

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: P480761

Luminaire Tested: **IFLD-L-SA8B-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480761
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

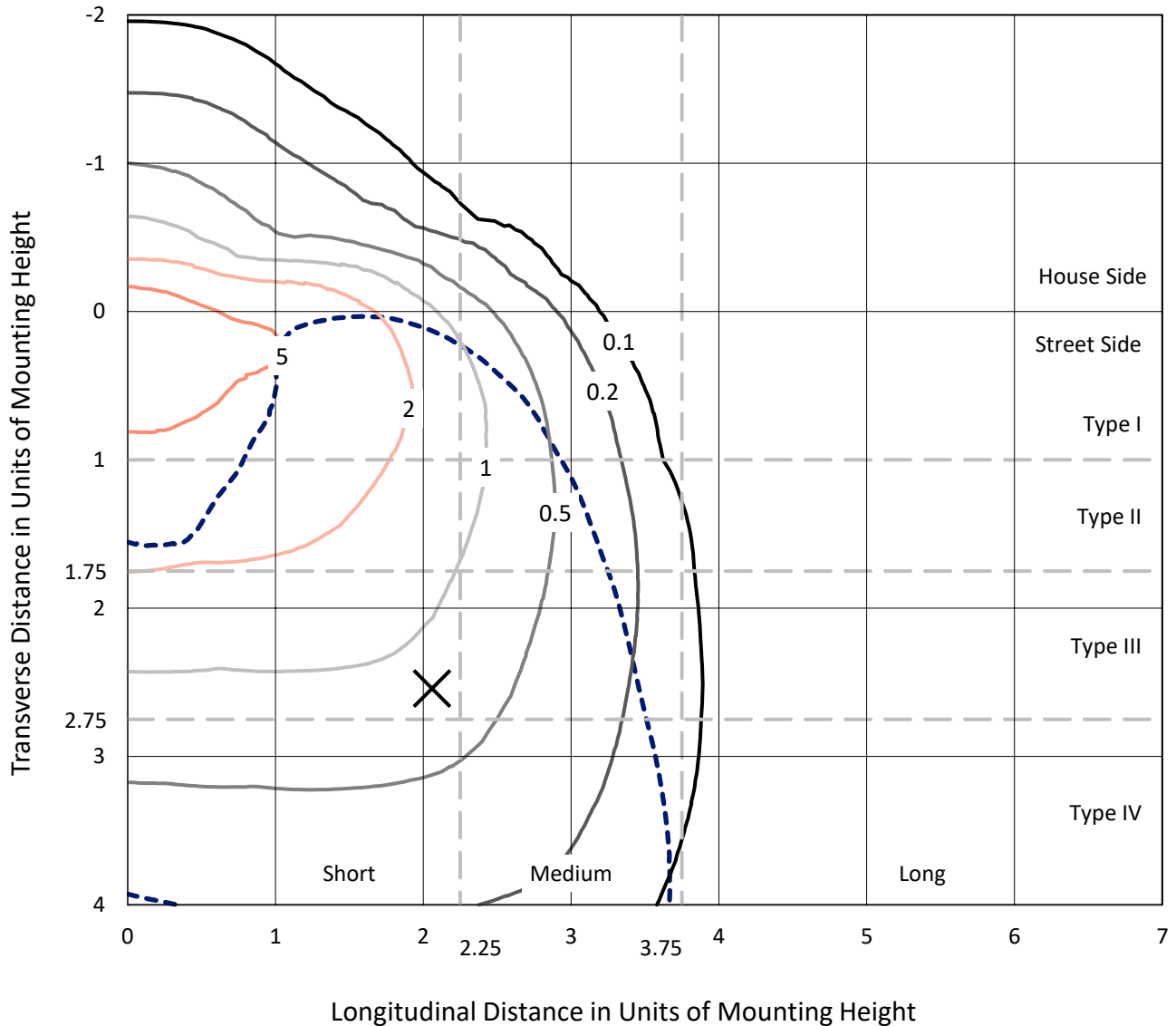
Lumens per Lamp: N/A
Luminaire Lumens: 28997.7 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

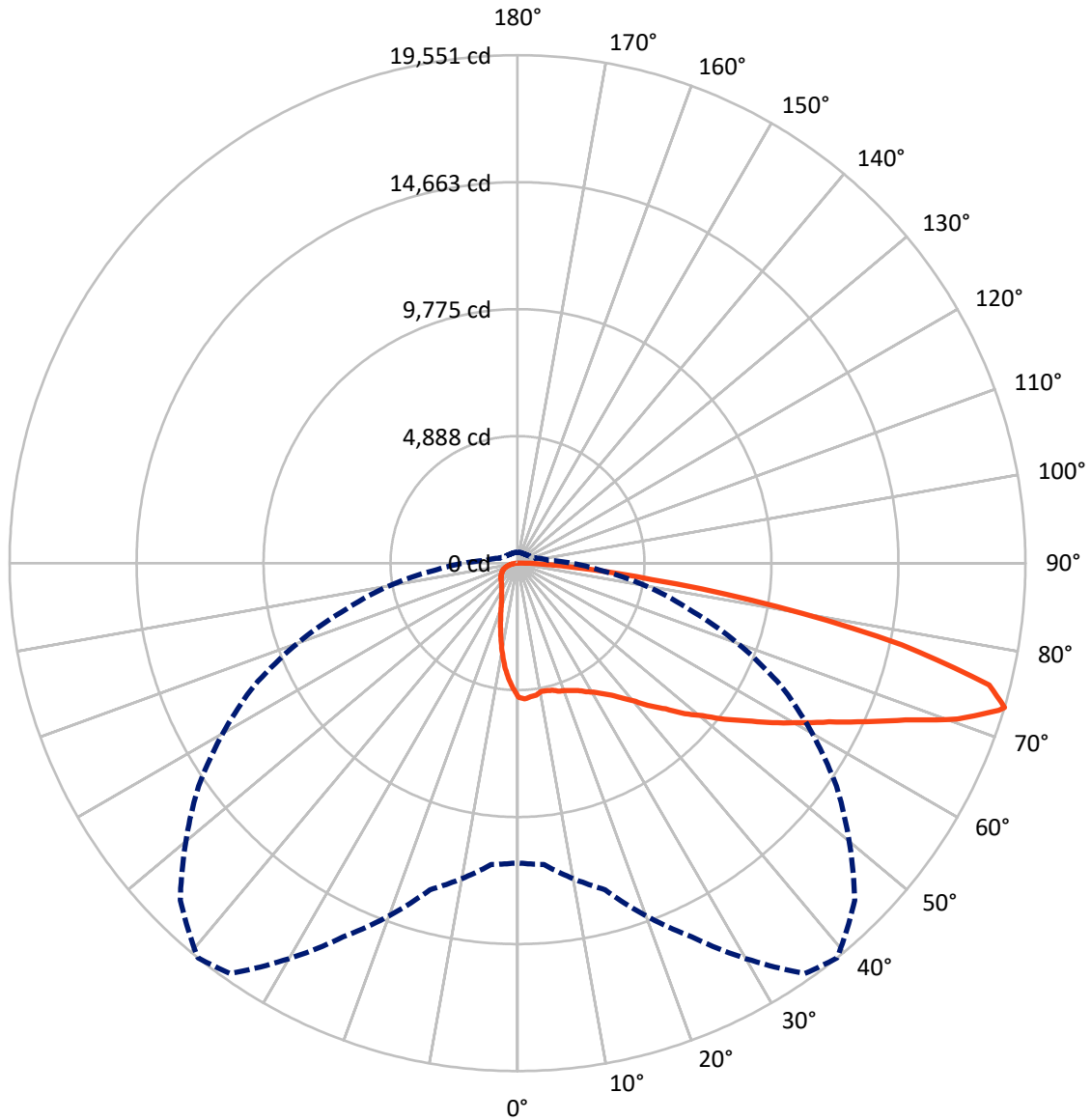
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4076.3	0.0	4076.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	24921.5	0.0	24921.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	28997.7	0.0	28997.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.1	1.5
10°-20°	1139.1	3.9
20°-30°	1740.7	6.0
30°-40°	2537.9	8.8
40°-50°	3835.1	13.2
50°-60°	5553.4	19.2
60°-70°	7055.9	24.3
70°-80°	5719.9	19.7
80°-90°	967.8	3.3
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°	28997.7	100.0
0°-180°	28997.7	100.0

Coefficient of Utilization



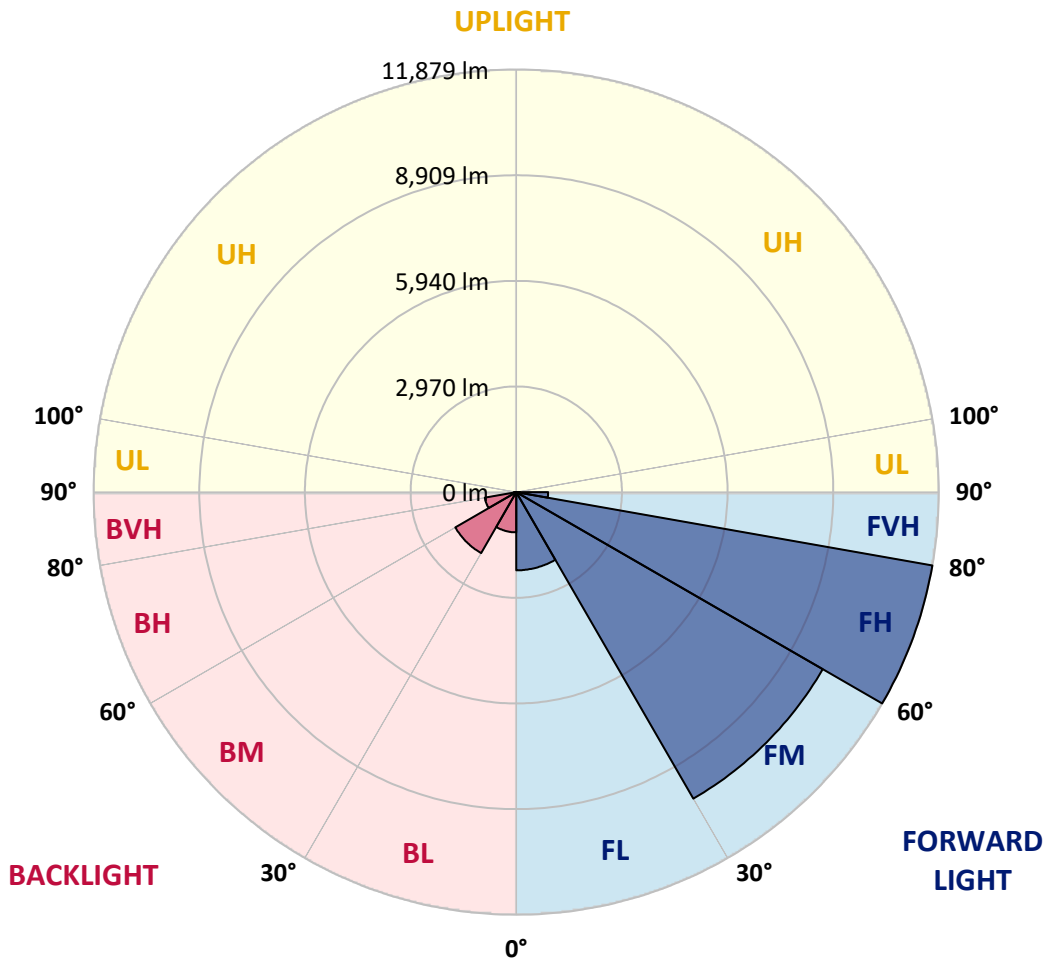
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2197.4	7.6			
FM (30°-60°)	9948.1	34.3			
FH (60°-80°)	11879.2	41.0			G4/12000
FVH (80°-90°)	896.8	3.1			G5
BL (0°-30°)	1130.4	3.9	B3/2500		
BM (30°-60°)	1978.3	6.8	B2/2500		
BH (60°-80°)	896.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	71.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5161.8	5161.8	5161.8	5161.8	5161.8	5161.8	5161.8	5161.8	5161.8	5161.8	5161.8
2.5°	5285.1	5229.9	5239.6	5220.2	5239.6	5233.2	5223.4	5174.8	5223.4	5174.8	5161.8
5°	5213.7	5213.7	5246.1	5197.5	5204.0	5171.5	5204.0	5168.3	5135.8	5054.7	5032.0
7.5°	5191.0	5187.7	5191.0	5122.8	5155.3	5135.8	5103.4	5064.4	4999.6	4947.6	4873.0
10°	5035.2	5067.7	5032.0	5051.5	5077.4	5019.0	5015.8	5006.0	4976.8	4908.7	4863.3
12.5°	4950.9	5006.0	5025.5	5009.3	5032.0	5038.5	5019.0	5006.0	4970.4	4924.9	4795.2
15°	4986.6	4921.7	4976.8	5083.9	5061.2	5077.4	5080.7	5067.7	5051.5	4967.1	4882.8
17.5°	4996.3	4957.4	5074.2	5096.9	5126.1	5184.5	5145.6	5142.3	5080.7	5022.3	4899.0
20°	5019.0	5002.8	5096.9	5216.9	5220.2	5229.9	5249.4	5200.7	5168.3	5067.7	4879.5
22.5°	5103.4	5158.5	5246.1	5298.0	5327.2	5333.7	5333.7	5236.4	5200.7	5119.6	4970.4
25°	5356.4	5298.0	5421.3	5483.0	5440.8	5431.1	5408.3	5320.7	5281.8	5210.4	5012.5
27.5°	5541.4	5538.1	5609.5	5693.9	5580.3	5603.0	5521.9	5495.9	5408.3	5369.4	5087.2
30°	5794.4	5865.8	5862.6	5888.5	5739.3	5765.2	5661.4	5612.7	5564.1	5586.8	5307.8
32.5°	6118.9	6092.9	6135.1	6115.6	5966.4	5989.1	5865.8	5791.2	5807.4	5875.5	5609.5
35°	6326.5	6300.5	6316.8	6316.8	6271.3	6245.4	6193.5	6096.2	6174.0	6300.5	5946.9
37.5°	6550.4	6582.8	6676.9	6657.4	6599.0	6599.0	6592.5	6524.4	6625.0	6936.4	6485.5
40°	6748.3	6835.9	6894.3	6933.2	7001.3	7001.3	7056.5	7017.5	7199.2	7698.9	7144.1
42.5°	6955.9	6959.2	7277.1	7306.3	7458.8	7523.7	7565.8	7598.3	7938.9	8497.0	7848.1
45°	7221.9	7238.2	7517.2	7741.0	7977.9	8000.6	8159.6	8266.6	8685.1	9369.7	8613.8
47.5°	7572.3	7552.9	7851.3	8208.2	8503.5	8659.2	8850.6	8967.4	9483.3	10317.1	9450.8
50°	8033.0	7974.6	8146.6	8707.9	9055.0	9227.0	9567.6	9762.3	10365.7	11222.2	10025.1
52.5°	8594.3	8497.0	8633.2	9246.4	9635.7	9982.9	10307.3	10524.7	11154.1	11923.0	10450.1
55°	9188.0	8986.9	9025.8	9817.4	10378.7	10706.4	11150.9	11378.0	12020.4	12552.4	10875.1
57.5°	9775.3	9648.7	9570.9	10365.7	11264.4	11579.1	11987.9	12283.1	12828.2	13110.5	11235.2
60°	10268.4	10236.0	10109.4	11215.7	12202.0	12471.3	12899.6	13081.3	13493.3	13626.3	11241.7
62.5°	10673.9	10563.6	10764.8	11900.3	13155.9	13460.8	13931.3	13947.5	14239.5	13947.5	10910.8
65°	10991.9	10998.4	11319.6	12727.6	14259.0	14709.9	15089.5	15047.3	14859.2	13756.1	10128.9
67.5°	11280.6	11403.9	11874.4	13636.0	15676.7	16101.8	16523.5	15965.5	15027.9	12860.6	8600.8
70°	11507.7	11631.0	12623.8	14742.4	17347.6	17970.5	18064.6	16328.9	14252.5	10894.6	6488.7
72.5°	11481.8	11705.6	13048.8	15624.8	18830.3	19368.8	18609.6	15306.9	11874.4	7595.0	3786.2
73°	11536.9	11647.2	13013.1	15871.4	19281.2	19550.5	18356.6	14985.7	11199.5	6813.2	3202.2
75°	10472.8	10845.9	12367.5	15469.1	18797.8	18749.2	16903.1	12487.5	7961.7	3578.5	1550.8
77.5°	7747.5	7984.4	9746.1	12721.1	15430.2	15118.7	12750.3	7981.1	3779.7	1326.9	837.0
80°	3786.2	3971.1	5165.0	7345.2	10090.0	10115.9	7913.0	4152.8	1618.9	749.4	571.0
82.5°	1891.5	2001.8	2481.9	3228.1	4963.9	5200.7	4013.3	2361.9	1002.5	425.0	324.4
85°	1236.1	1314.0	1528.1	1580.0	2105.6	2222.4	1868.8	1842.8	652.1	230.3	262.8
87.5°	820.8	833.8	937.6	798.1	843.5	811.1	901.9	1161.5	191.4	97.3	71.4
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°	5161.8	5161.8	5161.8	5161.8	5161.8	5161.8	5161.8	5161.8	5161.8	5161.8	5161.8
2.5°	5145.6	5100.1	5051.5	4983.3	4934.7	4860.0	4791.9	4762.7	4756.2	4759.5	4727.0
5°	5012.5	4947.6	4850.3	4710.8	4629.7	4506.4	4402.6	4347.4	4289.0	4298.8	4272.8
7.5°	4827.6	4756.2	4607.0	4444.8	4243.6	4068.4	3971.1	3834.8	3757.0	3698.6	3731.0
10°	4769.2	4645.9	4422.1	4198.2	3886.7	3656.4	3432.5	3276.8	3169.7	3065.9	3111.3
12.5°	4740.0	4616.7	4305.3	3974.3	3572.0	3221.6	2906.9	2715.5	2563.0	2472.2	2507.9
15°	4714.1	4561.6	4195.0	3727.8	3276.8	2816.1	2462.5	2209.4	2063.4	1975.8	1985.5
17.5°	4749.7	4532.4	4032.7	3487.7	2952.4	2459.2	2066.7	1803.9	1654.6	1599.5	1586.5
20°	4714.1	4499.9	3873.8	3247.6	2627.9	2118.6	1742.2	1524.8	1421.0	1375.6	1365.9
22.5°	4727.0	4422.1	3708.3	2981.6	2326.2	1833.1	1524.8	1359.4	1278.3	1255.6	1262.1
25°	4788.7	4376.6	3542.8	2689.6	2027.7	1622.2	1385.3	1258.8	1200.4	1177.7	1184.2
27.5°	4834.1	4415.6	3393.6	2413.8	1774.7	1434.0	1268.5	1184.2	1145.3	1129.0	1125.8
30°	4947.6	4438.3	3247.6	2167.2	1567.0	1310.7	1187.4	1119.3	1093.3	1083.6	1080.4
32.5°	5116.4	4480.5	3078.9	1940.1	1414.5	1193.9	1122.5	1064.1	1057.7	1047.9	1051.2
35°	5392.1	4626.5	2890.7	1745.5	1268.5	1116.1	1054.4	1015.5	1015.5	1015.5	1025.2
37.5°	5787.9	4830.9	2722.0	1560.5	1174.5	1047.9	996.0	983.0	976.6	986.3	992.8
40°	6297.3	5077.4	2585.8	1414.5	1093.3	1002.5	957.1	950.6	947.4	944.1	950.6
42.5°	6855.3	5392.1	2469.0	1301.0	1035.0	953.8	921.4	914.9	901.9	908.4	918.2
45°	7410.1	5781.4	2365.1	1210.1	996.0	927.9	882.5	879.2	872.7	869.5	885.7
47.5°	8026.5	6164.3	2332.7	1155.0	966.8	889.0	856.5	853.3	833.8	830.6	843.5
50°	8506.7	6446.5	2368.4	1129.0	924.6	859.8	837.0	820.8	804.6	788.4	788.4
52.5°	8837.6	6641.2	2394.3	1109.6	901.9	820.8	791.6	785.1	768.9	752.7	746.2
55°	9136.1	6758.0	2400.8	1112.8	879.2	775.4	755.9	752.7	743.0	717.0	710.5
57.5°	9236.7	6709.3	2271.1	1083.6	866.2	746.2	720.2	726.7	713.8	691.0	687.8
60°	9227.0	6371.9	1975.8	1044.7	837.0	713.8	681.3	700.8	700.8	674.8	671.6
62.5°	8665.7	5593.3	1615.7	970.1	804.6	681.3	645.6	674.8	684.6	668.3	665.1
65°	7501.0	4555.1	1349.7	895.4	755.9	645.6	609.9	642.4	658.6	652.1	648.9
67.5°	6206.5	3484.4	1122.5	798.1	694.3	597.0	567.8	590.5	600.2	603.5	606.7
70°	4386.4	2319.7	937.6	691.0	609.9	545.1	512.6	515.9	512.6	522.3	522.3
72.5°	2384.6	1336.7	762.4	587.2	525.6	473.7	451.0	434.7	434.7	431.5	431.5
73°	2040.7	1200.4	726.7	571.0	502.9	460.7	434.7	421.8	421.8	418.5	415.3
75°	1145.3	879.2	622.9	489.9	434.7	402.3	382.8	363.4	360.1	360.1	360.1
77.5°	752.7	684.6	496.4	392.6	350.4	321.2	314.7	295.2	295.2	295.2	292.0
80°	564.5	538.6	382.8	298.5	269.3	246.6	240.1	227.1	223.9	210.9	214.1
82.5°	376.3	425.0	279.0	210.9	181.7	168.7	168.7	165.5	155.7	139.5	139.5
85°	298.5	347.1	201.2	129.8	107.1	90.8	94.1	90.8	87.6	71.4	68.1
87.5°	55.2	139.5	58.4	35.7	26.0	16.2	16.2	9.7	6.5	0.0	0.0
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)