

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: P479238

Luminaire Tested: **IFLD-L-SA7E-727-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479238
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-727-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

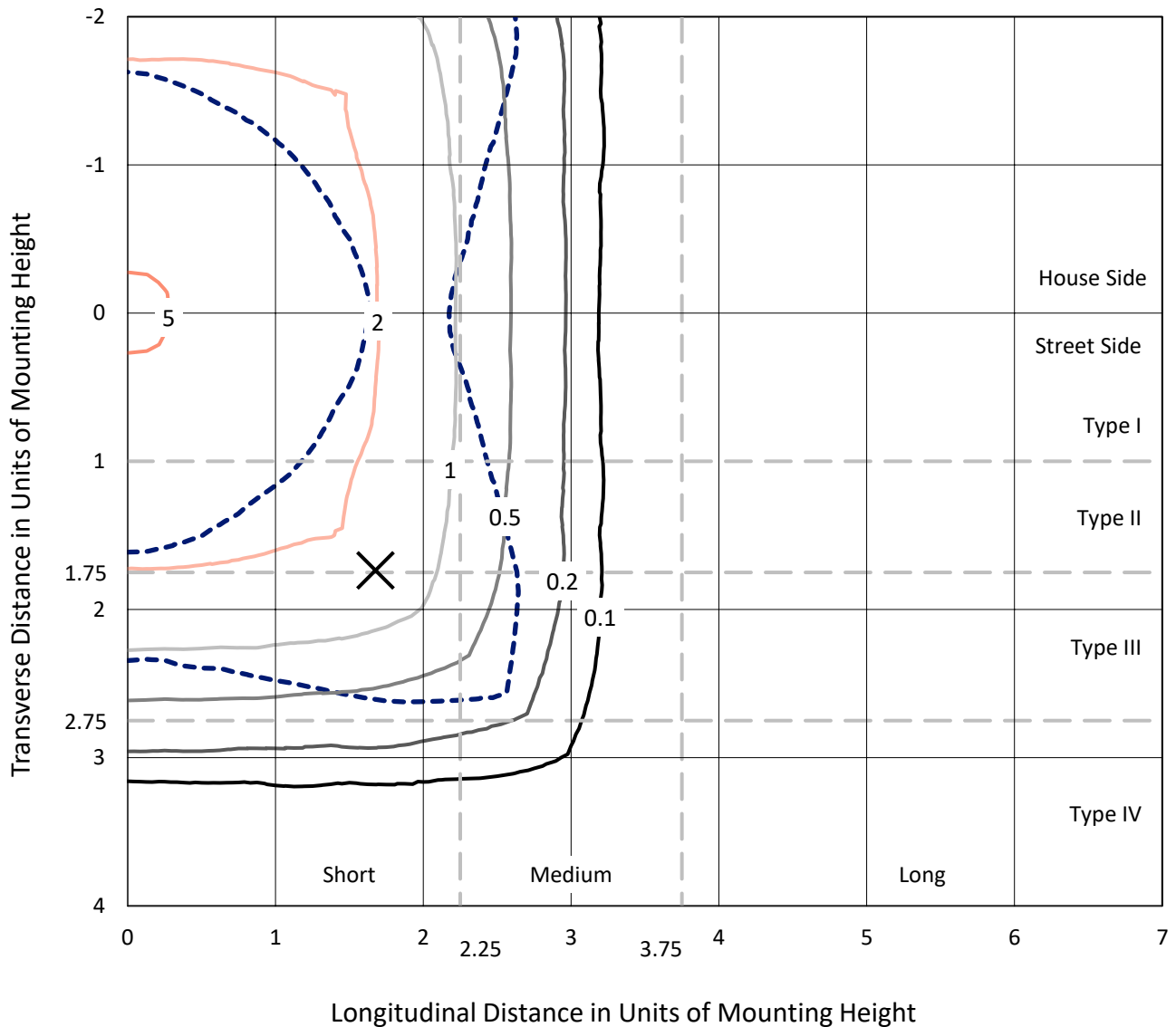
Lumens per Lamp: N/A
Luminaire Lumens: 47654.5 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 532.7
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

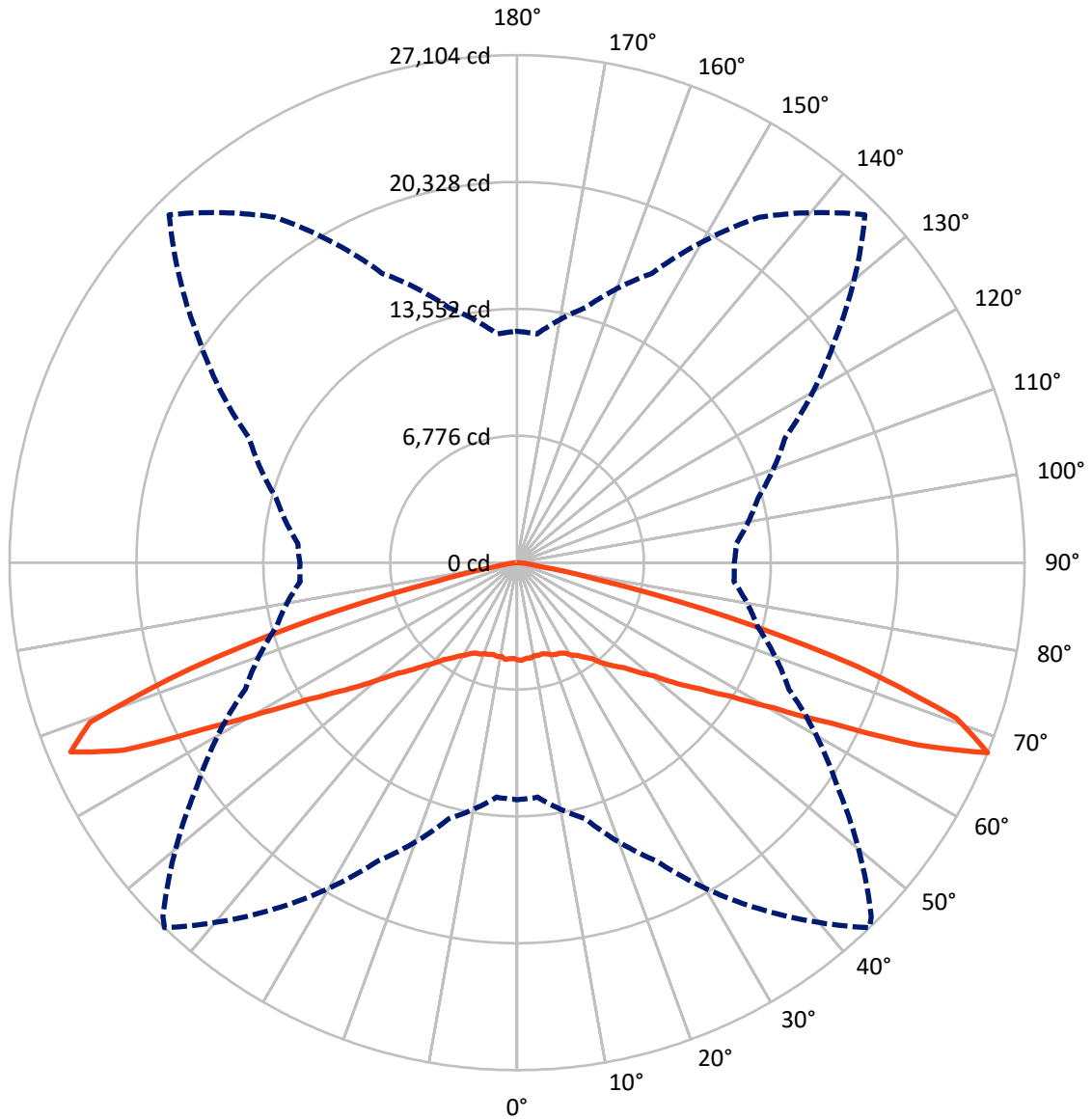
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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	23766.3	0.0	23766.3
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	23888.3	0.0	23888.3
	% Fixture	50.1	0.0	50.1
Total	Lumens	47654.5	0.0	47654.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.6	1.0
10°-20°	1439.1	3.0
20°-30°	2447.2	5.1
30°-40°	3880.2	8.1
40°-50°	6327.0	13.3
50°-60°	10805.7	22.7
60°-70°	16435.3	34.5
70°-80°	5539.7	11.6
80°-90°	287.6	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°	47654.5	100.0
0°-180°	47654.5	100.0

Coefficient of Utilization



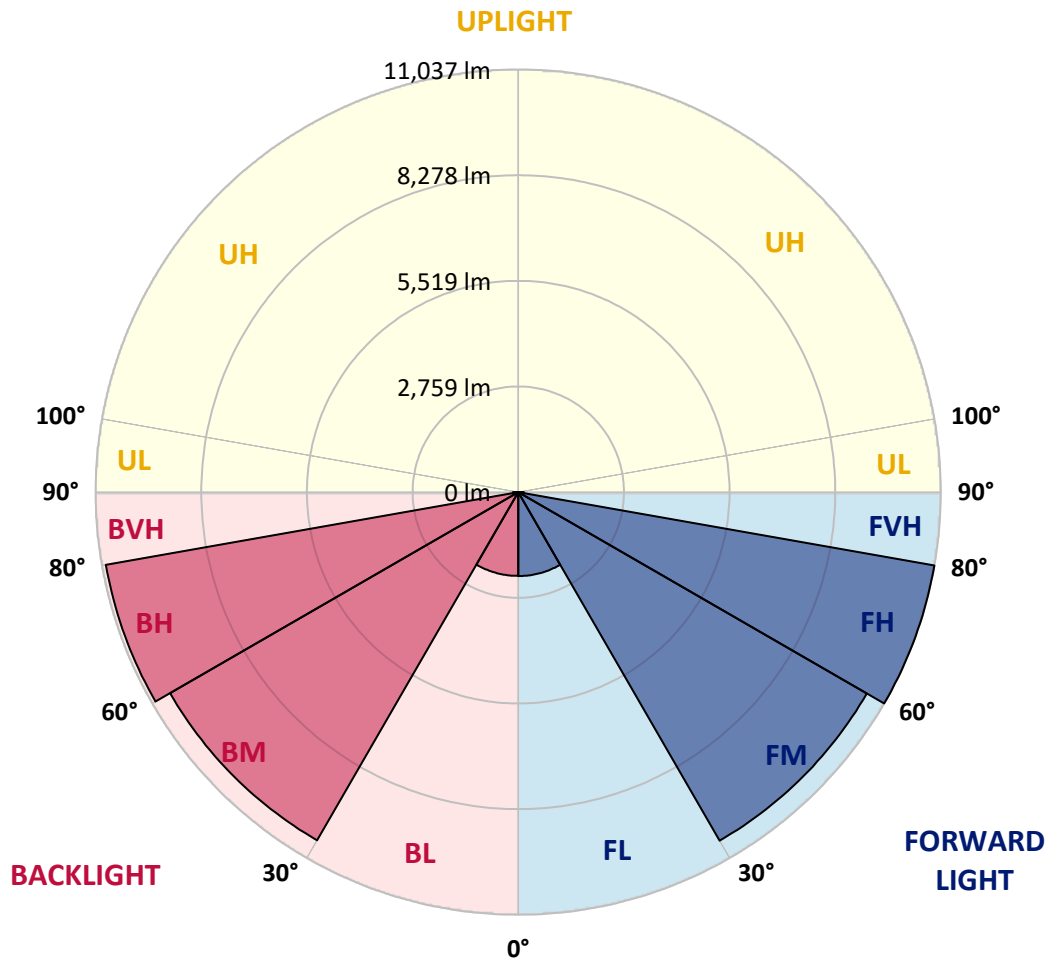
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2191.7	4.6			
FM (30°-60°)	10512.1	22.1			
FH (60°-80°)	11037.3	23.2			G4/12000
FVH (80°-90°)	147.1	0.3			G2/225
BL (0°-30°)	2187.2	4.6	B3/2500		
BM (30°-60°)	10500.8	22.0	B5		
BH (60°-80°)	10937.8	23.0	B5		G4/12000
BVH (80°-90°)	140.5	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°	5205.4	5205.4	5205.4	5205.4	5205.4	5205.4	5205.4	5205.4	5205.4	5205.4	5205.4
2.5°	5085.8	5145.6	5189.1	5183.7	5200.0	5216.3	5194.6	5227.2	5205.4	5243.5	5265.3
5°	5183.7	5167.4	5172.8	5140.2	5216.3	5129.3	5129.3	5172.8	5227.2	5161.9	5200.0
7.5°	5123.8	5113.0	5085.8	5134.7	5151.0	5151.0	5194.6	5113.0	5205.4	5227.2	5232.6
10°	5058.6	4998.7	5080.3	5129.3	5140.2	5053.1	5091.2	5113.0	5085.8	5113.0	5129.3
12.5°	5004.2	5036.8	5036.8	5036.8	5020.5	5080.3	5118.4	5113.0	5058.6	5107.5	5020.5
15°	4998.7	4982.4	5031.4	5074.9	5047.7	5058.6	5074.9	5123.8	5020.5	5042.3	5042.3
17.5°	4993.3	5015.1	5031.4	5025.9	5118.4	5118.4	5102.1	5069.5	5151.0	5107.5	5047.7
20°	5015.1	4998.7	5042.3	5058.6	5123.8	5254.4	5205.4	5178.2	5134.7	5080.3	5080.3
22.5°	5042.3	5031.4	5091.2	5161.9	5287.0	5319.7	5314.2	5281.6	5205.4	5140.2	5129.3
25°	5140.2	5042.3	5107.5	5243.5	5287.0	5352.3	5395.8	5352.3	5248.9	5265.3	5167.4
27.5°	5287.0	5270.7	5357.7	5450.2	5412.1	5472.0	5433.9	5466.5	5472.0	5390.4	5292.5
30°	5461.1	5412.1	5466.5	5646.0	5662.3	5727.6	5662.3	5575.3	5602.5	5531.8	5482.8
32.5°	5711.3	5695.0	5798.3	5918.0	5939.7	5907.1	5874.5	5923.4	5809.2	5754.8	5667.8
35°	5874.5	5945.2	6070.3	6162.8	6233.5	6200.8	6217.1	6168.2	6195.4	6081.2	6043.1
37.5°	6358.6	6331.4	6358.6	6516.3	6532.6	6516.3	6532.6	6587.0	6548.9	6451.0	6353.1
40°	6815.5	6772.0	6837.2	7016.7	7005.9	7060.2	6951.5	7011.3	7011.3	6826.4	6788.3
42.5°	7158.2	7305.0	7381.2	7528.0	7582.4	7533.5	7511.7	7522.6	7642.3	7424.7	7343.1
45°	7865.3	7859.8	8088.3	8169.9	8017.6	8006.7	7963.2	8093.7	8175.3	8050.2	8017.6
47.5°	8632.2	8670.3	8800.8	8833.5	8925.9	8757.3	8757.3	8773.6	9061.9	8768.2	8615.9
50°	9323.0	9372.0	9633.0	9888.7	9714.6	9535.1	9605.9	9692.9	9850.6	9573.2	9442.7
52.5°	10160.7	10427.2	10601.2	10737.2	10862.3	10737.2	10574.1	10672.0	10982.0	10612.1	10448.9
55°	11368.2	11580.3	11743.5	11993.7	12097.1	11928.4	11912.1	11901.2	12075.3	11683.7	11460.7
57.5°	12717.1	12630.1	12891.2	13277.4	13652.7	13489.5	13440.6	13451.5	13495.0	12940.2	12771.5
60°	14392.5	14490.4	14800.4	15137.6	15534.7	15763.2	15442.2	15257.3	15295.4	14539.3	14278.2
62.5°	15349.8	15567.4	16269.0	17427.6	18227.2	18939.7	18988.7	17786.6	16981.6	15513.0	14403.3
65°	14887.4	14854.8	16176.6	18319.7	21349.4	23421.7	23111.7	20196.2	17384.1	15050.6	13560.2
67.5°	12662.8	12575.7	14174.9	17574.5	22578.6	27104.2	26750.6	20876.1	16024.3	13315.5	11629.3
70°	8159.0	8137.2	9872.4	13397.1	20158.1	24884.9	25015.5	18961.5	13043.5	9752.7	8082.8
72.5°	2964.4	3143.9	4150.2	7201.7	13690.8	19037.6	19119.2	14038.9	7500.8	4509.2	3323.4
75°	1093.3	1125.9	1310.9	2338.9	6238.9	11689.1	11993.7	6810.0	2665.3	1468.6	1196.7
77.5°	631.0	636.4	701.7	870.3	1849.4	4563.6	4748.5	2066.9	1033.5	783.3	723.4
80°	429.7	424.3	495.0	565.7	739.7	1294.6	1376.1	864.9	652.7	543.9	456.9
82.5°	250.2	266.5	364.4	402.5	451.5	571.1	582.0	538.5	489.5	402.5	299.2
85°	152.3	125.1	201.3	223.0	261.1	255.6	255.6	293.7	315.5	282.8	168.6
87.5°	38.1	38.1	49.0	54.4	70.7	54.4	59.8	114.2	152.3	141.4	87.0
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°	5205.4	5205.4	5205.4	5205.4	5205.4	5205.4	5205.4	5205.4	5205.4	5205.4	5205.4
2.5°	5216.3	5200.0	5210.9	5270.7	5232.6	5118.4	5145.6	5205.4	5156.5	5129.3	5123.8
5°	5194.6	5227.2	5189.1	5200.0	5238.1	5145.6	5161.9	5238.1	5205.4	5216.3	5156.5
7.5°	5200.0	5216.3	5183.7	5134.7	5134.7	5210.9	5167.4	5178.2	5129.3	5210.9	5102.1
10°	5167.4	5123.8	5085.8	5113.0	5102.1	5080.3	5064.0	5096.6	5047.7	5118.4	5042.3
12.5°	5069.5	5080.3	5069.5	5058.6	5080.3	5134.7	5047.7	5058.6	4982.4	4993.3	5031.4
15°	5031.4	5064.0	5053.1	5113.0	5140.2	5058.6	5123.8	5058.6	4998.7	4966.1	5025.9
17.5°	5047.7	5096.6	5080.3	5123.8	5074.9	5134.7	5145.6	5118.4	5047.7	5020.5	5047.7
20°	5064.0	5047.7	5069.5	5145.6	5216.3	5156.5	5156.5	5140.2	5074.9	5036.8	5036.8
22.5°	5102.1	5074.9	5107.5	5167.4	5189.1	5281.6	5200.0	5161.9	5053.1	4955.2	5047.7
25°	5178.2	5194.6	5216.3	5194.6	5314.2	5303.3	5292.5	5265.3	5096.6	5102.1	5085.8
27.5°	5325.1	5232.6	5259.8	5390.4	5406.7	5450.2	5395.8	5444.8	5265.3	5270.7	5161.9
30°	5504.6	5406.7	5493.7	5607.9	5602.5	5684.1	5656.9	5667.8	5542.7	5472.0	5325.1
32.5°	5700.4	5689.5	5743.9	5814.6	5841.8	5885.4	5879.9	5879.9	5803.8	5618.8	5646.0
35°	5918.0	5994.1	6059.4	6135.6	6146.4	6200.8	6124.7	6135.6	6059.4	5923.4	5966.9
37.5°	6347.7	6342.3	6413.0	6505.4	6516.3	6472.8	6532.6	6505.4	6402.1	6309.6	6238.9
40°	6848.1	6739.3	6804.6	7022.2	7038.5	6962.3	6956.9	6951.5	6875.3	6674.1	6630.5
42.5°	7283.3	7424.7	7413.8	7484.5	7435.6	7397.5	7533.5	7457.3	7397.5	7185.4	7147.3
45°	7843.5	7887.0	8028.4	8256.9	8023.0	8023.0	8115.5	8055.6	8023.0	7865.3	7718.4
47.5°	8539.7	8577.8	8860.7	8877.0	8724.7	8621.3	8909.6	8920.5	8784.5	8664.8	8485.3
50°	9355.6	9372.0	9627.6	9888.7	9720.1	9524.3	9818.0	9932.2	9627.6	9464.4	9241.4
52.5°	10253.1	10204.2	10416.3	10905.8	10742.7	10682.8	10998.3	11025.5	10612.1	10356.5	10416.3
55°	11286.6	11221.3	11797.9	12129.7	12026.4	11917.6	12059.0	12124.3	11792.5	11373.6	11520.5
57.5°	12624.7	12657.3	12945.6	13272.0	13440.6	13467.8	13533.0	13467.8	13130.5	12706.3	12570.3
60°	13962.8	14060.7	14620.9	15235.6	15289.9	15768.6	15681.6	15355.2	14876.6	14272.8	14300.0
62.5°	14457.7	14376.1	15279.1	16780.3	18058.6	18934.3	18548.1	17389.5	16279.9	15181.2	15262.7
65°	13462.3	13663.6	14892.9	17242.7	20016.7	23481.6	21425.5	18221.7	15980.7	14561.1	14403.3
67.5°	11602.1	11754.4	13315.5	15795.8	20718.4	26277.4	22513.4	17046.8	14093.3	12254.8	12352.7
70°	8082.8	8159.0	9687.4	12940.2	18787.4	24797.9	20310.4	13092.5	9731.0	7756.5	7865.3
72.5°	3252.7	3437.7	4443.9	7794.6	13870.3	18841.8	13674.5	6869.9	4036.0	3002.5	2725.1
75°	1202.1	1207.5	1419.7	2681.6	6587.0	11841.4	6168.2	2208.4	1289.1	1055.2	1006.3
77.5°	696.2	690.8	739.7	968.2	1909.2	4623.4	1751.5	864.9	701.7	631.0	603.8
80°	435.1	429.7	505.9	641.8	837.7	1267.4	739.7	538.5	473.2	407.9	407.9
82.5°	277.4	282.8	397.1	473.2	511.3	560.3	429.7	380.8	353.6	233.9	228.5
85°	179.5	163.2	277.4	315.5	282.8	250.2	239.3	201.3	184.9	114.2	125.1
87.5°	81.6	87.0	141.4	157.7	103.3	59.8	59.8	43.5	43.5	27.2	27.2
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)