

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: P478960

Luminaire Tested: **IFLD-M-SA4E-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478960
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

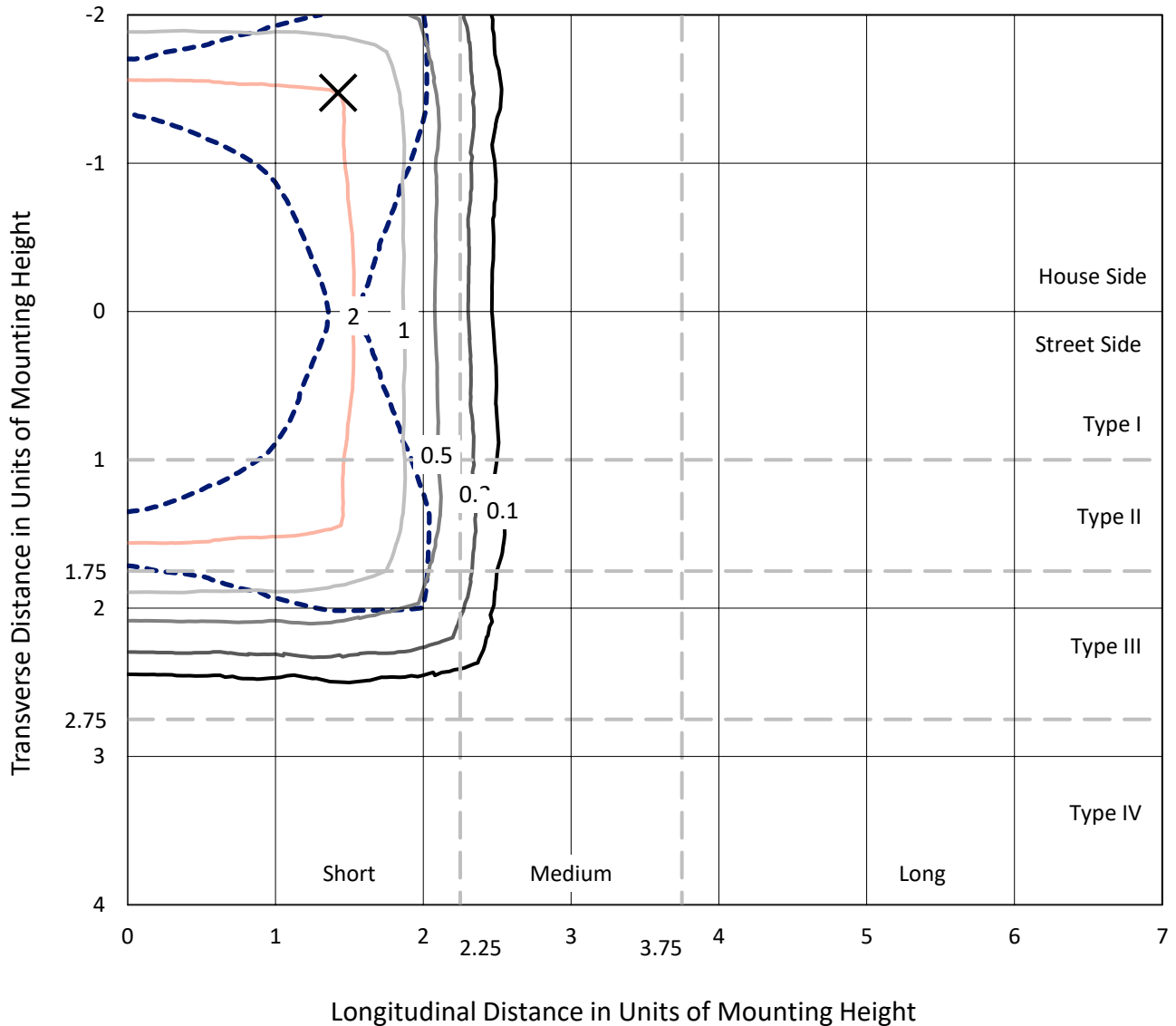
Lumens per Lamp: N/A
Luminaire Lumens: 36109.5 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 314.8
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

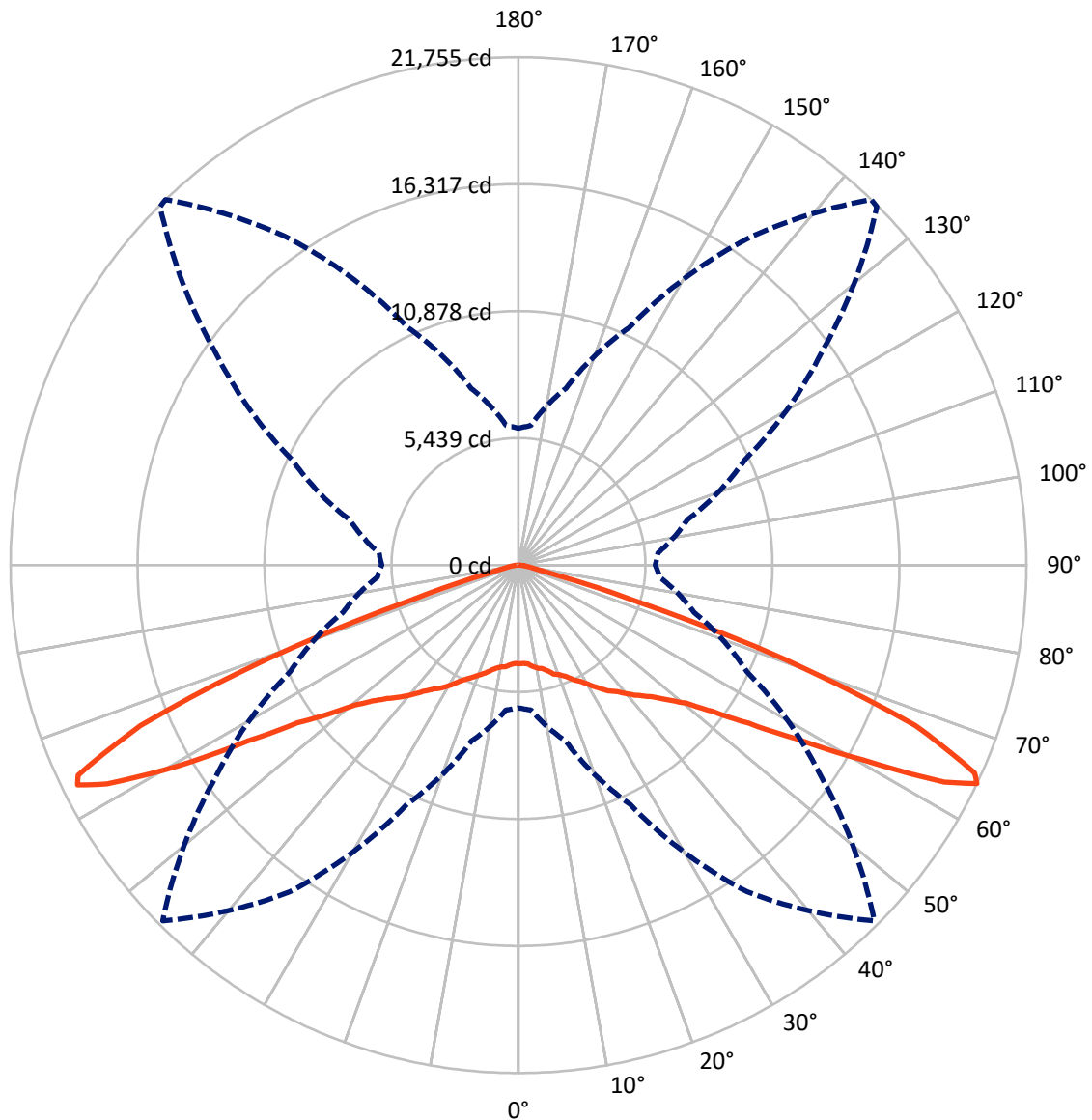
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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	18072.0	0.0	18072.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18037.5	0.0	18037.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36109.5	0.0	36109.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.4	1.2
10°-20°	1338.8	3.7
20°-30°	2516.2	7.0
30°-40°	4149.7	11.5
40°-50°	6489.8	18.0
50°-60°	10486.0	29.0
60°-70°	9442.0	26.1
70°-80°	1118.5	3.1
80°-90°	153.1	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°	36109.5	100.0
0°-180°	36109.5	100.0

Coefficient of Utilization



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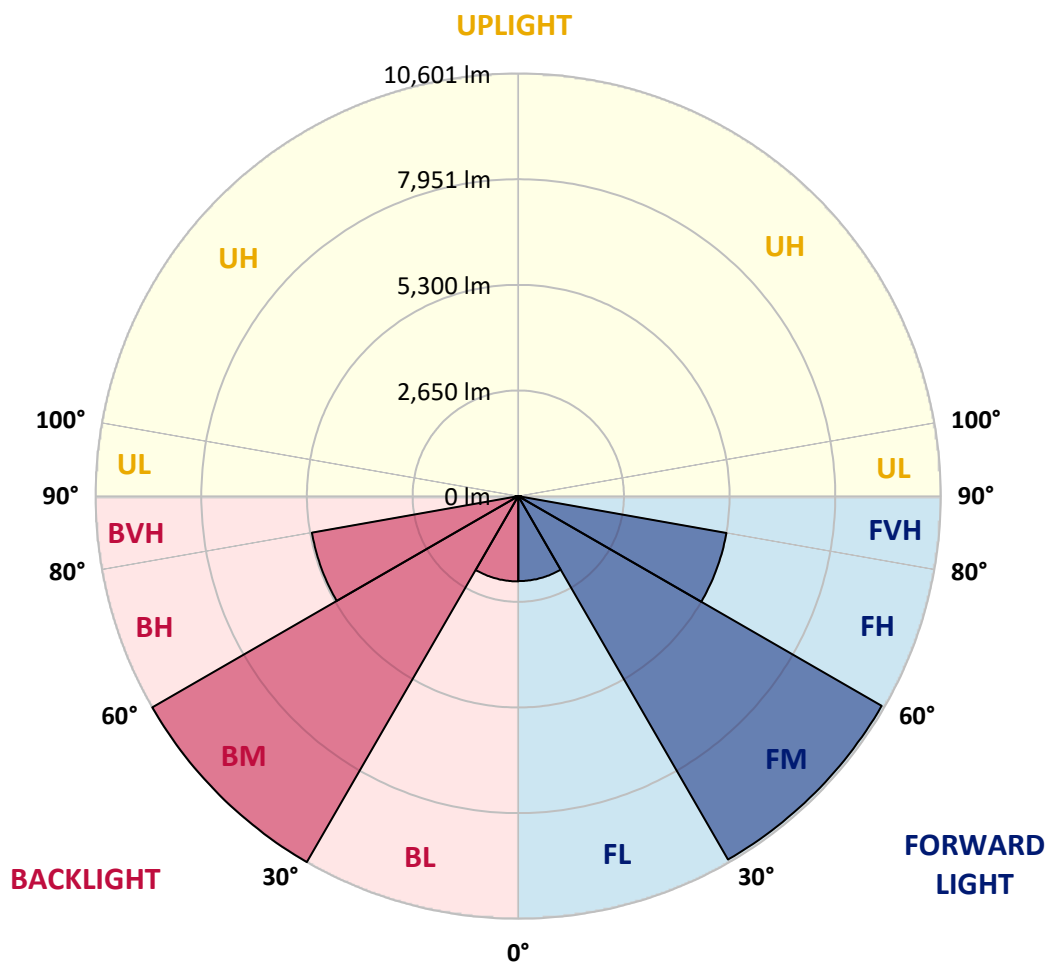
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2131.1	5.9			
FM (30°-60°)	10524.8	29.1			
FH (60°-80°)	5303.1	14.7			G3/7500
FVH (80°-90°)	78.5	0.2			G1/100
BL (0°-30°)	2139.3	5.9	B3/2500		
BM (30°-60°)	10600.7	29.4	B5		
BH (60°-80°)	5257.3	14.6	B5		G3/7500
BVH (80°-90°)	74.6	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°	4227.7	4227.7	4227.7	4227.7	4227.7	4227.7	4227.7	4227.7	4227.7	4227.7	4227.7
2.5°	4178.0	4186.3	4260.8	4231.8	4256.7	4211.1	4244.2	4314.6	4231.8	4293.9	4314.6
5°	4223.5	4236.0	4236.0	4264.9	4281.5	4273.2	4293.9	4264.9	4343.6	4310.5	4360.2
7.5°	4389.2	4368.5	4335.3	4360.2	4364.3	4385.0	4405.7	4443.0	4430.6	4401.6	4451.3
10°	4418.2	4401.6	4451.3	4455.4	4434.7	4418.2	4438.9	4438.9	4476.1	4484.4	4484.4
12.5°	4467.8	4484.4	4480.3	4513.4	4517.5	4505.1	4538.2	4600.3	4583.8	4596.2	4567.2
15°	4658.3	4637.6	4633.5	4666.6	4720.4	4641.8	4699.7	4695.6	4679.0	4703.9	4637.6
17.5°	4823.9	4757.7	4786.7	4840.5	4819.8	4836.4	4910.9	4844.6	4861.2	4832.2	4811.5
20°	4968.9	4915.0	4919.2	4939.9	4939.9	4989.6	5018.6	4993.7	4977.2	4973.0	4981.3
22.5°	5130.4	5068.2	5072.4	5159.3	5188.3	5171.8	5151.1	5192.5	5200.7	5167.6	5204.9
25°	5250.4	5316.7	5337.4	5378.8	5316.7	5362.2	5345.7	5424.3	5474.0	5407.8	5453.3
27.5°	5565.1	5536.1	5590.0	5585.8	5635.5	5590.0	5619.0	5643.8	5664.5	5668.7	5647.9
30°	5846.7	5859.1	5805.3	5950.2	5834.3	5908.8	5958.5	5970.9	5995.8	5995.8	5933.7
32.5°	6144.8	6120.0	6206.9	6173.8	6153.1	6211.1	6157.3	6327.0	6227.6	6285.6	6215.2
35°	6480.2	6480.2	6513.4	6604.5	6480.2	6443.0	6542.3	6612.7	6612.7	6509.2	6534.1
37.5°	6857.0	6823.9	6865.3	6981.3	6886.0	6761.8	6944.0	6973.0	6952.3	6923.3	6873.6
40°	7122.0	7113.8	7196.6	7349.8	7213.1	7188.3	7221.4	7300.1	7324.9	7353.9	7287.7
42.5°	7569.2	7606.5	7846.7	7809.4	7697.6	7610.7	7602.4	7896.4	7826.0	7751.4	7714.2
45°	8231.8	8198.6	8322.9	8327.0	8182.1	7991.6	8033.0	8302.2	8422.2	8256.6	8318.7
47.5°	8757.6	8774.2	8861.1	9039.2	8703.8	8505.0	8658.3	9093.0	9055.8	8993.7	9051.6
50°	9461.6	9536.1	9809.4	9747.3	9449.1	9204.8	9540.2	9950.2	9995.7	9768.0	9726.6
52.5°	10434.6	10550.6	10699.6	10749.3	10463.6	10376.7	10397.4	10906.7	10794.9	10575.4	10434.6
55°	11287.6	11341.4	11614.7	12024.7	12004.0	11585.7	11825.9	12016.4	11560.9	11109.6	11146.8
57.5°	11652.0	11676.8	12438.7	13258.6	13747.2	13842.4	13569.2	12927.3	11842.5	10972.9	10919.1
60°	10745.2	10981.2	11900.4	13751.3	15983.2	17084.6	15266.9	13030.9	11184.1	10128.2	10049.5
62.5°	8587.9	8600.3	9966.7	12774.1	17374.5	20260.6	15916.9	12057.8	9428.4	8231.8	7917.1
64°	6115.8	6231.8	7801.1	11308.3	17084.6	21552.5	15838.3	10786.6	7772.1	6074.4	5855.0
65°	4389.2	4550.7	6066.2	9817.7	16405.5	21399.3	15602.2	9693.4	6285.6	4637.6	4414.0
67.5°	1614.9	1681.1	2380.9	4910.9	11780.4	18235.7	12364.2	5329.1	2761.9	1966.8	1768.1
70°	749.5	753.6	882.0	1623.2	5151.1	12194.4	5900.5	2000.0	1039.3	824.0	766.0
72.5°	550.7	563.1	617.0	749.5	1515.5	5163.5	1937.9	819.9	608.7	538.3	525.9
75°	447.2	455.5	472.0	542.4	699.8	1383.0	786.7	567.3	484.5	434.8	418.2
77.5°	343.7	343.7	380.9	414.1	463.8	646.0	521.7	451.3	393.4	343.7	331.3
80°	248.4	252.6	298.1	323.0	314.7	426.5	376.8	372.7	323.0	269.1	248.4
82.5°	144.9	157.3	215.3	231.9	223.6	252.6	273.3	289.9	252.6	186.3	169.8
85°	82.8	87.0	124.2	128.4	128.4	120.1	157.3	173.9	169.8	115.9	103.5
87.5°	24.8	24.8	33.1	33.1	37.3	41.4	62.1	74.5	82.8	58.0	53.8
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°	4227.7	4227.7	4227.7	4227.7	4227.7	4227.7	4227.7	4227.7	4227.7	4227.7	4227.7
2.5°	4293.9	4231.8	4236.0	4252.5	4198.7	4219.4	4281.5	4236.0	4223.5	4198.7	4186.3
5°	4273.2	4339.5	4314.6	4322.9	4310.5	4252.5	4244.2	4281.5	4302.2	4264.9	4339.5
7.5°	4418.2	4389.2	4356.0	4368.5	4339.5	4389.2	4422.3	4347.8	4385.0	4364.3	4322.9
10°	4501.0	4447.1	4472.0	4463.7	4443.0	4492.7	4459.6	4451.3	4418.2	4372.6	4438.9
12.5°	4530.0	4592.1	4633.5	4563.1	4575.5	4550.7	4530.0	4530.0	4492.7	4480.3	4492.7
15°	4658.3	4712.1	4695.6	4749.4	4679.0	4703.9	4728.7	4666.6	4699.7	4608.6	4679.0
17.5°	4894.3	4848.8	4906.8	4836.4	4861.2	4910.9	4832.2	4832.2	4857.1	4807.4	4745.3
20°	5043.4	5022.7	5002.0	5006.1	4964.7	5010.3	4985.4	4973.0	4935.7	4952.3	4985.4
22.5°	5184.2	5155.2	5163.5	5175.9	5204.9	5184.2	5171.8	5184.2	5093.1	5175.9	5060.0
25°	5358.1	5436.8	5411.9	5465.8	5382.9	5436.8	5432.6	5354.0	5403.6	5370.5	5345.7
27.5°	5647.9	5606.5	5643.8	5577.6	5635.5	5639.7	5590.0	5722.5	5664.5	5656.2	5639.7
30°	6020.6	5991.6	5966.8	5929.5	5975.1	5937.8	5979.2	5991.6	5937.8	5896.4	5817.7
32.5°	6231.8	6310.5	6339.4	6248.4	6252.5	6273.2	6235.9	6198.7	6231.8	6244.2	6231.8
35°	6529.9	6604.5	6621.0	6550.6	6513.4	6616.9	6542.3	6666.6	6558.9	6563.0	6451.2
37.5°	6877.7	6898.4	7039.2	6960.6	6927.4	6877.7	7014.4	6997.8	7022.7	6823.9	6923.3
40°	7271.1	7345.6	7424.3	7225.6	7221.4	7267.0	7258.7	7353.9	7308.4	7279.4	7209.0
42.5°	7701.7	7859.1	7871.5	7739.0	7656.2	7647.9	7689.3	7900.5	7904.6	7714.2	7631.4
45°	8273.2	8447.1	8401.5	8144.8	8053.7	8041.3	8244.2	8335.3	8414.0	8339.4	8269.0
47.5°	8985.4	9101.3	9068.2	8832.2	8538.2	8621.0	8819.7	9105.5	9022.6	8923.3	8840.4
50°	9747.3	9883.9	9813.5	9577.5	9295.9	9295.9	9540.2	9904.6	9879.8	9685.2	9610.6
52.5°	10592.0	10790.7	10952.2	10616.8	10380.8	10418.1	10803.1	10935.7	10873.5	10736.9	10674.8
55°	11221.4	11602.3	11933.6	11950.1	11962.6	11958.4	12057.8	12190.3	11747.2	11527.8	11304.2
57.5°	11068.2	11788.6	12923.2	13693.4	13921.1	14041.2	14008.1	13395.2	12347.6	11627.2	11701.7
60°	9975.0	11151.0	12981.2	15453.2	17109.5	16943.8	16339.3	13917.0	12016.4	10799.0	10645.8
62.5°	7958.5	9374.6	12008.1	15950.1	20513.1	20463.5	17299.9	12712.0	10012.3	8471.9	8376.7
64°	5995.8	7486.4	10712.1	15821.7	21705.7	21755.4	17055.6	11229.6	7834.3	5995.8	5850.8
65°	4587.9	5970.9	9440.9	15556.7	21449.0	21477.9	16376.6	9697.6	5954.4	4256.7	4099.3
67.5°	1826.1	2542.4	5122.1	11796.9	18417.9	18339.3	11685.1	4691.4	2277.4	1482.4	1453.4
70°	778.5	968.9	1797.1	5590.0	12331.1	12103.3	5031.0	1523.8	844.7	708.1	703.9
72.5°	534.2	592.1	770.2	1726.7	5126.2	5006.1	1432.7	708.1	575.6	530.0	530.0
75°	430.6	472.0	559.0	724.6	1358.2	1308.5	674.9	521.7	459.6	426.5	422.4
77.5°	335.4	376.8	438.9	501.0	621.1	617.0	451.3	393.4	356.1	331.3	323.0
80°	265.0	306.4	347.8	356.1	405.8	397.5	306.4	310.6	289.9	240.2	236.0
82.5°	182.2	248.4	277.4	252.6	240.2	240.2	219.5	219.5	202.9	149.1	136.6
85°	111.8	165.6	173.9	149.1	111.8	111.8	120.1	115.9	107.7	78.7	74.5
87.5°	58.0	78.7	70.4	58.0	37.3	37.3	33.1	24.8	24.8	20.7	20.7
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)