

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: P479436

Luminaire Tested: **IFLD-L-SA8C-760-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479436
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-760-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

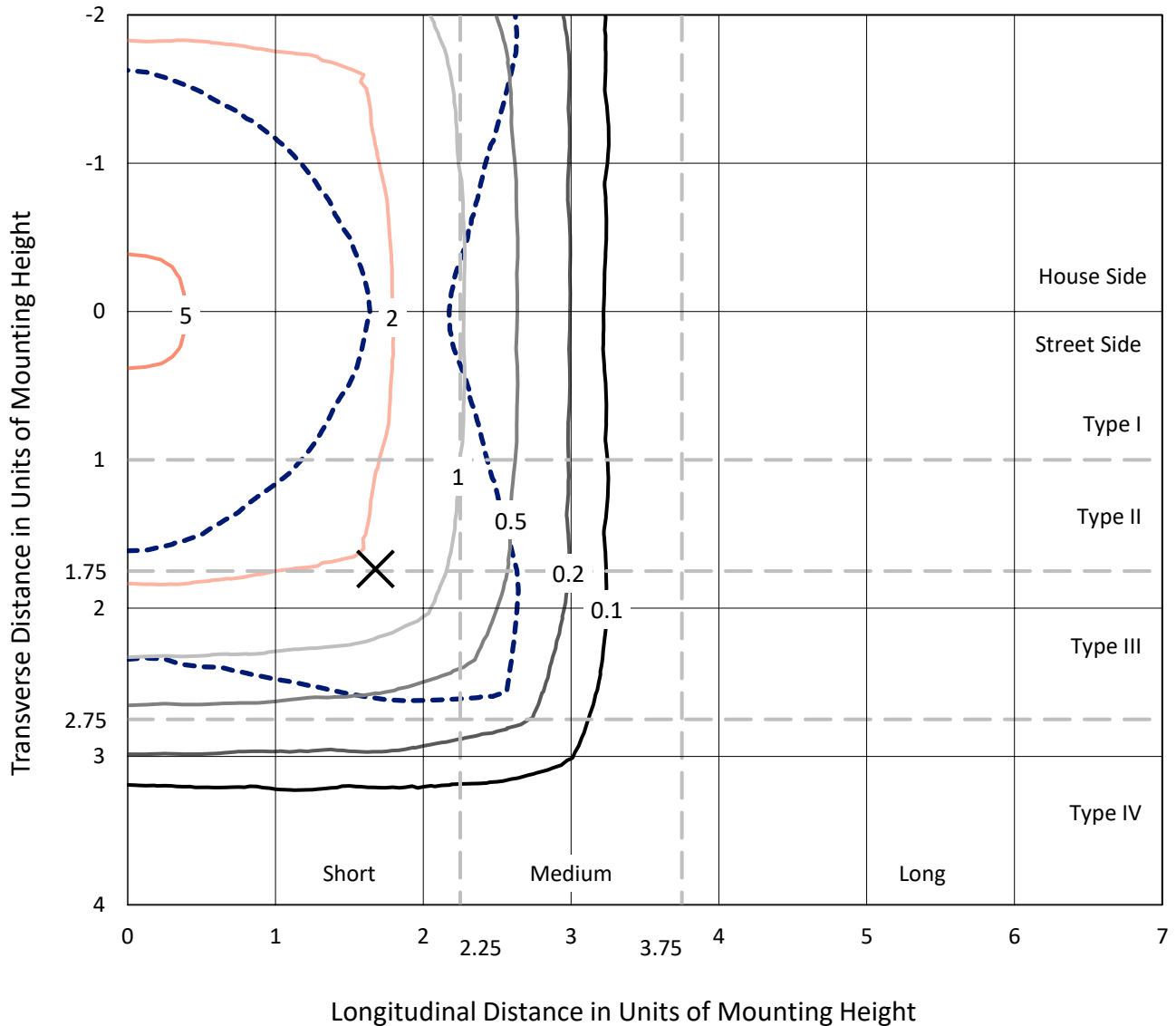
Lumens per Lamp: N/A
Luminaire Lumens: 52311.8 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 420.3
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

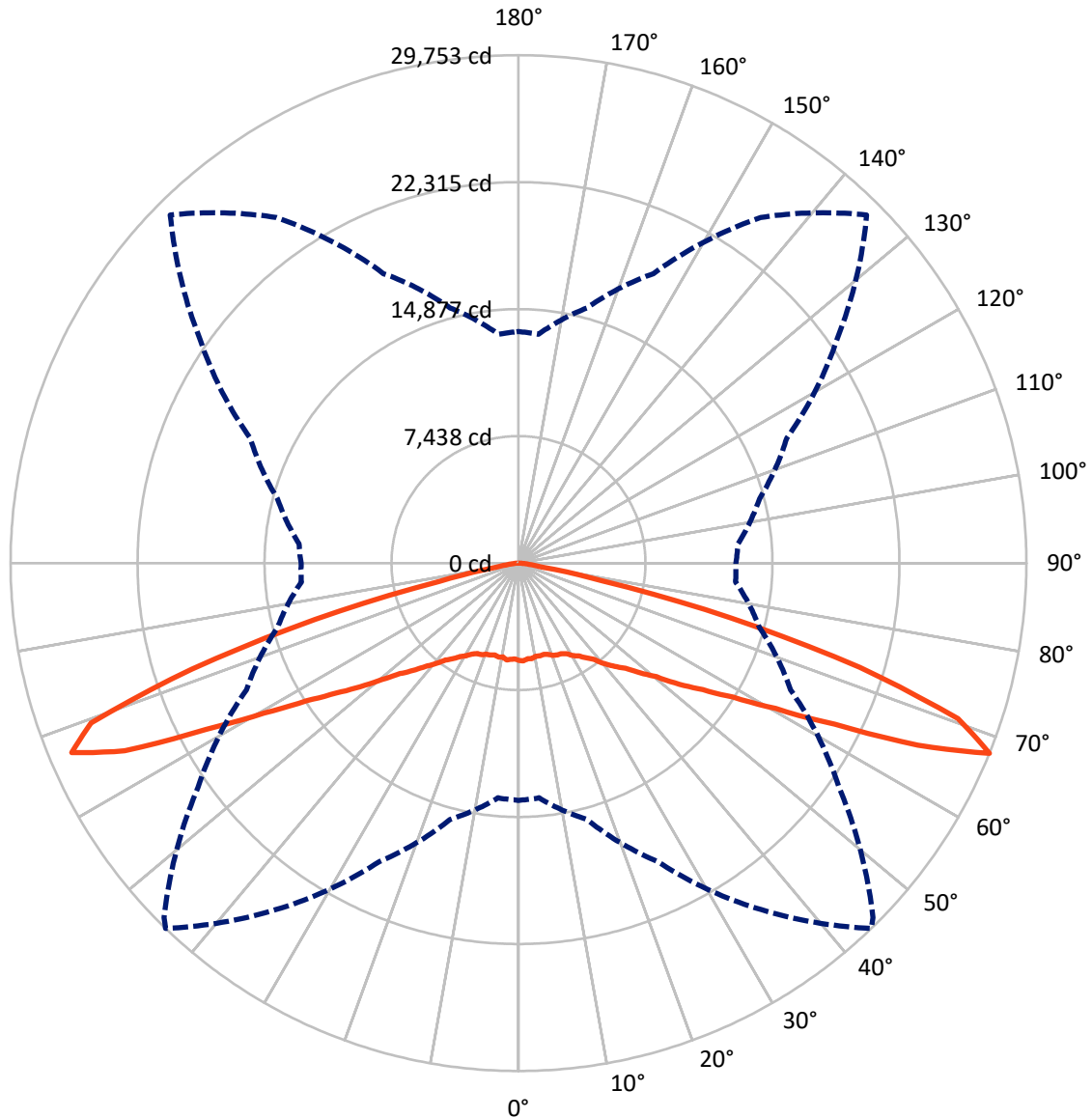
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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	26088.9	0.0	26088.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	26222.9	0.0	26222.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	52311.8	0.0	52311.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.7	1.0
10°-20°	1579.7	3.0
20°-30°	2686.4	5.1
30°-40°	4259.4	8.1
40°-50°	6945.4	13.3
50°-60°	11861.7	22.7
60°-70°	18041.6	34.5
70°-80°	6081.1	11.6
80°-90°	315.7	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°	52311.8	100.0
0°-180°	52311.8	100.0



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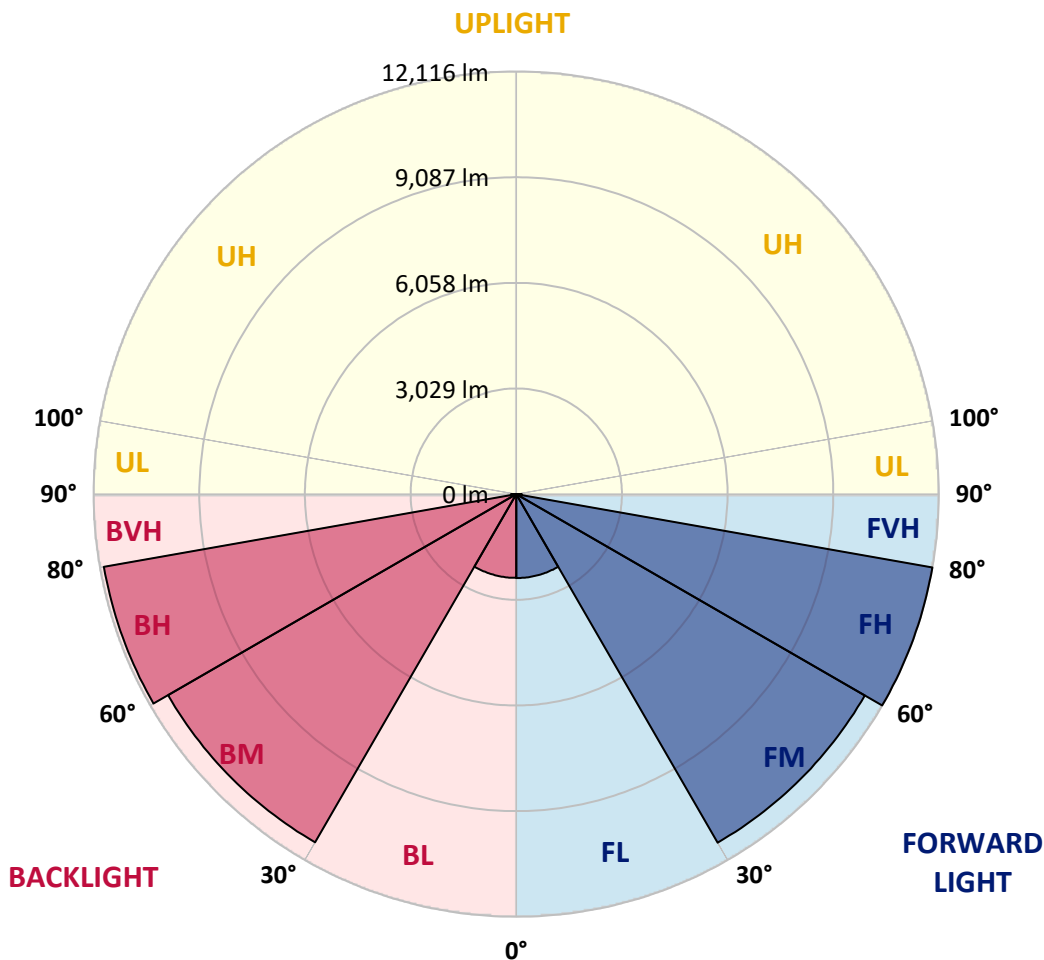
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2405.9	4.6			
FM (30°-60°)	11539.5	22.1			
FH (60°-80°)	12116.0	23.2			G5
FVH (80°-90°)	161.5	0.3			G2/225
BL (0°-30°)	2401.0	4.6	B3/2500		
BM (30°-60°)	11527.0	22.0	B5		
BH (60°-80°)	12006.7	23.0	B5		G5
BVH (80°-90°)	154.2	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5714.2	5714.2	5714.2	5714.2	5714.2	5714.2	5714.2	5714.2	5714.2	5714.2	5714.2
2.5°	5582.8	5648.5	5696.2	5690.3	5708.2	5726.1	5702.2	5738.0	5714.2	5756.0	5779.8
5°	5690.3	5672.4	5678.3	5642.5	5726.1	5630.6	5630.6	5678.3	5738.0	5666.4	5708.2
7.5°	5624.6	5612.7	5582.8	5636.5	5654.5	5654.5	5702.2	5612.7	5714.2	5738.0	5744.0
10°	5552.9	5487.3	5576.8	5630.6	5642.5	5547.0	5588.8	5612.7	5582.8	5612.7	5630.6
12.5°	5493.2	5529.1	5529.1	5529.1	5511.1	5576.8	5618.6	5612.7	5552.9	5606.7	5511.1
15°	5487.3	5469.4	5523.1	5570.9	5541.0	5552.9	5570.9	5624.6	5511.1	5535.0	5535.0
17.5°	5481.3	5505.2	5523.1	5517.1	5618.6	5618.6	5600.7	5564.9	5654.5	5606.7	5541.0
20°	5505.2	5487.3	5535.0	5552.9	5624.6	5767.9	5714.2	5684.3	5636.5	5576.8	5576.8
22.5°	5535.0	5523.1	5588.8	5666.4	5803.7	5839.5	5833.6	5797.8	5714.2	5642.5	5630.6
25°	5642.5	5535.0	5606.7	5756.0	5803.7	5875.4	5923.1	5875.4	5761.9	5779.8	5672.4
27.5°	5803.7	5785.8	5881.3	5982.9	5941.1	6006.7	5964.9	6000.8	6006.7	5917.2	5809.7
30°	5994.8	5941.1	6000.8	6197.8	6215.7	6287.4	6215.7	6120.2	6150.0	6072.4	6018.7
32.5°	6269.5	6251.5	6365.0	6496.3	6520.2	6484.4	6448.6	6502.3	6376.9	6317.2	6221.7
35°	6448.6	6526.2	6663.5	6765.0	6842.7	6806.8	6824.7	6771.0	6800.9	6675.5	6633.7
37.5°	6980.0	6950.1	6980.0	7153.1	7171.1	7153.1	7171.1	7230.8	7189.0	7081.5	6974.0
40°	7481.5	7433.8	7505.4	7702.5	7690.5	7750.2	7630.8	7696.5	7696.5	7493.5	7451.7
42.5°	7857.7	8018.9	8102.5	8263.7	8323.4	8269.7	8245.8	8257.8	8389.1	8150.3	8060.7
45°	8633.9	8628.0	8878.7	8968.3	8801.1	8789.2	8741.4	8884.7	8974.3	8836.9	8801.1
47.5°	9475.8	9517.6	9660.9	9696.8	9798.3	9613.2	9613.2	9631.1	9947.5	9625.1	9457.9
50°	10234.1	10287.9	10574.5	10855.1	10664.0	10467.0	10544.6	10640.2	10813.3	10508.8	10365.5
52.5°	11153.7	11446.2	11637.3	11786.6	11923.9	11786.6	11607.4	11714.9	12055.3	11649.2	11470.1
55°	12479.2	12712.1	12891.2	13165.9	13279.3	13094.2	13076.3	13064.3	13255.4	12825.5	12580.7
57.5°	13960.0	13864.5	14151.1	14575.0	14987.0	14807.9	14754.1	14766.1	14813.8	14204.8	14019.7
60°	15799.0	15906.5	16246.8	16617.0	17052.9	17303.7	16951.4	16748.4	16790.2	15960.2	15673.6
62.5°	16849.9	17088.7	17859.0	19130.8	20008.5	20790.7	20844.4	19524.9	18641.2	17029.0	15811.0
65°	16342.4	16306.6	17757.5	20110.0	23435.8	25710.7	25370.4	22170.0	19083.0	16521.5	14885.5
67.5°	13900.3	13804.7	15560.2	19292.0	24785.2	29753.0	29364.9	22916.3	17590.3	14616.8	12765.8
70°	8956.4	8932.5	10837.2	14706.3	22128.2	27316.9	27460.2	20814.6	14318.2	10705.8	8872.8
72.5°	3254.1	3451.2	4555.8	7905.5	15028.8	20898.2	20987.7	15410.9	8233.9	4949.9	3648.2
75°	1200.2	1236.0	1439.0	2567.5	6848.6	12831.5	13165.9	7475.6	2925.7	1612.1	1313.6
77.5°	692.6	698.6	770.2	955.3	2030.1	5009.6	5212.6	2268.9	1134.5	859.8	794.1
80°	471.7	465.7	543.4	621.0	812.0	1421.1	1510.6	949.4	716.5	597.1	501.6
82.5°	274.7	292.6	400.1	441.8	495.6	626.9	638.9	591.1	537.4	441.8	328.4
85°	167.2	137.3	220.9	244.8	286.6	280.6	280.6	322.4	346.3	310.5	185.1
87.5°	41.8	41.8	53.7	59.7	77.6	59.7	65.7	125.4	167.2	155.2	95.5
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°	5714.2	5714.2	5714.2	5714.2	5714.2	5714.2	5714.2	5714.2	5714.2	5714.2	5714.2
2.5°	5726.1	5708.2	5720.1	5785.8	5744.0	5618.6	5648.5	5714.2	5660.4	5630.6	5624.6
5°	5702.2	5738.0	5696.2	5708.2	5750.0	5648.5	5666.4	5750.0	5714.2	5726.1	5660.4
7.5°	5708.2	5726.1	5690.3	5636.5	5636.5	5720.1	5672.4	5684.3	5630.6	5720.1	5600.7
10°	5672.4	5624.6	5582.8	5612.7	5600.7	5576.8	5558.9	5594.7	5541.0	5618.6	5535.0
12.5°	5564.9	5576.8	5564.9	5552.9	5576.8	5636.5	5541.0	5552.9	5469.4	5481.3	5523.1
15°	5523.1	5558.9	5547.0	5612.7	5642.5	5552.9	5624.6	5552.9	5487.3	5451.4	5517.1
17.5°	5541.0	5594.7	5576.8	5624.6	5570.9	5636.5	5648.5	5618.6	5541.0	5511.1	5541.0
20°	5558.9	5541.0	5564.9	5648.5	5726.1	5660.4	5660.4	5642.5	5570.9	5529.1	5529.1
22.5°	5600.7	5570.9	5606.7	5672.4	5696.2	5797.8	5708.2	5666.4	5547.0	5439.5	5541.0
25°	5684.3	5702.2	5726.1	5702.2	5833.6	5821.6	5809.7	5779.8	5594.7	5600.7	5582.8
27.5°	5845.5	5744.0	5773.9	5917.2	5935.1	5982.9	5923.1	5976.9	5779.8	5785.8	5666.4
30°	6042.6	5935.1	6030.6	6156.0	6150.0	6239.6	6209.7	6221.7	6084.4	6006.7	5845.5
32.5°	6257.5	6245.6	6305.3	6382.9	6412.8	6460.5	6454.6	6454.6	6371.0	6167.9	6197.8
35°	6496.3	6579.9	6651.6	6735.2	6747.1	6806.8	6723.2	6735.2	6651.6	6502.3	6550.1
37.5°	6968.1	6962.1	7039.7	7141.2	7153.1	7105.4	7171.1	7141.2	7027.8	6926.3	6848.6
40°	7517.4	7398.0	7469.6	7708.4	7726.4	7642.8	7636.8	7630.8	7547.2	7326.3	7278.5
42.5°	7995.0	8150.3	8138.3	8216.0	8162.2	8120.4	8269.7	8186.1	8120.4	7887.6	7845.8
45°	8610.1	8657.8	8813.1	9063.8	8807.1	8807.1	8908.6	8842.9	8807.1	8633.9	8472.7
47.5°	9374.3	9416.1	9726.6	9744.5	9577.3	9463.9	9780.3	9792.3	9643.0	9511.7	9314.6
50°	10270.0	10287.9	10568.5	10855.1	10670.0	10455.1	10777.5	10902.9	10568.5	10389.4	10144.6
52.5°	11255.2	11201.4	11434.3	11971.7	11792.5	11726.9	12073.2	12103.0	11649.2	11368.6	11434.3
55°	12389.6	12318.0	12950.9	13315.1	13201.7	13082.3	13237.5	13309.2	12944.9	12485.2	12646.4
57.5°	13858.5	13894.3	14210.8	14569.0	14754.1	14784.0	14855.6	14784.0	14413.8	13948.0	13798.8
60°	15327.3	15434.8	16049.8	16724.5	16784.2	17309.7	17214.1	16855.9	16330.4	15667.7	15697.5
62.5°	15870.7	15781.1	16772.3	18420.3	19823.4	20784.7	20360.8	19089.0	17870.9	16664.8	16754.4
65°	14778.0	14998.9	16348.3	18927.8	21972.9	25776.4	23519.4	20002.5	17542.5	15984.1	15811.0
67.5°	12735.9	12903.1	14616.8	17339.5	22743.2	28845.5	24713.6	18712.8	15470.6	13452.5	13559.9
70°	8872.8	8956.4	10634.2	14204.8	20623.5	27221.4	22295.4	14372.0	10682.0	8514.5	8633.9
72.5°	3570.6	3773.6	4878.2	8556.3	15225.8	20683.2	15010.9	7541.3	4430.4	3295.9	2991.4
75°	1319.6	1325.5	1558.4	2943.7	7230.8	12998.7	6771.0	2424.2	1415.1	1158.4	1104.6
77.5°	764.3	758.3	812.0	1062.8	2095.8	5075.3	1922.6	949.4	770.2	692.6	662.8
80°	477.7	471.7	555.3	704.6	919.5	1391.2	812.0	591.1	519.5	447.8	447.8
82.5°	304.5	310.5	435.9	519.5	561.3	615.0	471.7	418.0	388.1	256.7	250.8
85°	197.0	179.1	304.5	346.3	310.5	274.7	262.7	220.9	203.0	125.4	137.3
87.5°	89.6	95.5	155.2	173.2	113.4	65.7	65.7	47.8	47.8	29.9	29.9
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)