

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: P479305

Luminaire Tested: **IFLD-S-SA6D-735-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479305
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

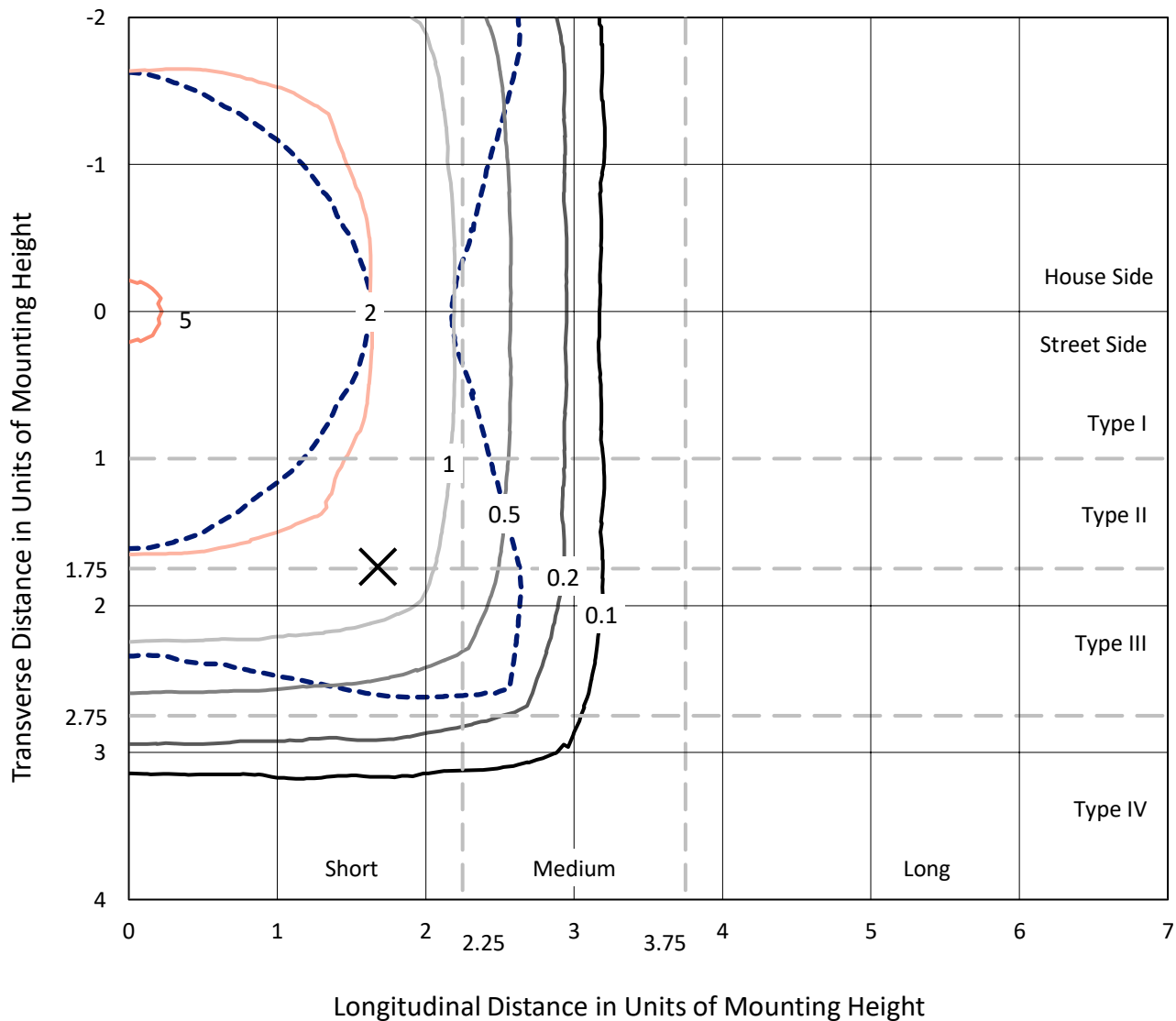
Lumens per Lamp: N/A
Luminaire Lumens: 45519.8 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

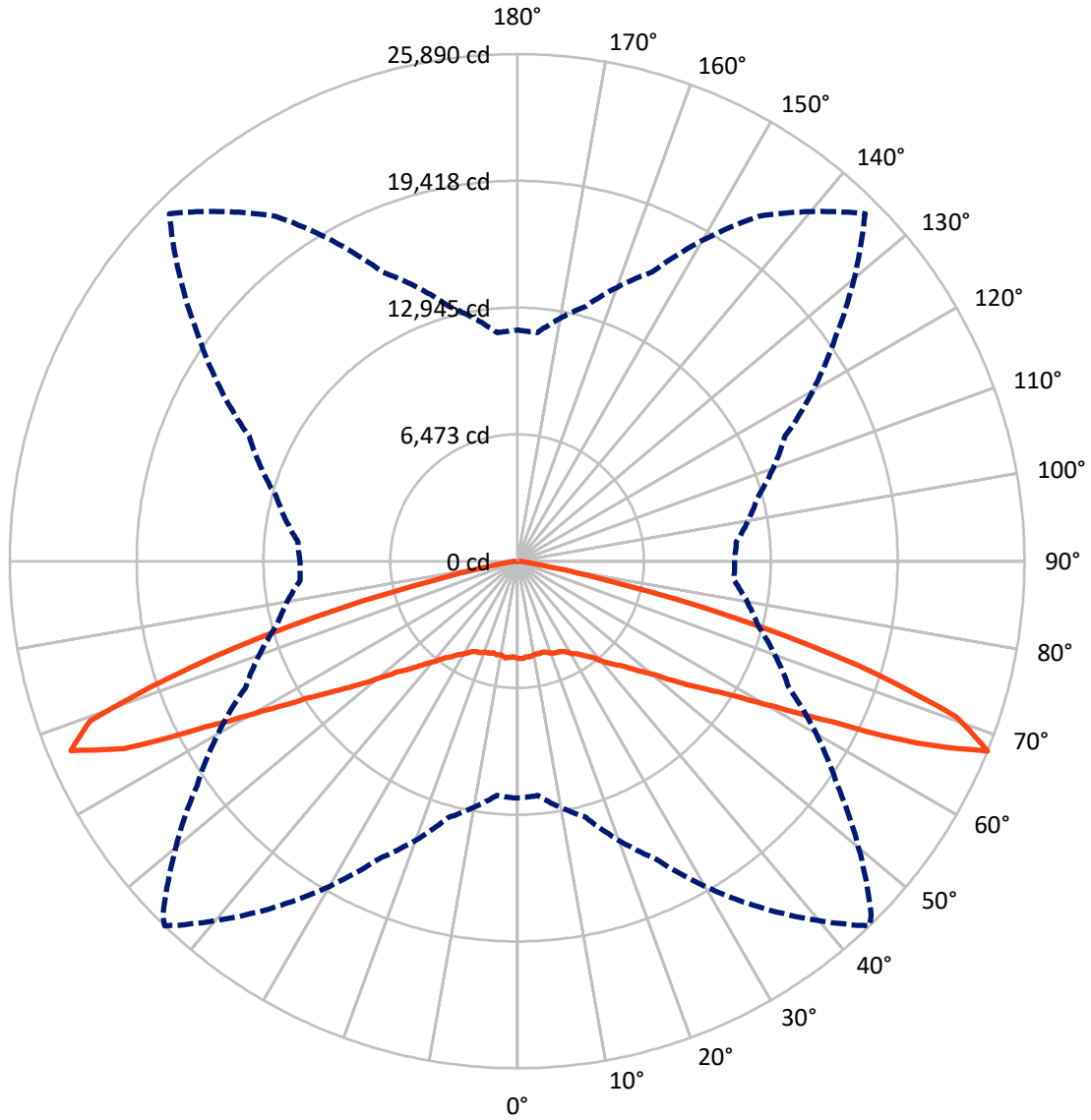
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22701.6	0.0	22701.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	22818.2	0.0	22818.2
	% Fixture	50.1	0.0	50.1
Total	Lumens	45519.8	0.0	45519.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.5	1.0
10°-20°	1374.6	3.0
20°-30°	2337.6	5.1
30°-40°	3706.4	8.1
40°-50°	6043.6	13.3
50°-60°	10321.6	22.7
60°-70°	15699.1	34.5
70°-80°	5291.6	11.6
80°-90°	274.7	0.6
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°	45519.8	100.0
0°-180°	45519.8	100.0

Coefficient of Utilization

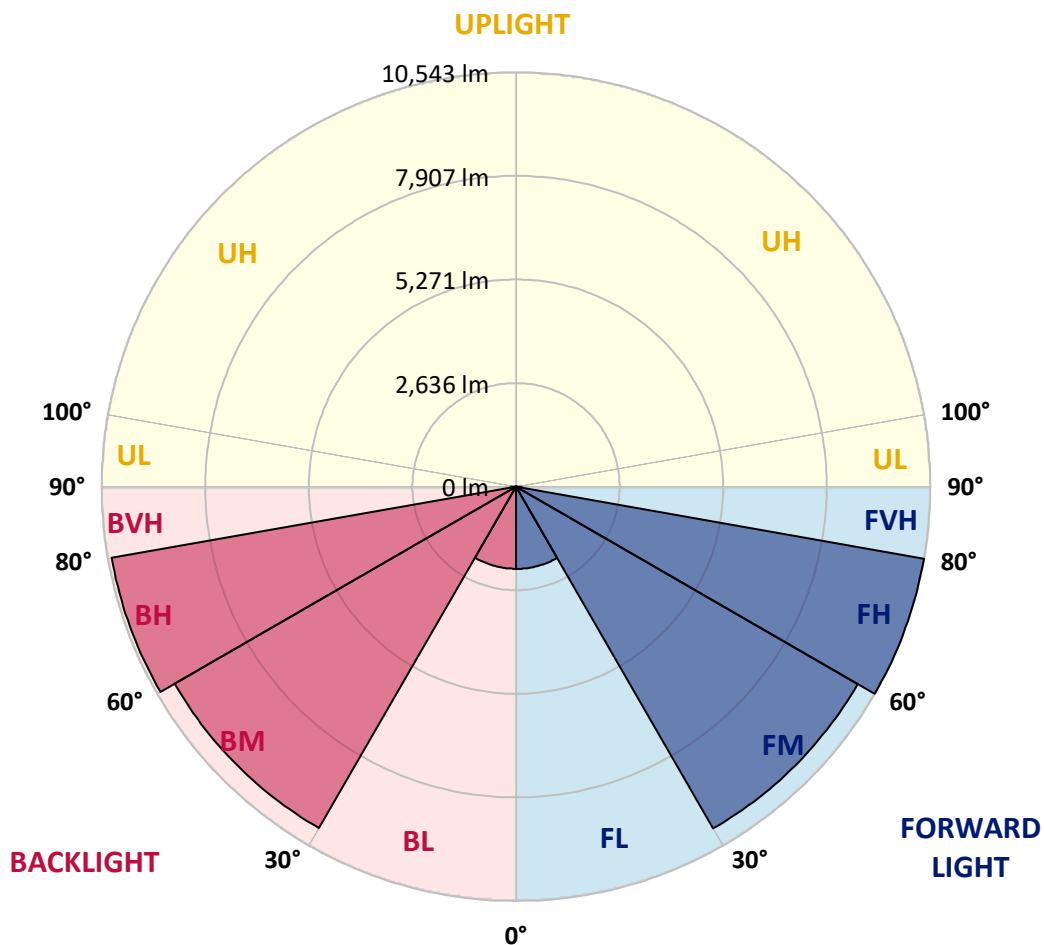


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2093.5	4.6			
FM (30°-60°)	10041.2	22.1			
FH (60°-80°)	10542.9	23.2			G4/12000
FVH (80°-90°)	140.5	0.3			G2/225
BL (0°-30°)	2089.2	4.6	B3/2500		
BM (30°-60°)	10030.4	22.0	B5		
BH (60°-80°)	10447.8	23.0	B5		G4/12000
BVH (80°-90°)	134.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2
2.5°	4857.9	4915.1	4956.7	4951.5	4967.1	4982.6	4961.9	4993.0	4972.2	5008.6	5029.4
5°	4951.5	4935.9	4941.1	4909.9	4982.6	4899.5	4899.5	4941.1	4993.0	4930.7	4967.1
7.5°	4894.3	4883.9	4857.9	4904.7	4920.3	4920.3	4961.9	4883.9	4972.2	4993.0	4998.2
10°	4832.0	4774.8	4852.7	4899.5	4909.9	4826.8	4863.1	4883.9	4857.9	4883.9	4899.5
12.5°	4780.0	4811.2	4811.2	4811.2	4795.6	4852.7	4889.1	4883.9	4832.0	4878.7	4795.6
15°	4774.8	4759.2	4806.0	4847.6	4821.6	4832.0	4847.6	4894.3	4795.6	4816.4	4816.4
17.5°	4769.6	4790.4	4806.0	4800.8	4889.1	4889.1	4873.5	4842.4	4920.3	4878.7	4821.6
20°	4790.4	4774.8	4816.4	4832.0	4894.3	5019.0	4972.2	4946.3	4904.7	4852.7	4852.7
22.5°	4816.4	4806.0	4863.1	4930.7	5050.2	5081.4	5076.2	5045.0	4972.2	4909.9	4899.5
25°	4909.9	4816.4	4878.7	5008.6	5050.2	5112.5	5154.1	5112.5	5013.8	5029.4	4935.9
27.5°	5050.2	5034.6	5117.7	5206.1	5169.7	5226.8	5190.5	5221.6	5226.8	5148.9	5055.4
30°	5216.4	5169.7	5221.6	5393.1	5408.7	5471.0	5408.7	5325.6	5351.5	5284.0	5237.2
32.5°	5455.4	5439.9	5538.6	5652.9	5673.7	5642.5	5611.3	5658.1	5549.0	5497.0	5413.9
35°	5611.3	5678.9	5798.4	5886.7	5954.2	5923.1	5938.6	5891.9	5917.9	5808.7	5772.4
37.5°	6073.7	6047.7	6073.7	6224.4	6240.0	6224.4	6240.0	6291.9	6255.6	6162.1	6068.5
40°	6510.2	6468.6	6530.9	6702.4	6692.0	6744.0	6640.1	6697.2	6697.2	6520.6	6484.2
42.5°	6837.5	6977.8	7050.5	7190.8	7242.8	7196.0	7175.2	7185.6	7299.9	7092.1	7014.1
45°	7512.9	7507.7	7725.9	7803.9	7658.4	7648.0	7606.4	7731.1	7809.1	7689.6	7658.4
47.5°	8245.5	8281.9	8406.6	8437.8	8526.1	8365.0	8365.0	8380.6	8656.0	8375.4	8229.9
50°	8905.4	8952.1	9201.5	9445.7	9279.4	9108.0	9175.5	9258.7	9409.3	9144.4	9019.7
52.5°	9705.5	9960.1	10126.3	10256.2	10375.7	10256.2	10100.4	10193.9	10490.0	10136.7	9980.9
55°	10858.9	11061.6	11217.4	11456.4	11555.1	11394.1	11378.5	11368.1	11534.4	11160.3	10947.3
57.5°	12147.5	12064.3	12313.7	12682.6	13041.1	12885.2	12838.5	12848.9	12890.4	12360.5	12199.4
60°	13747.7	13841.2	14137.4	14459.5	14838.8	15057.0	14750.5	14573.8	14610.2	13888.0	13638.6
62.5°	14662.2	14870.0	15540.2	16646.9	17410.7	18091.3	18138.0	16989.8	16220.9	14818.0	13758.1
65°	14220.5	14189.3	15451.9	17499.0	20393.0	22372.5	22076.4	19291.5	16605.3	14376.4	12952.8
67.5°	12095.5	12012.4	13539.9	16787.2	21567.2	25890.0	25552.3	19940.9	15306.4	12719.0	11108.3
70°	7793.5	7772.7	9430.1	12796.9	19255.1	23770.1	23894.8	18112.1	12459.2	9315.8	7720.8
72.5°	2831.6	3003.1	3964.3	6879.1	13077.5	18184.8	18262.7	13410.0	7164.8	4307.2	3174.5
75°	1044.3	1075.5	1252.2	2234.1	5959.4	11165.5	11456.4	6505.0	2545.9	1402.8	1143.0
77.5°	602.7	607.9	670.2	831.3	1766.5	4359.2	4535.8	1974.4	987.2	748.2	691.0
80°	410.5	405.3	472.8	540.3	706.6	1236.6	1314.5	826.1	623.5	519.6	436.4
82.5°	239.0	254.6	348.1	384.5	431.2	545.5	555.9	514.4	467.6	384.5	285.8
85°	145.5	119.5	192.2	213.0	249.4	244.2	244.2	280.6	301.3	270.2	161.1
87.5°	36.4	36.4	46.8	52.0	67.5	52.0	57.2	109.1	145.5	135.1	83.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2	4972.2
2.5°	4982.6	4967.1	4977.4	5034.6	4998.2	4889.1	4915.1	4972.2	4925.5	4899.5	4894.3
5°	4961.9	4993.0	4956.7	4967.1	5003.4	4915.1	4930.7	5003.4	4972.2	4982.6	4925.5
7.5°	4967.1	4982.6	4951.5	4904.7	4904.7	4977.4	4935.9	4946.3	4899.5	4977.4	4873.5
10°	4935.9	4894.3	4857.9	4883.9	4873.5	4852.7	4837.2	4868.3	4821.6	4889.1	4816.4
12.5°	4842.4	4852.7	4842.4	4832.0	4852.7	4904.7	4821.6	4832.0	4759.2	4769.6	4806.0
15°	4806.0	4837.2	4826.8	4883.9	4909.9	4832.0	4894.3	4832.0	4774.8	4743.6	4800.8
17.5°	4821.6	4868.3	4852.7	4894.3	4847.6	4904.7	4915.1	4889.1	4821.6	4795.6	4821.6
20°	4837.2	4821.6	4842.4	4915.1	4982.6	4925.5	4925.5	4909.9	4847.6	4811.2	4811.2
22.5°	4873.5	4847.6	4878.7	4935.9	4956.7	5045.0	4967.1	4930.7	4826.8	4733.2	4821.6
25°	4946.3	4961.9	4982.6	4961.9	5076.2	5065.8	5055.4	5029.4	4868.3	4873.5	4857.9
27.5°	5086.6	4998.2	5024.2	5148.9	5164.5	5206.1	5154.1	5200.9	5029.4	5034.6	4930.7
30°	5258.0	5164.5	5247.6	5356.7	5351.5	5429.5	5403.5	5413.9	5294.4	5226.8	5086.6
32.5°	5445.1	5434.7	5486.6	5554.2	5580.1	5621.7	5616.5	5616.5	5543.8	5367.1	5393.1
35°	5652.9	5725.6	5788.0	5860.7	5871.1	5923.1	5850.3	5860.7	5788.0	5658.1	5699.6
37.5°	6063.3	6058.1	6125.7	6214.0	6224.4	6182.8	6240.0	6214.0	6115.3	6027.0	5959.4
40°	6541.3	6437.4	6499.8	6707.6	6723.2	6650.4	6645.2	6640.1	6567.3	6375.1	6333.5
42.5°	6957.0	7092.1	7081.7	7149.2	7102.5	7066.1	7196.0	7123.2	7066.1	6863.5	6827.1
45°	7492.1	7533.7	7668.8	7887.0	7663.6	7663.6	7751.9	7694.8	7663.6	7512.9	7372.6
47.5°	8157.2	8193.6	8463.7	8479.3	8333.8	8235.1	8510.5	8520.9	8391.0	8276.7	8105.2
50°	8936.5	8952.1	9196.3	9445.7	9284.6	9097.6	9378.2	9487.3	9196.3	9040.4	8827.4
52.5°	9793.8	9747.1	9949.7	10417.3	10261.4	10204.3	10505.6	10531.6	10136.7	9892.5	9949.7
55°	10781.0	10718.6	11269.4	11586.3	11487.6	11383.7	11518.8	11581.1	11264.2	10864.1	11004.4
57.5°	12059.1	12090.3	12365.7	12677.4	12838.5	12864.5	12926.8	12864.5	12542.3	12137.1	12007.2
60°	13337.3	13430.8	13965.9	14553.0	14605.0	15062.2	14979.1	14667.3	14210.1	13633.4	13659.4
62.5°	13810.1	13732.1	14594.6	16028.6	17249.6	18086.1	17717.2	16610.5	15550.6	14501.1	14579.0
65°	12859.3	13051.5	14225.7	16470.2	19120.0	22429.7	20465.7	17405.5	15264.8	13908.8	13758.1
67.5°	11082.3	11227.8	12719.0	15088.2	19790.3	25100.2	21504.8	16283.2	13462.0	11705.8	11799.3
70°	7720.8	7793.5	9253.5	12360.5	17945.8	23687.0	19400.6	12506.0	9295.0	7409.0	7512.9
72.5°	3107.0	3283.7	4244.9	7445.4	13248.9	17997.8	13061.9	6562.1	3855.2	2868.0	2603.0
75°	1148.2	1153.4	1356.1	2561.5	6291.9	11311.0	5891.9	2109.4	1231.4	1008.0	961.2
77.5°	665.0	659.8	706.6	924.8	1823.7	4416.3	1673.0	826.1	670.2	602.7	576.7
80°	415.7	410.5	483.2	613.1	800.1	1210.6	706.6	514.4	452.0	389.7	389.7
82.5°	265.0	270.2	379.3	452.0	488.4	535.2	410.5	363.7	337.7	223.4	218.2
85°	171.5	155.9	265.0	301.3	270.2	239.0	228.6	192.2	176.7	109.1	119.5
87.5°	77.9	83.1	135.1	150.7	98.7	57.2	57.2	41.6	41.6	26.0	26.0
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)