

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: P481346

Luminaire Tested: **IFLD-L-SA8B-750-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481346
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-750-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

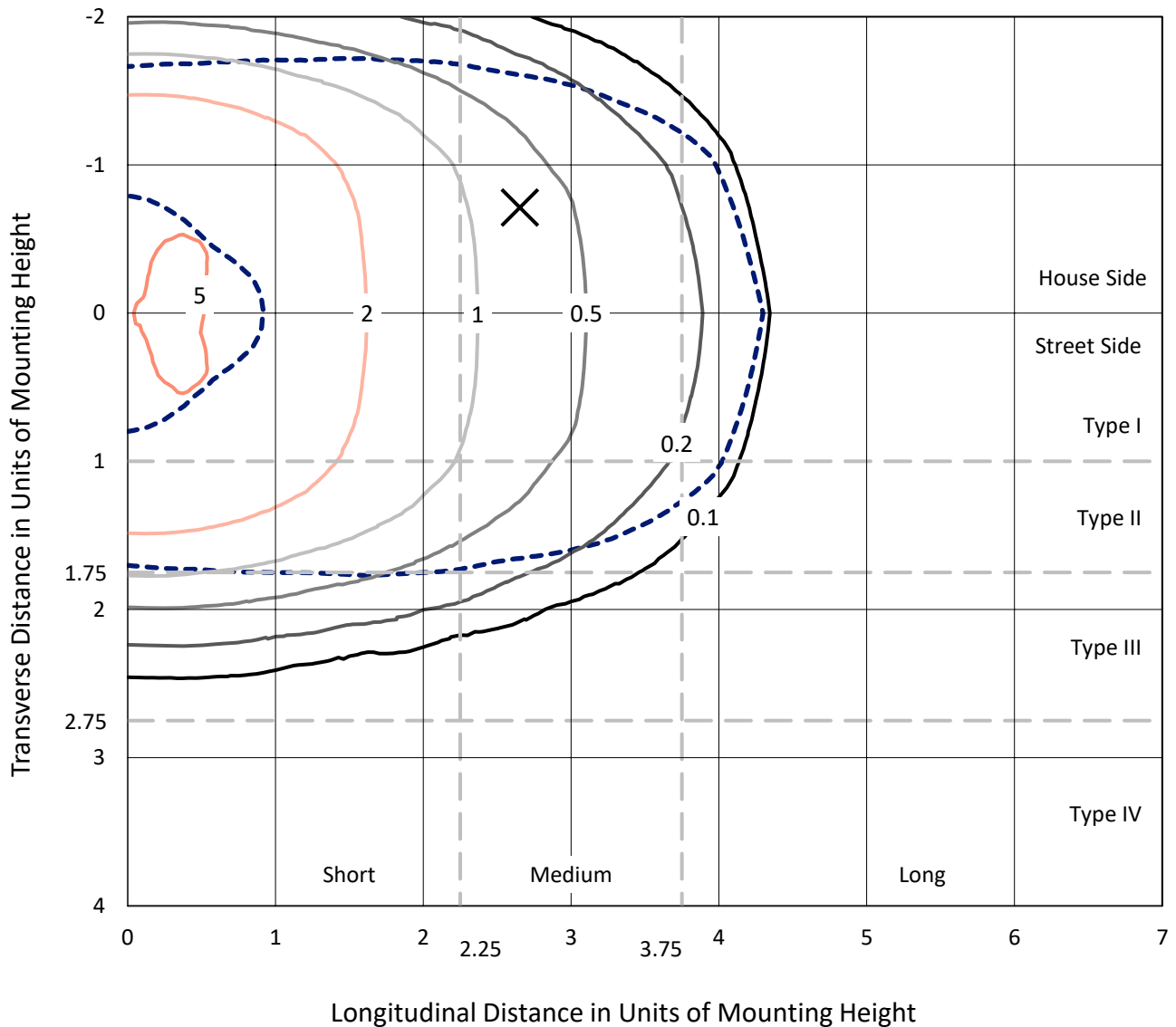
Lumens per Lamp: N/A
Luminaire Lumens: 42880.7 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 320
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

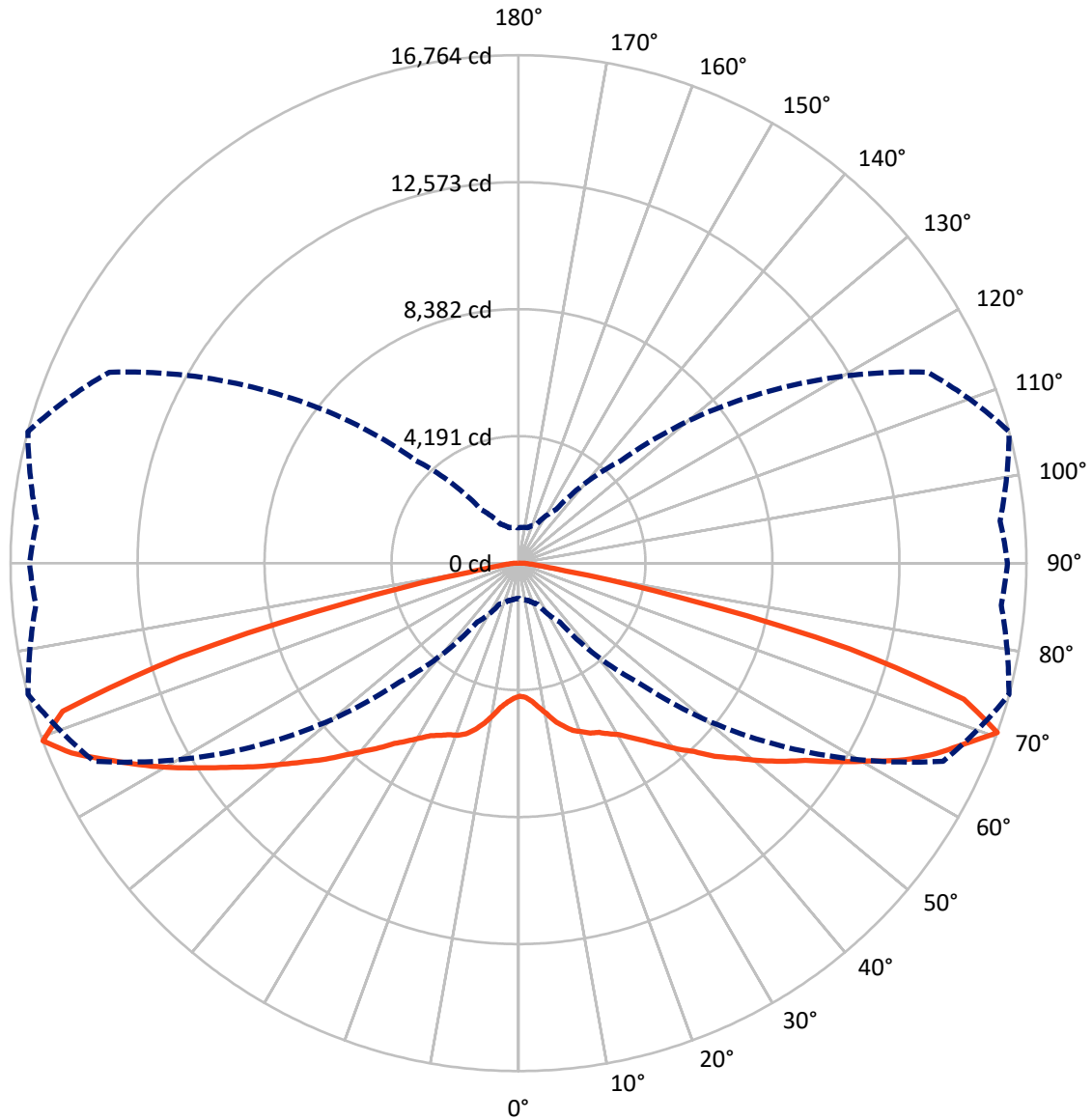
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21287.8	0.0	21287.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	21592.9	0.0	21592.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	42880.7	0.0	42880.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.0	1.0
10°-20°	1488.1	3.5
20°-30°	2881.5	6.7
30°-40°	4873.8	11.4
40°-50°	7775.1	18.1
50°-60°	10642.4	24.8
60°-70°	10031.2	23.4
70°-80°	4419.0	10.3
80°-90°	332.5	0.8
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°	42880.7	100.0
0°-180°	42880.7	100.0

Coefficient of Utilization



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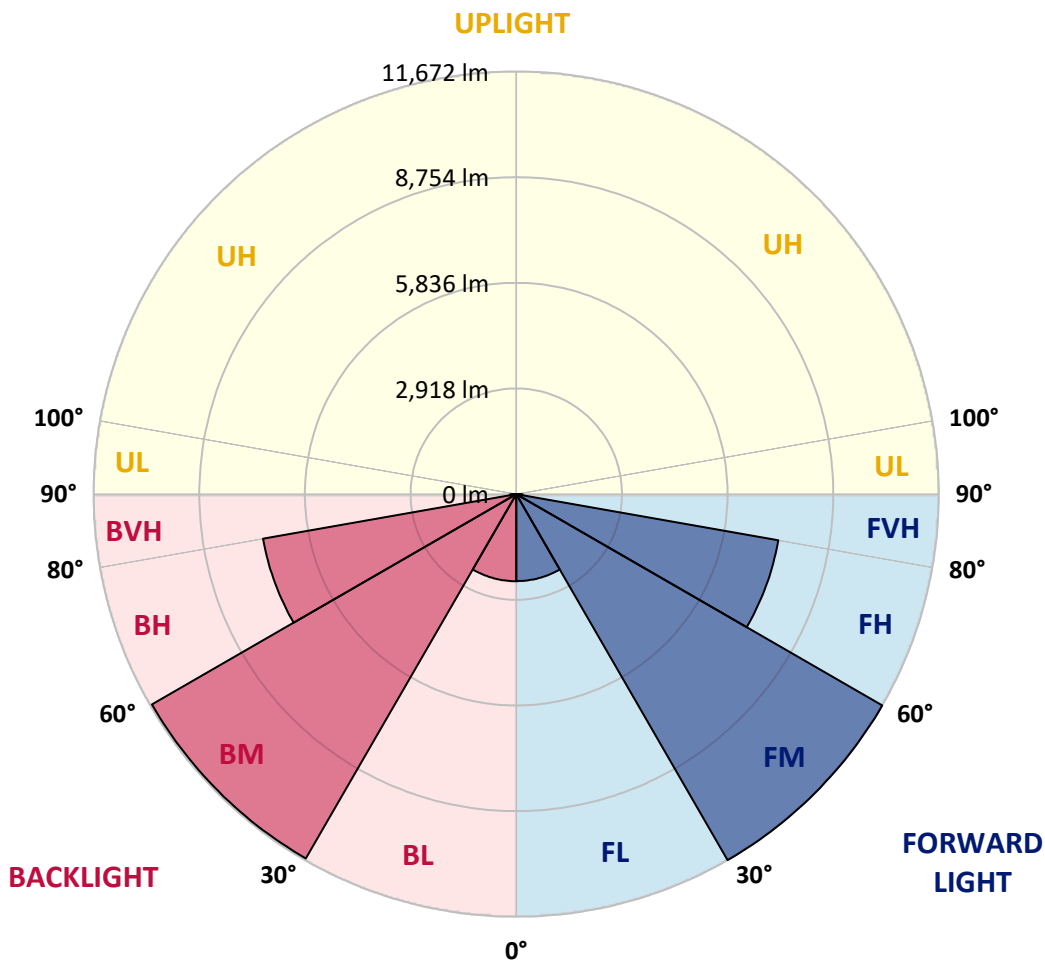
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2402.0	5.6			
FM (30°-60°)	11671.8	27.2			
FH (60°-80°)	7349.3	17.1			G3/7500
FVH (80°-90°)	169.8	0.4			G2/225
BL (0°-30°)	2404.6	5.6	B3/2500		
BM (30°-60°)	11619.6	27.1	B5		
BH (60°-80°)	7101.0	16.6	B5		G5
BVH (80°-90°)	162.6	0.4			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4390.9	4390.9	4390.9	4390.9	4390.9	4390.9	4390.9	4390.9	4390.9	4390.9	4390.9
2.5°	4363.2	4363.2	4358.6	4381.7	4404.8	4414.1	4432.5	4437.2	4464.9	4441.8	4488.0
5°	4349.3	4344.7	4381.7	4437.2	4437.2	4497.3	4534.2	4585.1	4598.9	4626.7	4635.9
7.5°	4446.4	4437.2	4418.7	4478.8	4529.6	4622.0	4672.9	4760.7	4793.1	4830.0	4871.6
10°	4506.5	4506.5	4488.0	4594.3	4640.5	4765.3	4876.3	4964.1	5088.9	5130.5	5135.1
12.5°	4515.7	4529.6	4585.1	4723.7	4853.2	5014.9	5098.1	5264.5	5389.3	5467.9	5495.6
15°	4654.4	4626.7	4686.8	4876.3	5065.8	5209.0	5357.0	5477.1	5657.4	5759.1	5823.8
17.5°	4779.2	4751.5	4862.4	5088.9	5283.0	5504.9	5634.3	5763.7	5893.1	5985.6	5990.2
20°	4977.9	5001.1	5098.1	5343.1	5597.3	5791.4	5939.3	5962.4	6027.2	6161.2	6138.1
22.5°	5222.9	5204.4	5407.8	5675.9	5953.2	6115.0	6198.2	6138.1	6105.7	6249.0	6281.4
25°	5467.9	5523.3	5708.2	5957.8	6290.6	6507.8	6531.0	6364.6	6244.4	6295.2	6281.4
27.5°	5842.3	5851.5	6045.6	6341.4	6678.9	6868.4	6854.5	6618.8	6387.7	6392.3	6401.5
30°	6323.0	6276.7	6489.4	6757.4	7090.2	7261.2	7284.3	6946.9	6637.3	6544.8	6567.9
32.5°	6785.2	6840.6	7025.5	7330.6	7575.5	7672.6	7621.8	7321.3	6919.2	6794.4	6808.3
35°	7376.8	7367.5	7621.8	7880.6	8065.5	8084.0	8042.4	7603.3	7224.3	7062.5	6997.8
37.5°	8010.0	8093.2	8259.6	8472.2	8666.3	8675.6	8449.1	8097.8	7631.0	7362.9	7441.5
40°	8717.2	8809.6	8929.8	9239.5	9382.8	9234.9	9003.7	8527.7	8042.4	7806.6	7843.6
42.5°	9341.2	9382.8	9627.7	9992.9	10062.2	9997.5	9655.5	9077.7	8513.8	8255.0	8273.5
45°	9914.3	9969.8	10288.7	10616.8	10778.6	10667.7	10270.2	9720.2	9063.8	8842.0	8754.2
47.5°	10441.2	10552.1	10861.8	11199.2	11448.8	11458.1	10968.1	10302.5	9609.2	9318.0	9313.4
50°	10797.1	10958.9	11263.9	11647.6	12012.7	12156.0	11666.0	10949.6	10205.5	9895.8	9863.5
52.5°	10991.2	11157.6	11462.7	12058.9	12465.7	12687.5	12456.4	11555.1	10903.4	10579.9	10529.0
55°	10755.5	10866.4	11365.6	12202.2	12830.8	13195.9	13043.4	12391.7	11596.7	11333.3	11379.5
57.5°	9752.5	9983.6	10598.4	11642.9	12821.6	13718.2	13704.4	13182.1	12396.3	12146.7	12156.0
60°	8028.5	8222.6	8980.6	10441.2	12303.9	13930.9	14420.8	13949.3	13293.0	13001.8	12992.6
62.5°	5666.6	5911.6	6789.8	8384.4	10778.6	13635.0	15243.5	14915.3	14171.2	13958.6	14037.2
65°	3170.7	3318.6	4132.1	5574.2	8213.4	12008.1	15391.4	15918.3	15063.3	14739.7	14753.6
67.5°	1696.3	1751.8	2130.8	2925.8	5024.2	9258.0	13898.5	16496.1	16029.3	15470.0	15382.2
70°	1164.8	1183.2	1280.3	1497.5	2375.7	5537.2	10482.8	15465.4	16754.9	15992.3	16140.2
72.5°	984.5	975.3	998.4	1021.5	1243.3	2477.4	6151.9	11901.8	15816.6	15530.1	15474.6
75°	855.1	850.5	859.7	836.6	864.3	1090.8	2722.4	7418.4	11578.2	12923.2	13131.2
77.5°	707.2	711.8	716.4	693.3	684.1	721.0	1095.4	3258.5	5699.0	6290.6	6785.2
80°	536.2	545.4	582.4	559.3	522.3	526.9	647.1	1090.8	1636.2	1483.7	1529.9
82.5°	365.1	369.8	448.3	420.6	392.9	355.9	416.0	563.9	637.8	485.3	425.2
85°	258.8	254.2	291.2	268.1	249.6	180.3	249.6	318.9	383.6	240.3	217.2
87.5°	60.1	60.1	120.2	97.1	92.4	74.0	97.1	124.8	166.4	106.3	97.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4390.9	4390.9	4390.9	4390.9	4390.9	4390.9	4390.9	4390.9	4390.9	4390.9
2.5°	4474.1	4432.5	4432.5	4423.3	4386.3	4377.1	4344.7	4354.0	4330.9	4307.7
5°	4631.3	4575.8	4575.8	4497.3	4423.3	4414.1	4377.1	4377.1	4340.1	4349.3
7.5°	4848.5	4797.7	4714.5	4645.2	4543.5	4501.9	4432.5	4423.3	4414.1	4395.6
10°	5107.4	5042.7	4959.5	4816.2	4733.0	4654.4	4585.1	4488.0	4464.9	4469.5
12.5°	5458.6	5357.0	5176.7	5051.9	4945.6	4843.9	4742.2	4598.9	4566.6	4580.4
15°	5708.2	5578.8	5398.6	5352.3	5209.0	5084.3	4917.9	4756.1	4700.6	4686.8
17.5°	5911.6	5805.3	5699.0	5629.7	5514.1	5361.6	5130.5	4945.6	4820.8	4806.9
20°	6078.0	5939.3	5916.2	5957.8	5814.5	5712.9	5430.9	5204.4	5038.0	4968.7
22.5°	6179.7	6091.9	6156.6	6193.5	6184.3	6013.3	5722.1	5458.6	5250.6	5185.9
25°	6290.6	6188.9	6420.0	6544.8	6577.2	6295.2	6068.7	5722.1	5518.7	5477.1
27.5°	6346.1	6383.0	6651.1	6914.6	6891.5	6674.2	6369.2	6059.5	5897.7	5823.8
30°	6507.8	6567.9	6974.7	7270.5	7275.1	7062.5	6831.4	6480.1	6299.9	6267.5
32.5°	6799.0	6873.0	7307.5	7621.8	7677.2	7515.4	7284.3	7067.1	6882.2	6808.3
35°	7020.9	7210.4	7700.3	7986.9	8134.8	8037.7	7908.3	7681.8	7487.7	7423.0
37.5°	7339.8	7603.3	8074.7	8463.0	8629.4	8620.1	8523.1	8278.1	8116.3	8060.9
40°	7797.4	8060.9	8490.7	9003.7	9313.4	9299.6	9244.1	9054.6	8814.2	8786.5
42.5°	8282.7	8499.9	9059.2	9646.2	10089.9	10043.7	9895.8	9673.9	9507.6	9470.6
45°	8754.2	9091.6	9609.2	10362.6	10695.4	10811.0	10635.3	10256.3	10066.8	10043.7
47.5°	9345.8	9613.9	10260.9	10935.8	11430.3	11448.8	11148.4	10797.1	10450.5	10524.4
50°	9872.7	10228.6	10884.9	11624.5	12216.1	12003.5	11619.8	11180.7	10931.1	10834.1
52.5°	10436.6	10871.1	11633.7	12387.1	12715.3	12502.6	11878.7	11388.7	11009.7	10968.1
55°	11259.3	11485.8	12484.2	13061.9	13168.2	12719.9	11800.1	11106.8	10616.8	10496.7
57.5°	12095.9	12359.4	13232.9	13732.1	13621.2	12599.7	11291.7	10219.3	9576.9	9405.9
60°	12941.7	13265.3	14000.2	14457.8	13884.6	11772.4	9854.2	8472.2	7723.4	7570.9
62.5°	13884.6	14305.2	14961.6	15123.3	13103.5	10136.2	7820.5	6115.0	5357.0	5102.7
65°	14721.2	15151.1	15959.9	14984.7	11444.2	7561.7	5056.5	3494.3	2935.0	2731.6
67.5°	15409.9	15895.2	16292.7	13260.7	8379.8	4427.9	2634.6	1839.6	1631.6	1557.6
70°	15955.3	16764.2	14906.1	9747.9	4788.4	2158.5	1423.6	1211.0	1183.2	1164.8
72.5°	15479.2	15372.9	11129.9	5625.0	2098.4	1187.9	1030.7	998.4	993.7	998.4
75°	12659.8	11291.7	6655.7	2445.1	1053.8	859.7	855.1	841.2	864.3	864.3
77.5°	6142.7	5370.8	2782.5	1049.2	693.3	674.8	697.9	697.9	697.9	697.9
80°	1423.6	1576.1	993.7	637.8	503.8	503.8	554.6	559.3	536.2	526.9
82.5°	485.3	647.1	545.4	402.1	332.8	374.4	420.6	429.9	355.9	360.5
85°	240.3	379.0	295.8	231.1	171.0	231.1	272.7	286.6	245.0	235.7
87.5°	110.9	166.4	110.9	78.6	60.1	83.2	78.6	64.7	37.0	37.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)