8	9827.1
45°	10653.6	10877.6	10818.9	10488.3	10371.0	10355.0	10616.3	10733.6	10834.9	10738.9	10648.3
47.5°	11570.7	11720.0	11677.4	11373.4	10994.9	11101.5	11357.5	11725.4	11618.7	11490.8	11384.1
50°	12551.9	12727.8	12637.2	12333.2	11970.6	11970.6	12285.2	12754.5	12722.5	12471.9	12375.9
52.5°	13639.6	13895.6	14103.5	13671.6	13367.7	13415.7	13911.5	14082.2	14002.2	13826.2	13746.3
55°	14450.1	14940.6	15367.2	15388.5	15404.5	15399.2	15527.2	15697.8	15127.3	14844.7	14556.7
57.5°	14252.8	15180.6	16641.6	17633.4	17926.6	18081.3	18038.6	17249.5	15900.4	14972.6	15068.6
60°	12845.1	14359.4	16716.3	19899.5	22032.4	21819.1	21040.6	17921.3	15473.9	13906.2	13708.9
62.5°	10248.4	12072.0	15463.2	20539.4	26415.4	26351.4	22277.7	16369.7	12893.1	10909.6	10786.9
64°	7720.9	9640.5	13794.2	20374.1	27951.1	28015.0	21963.1	14460.8	10088.4	7720.9	7534.3
65°	5908.0	7688.9	12157.3	20032.8	27620.5	27657.8	21088.6	12487.9	7667.6	5481.4	5278.8
67.5°	2351.5	3273.9	6595.9	15191.3	23717.3	23616.0	15047.3	6041.3	2932.7	1908.9	1871.6
70°	1002.4	1247.7	2314.1	7198.4	15879.1	15585.8	6478.5	1962.2	1087.8	911.8	906.5
72.5°	687.8	762.5	991.8	2223.5	6601.2	6446.6	1844.9	911.8	741.2	682.5	682.5
75°	554.5	607.9	719.8	933.1	1748.9	1685.0	869.1	671.8	591.9	549.2	543.9
77.5°	431.9	485.2	565.2	645.2	799.8	794.5	581.2	506.6	458.6	426.6	415.9
80°	341.3	394.6	447.9	458.6	522.5	511.9	394.6	399.9	373.2	309.3	303.9
82.5°	234.6	319.9	357.3	325.3	309.3	309.3	282.6	282.6	261.3	192.0	176.0
85°	144.0	213.3	223.9	192.0	144.0	144.0	154.6	149.3	138.6	101.3	96.0
87.5°	74.6	101.3	90.6	74.6	48.0	48.0	42.7	32.0	32.0	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)