

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: P480370

Luminaire Tested: **IFLD-L-SA8A-722-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480370  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-722-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (128) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

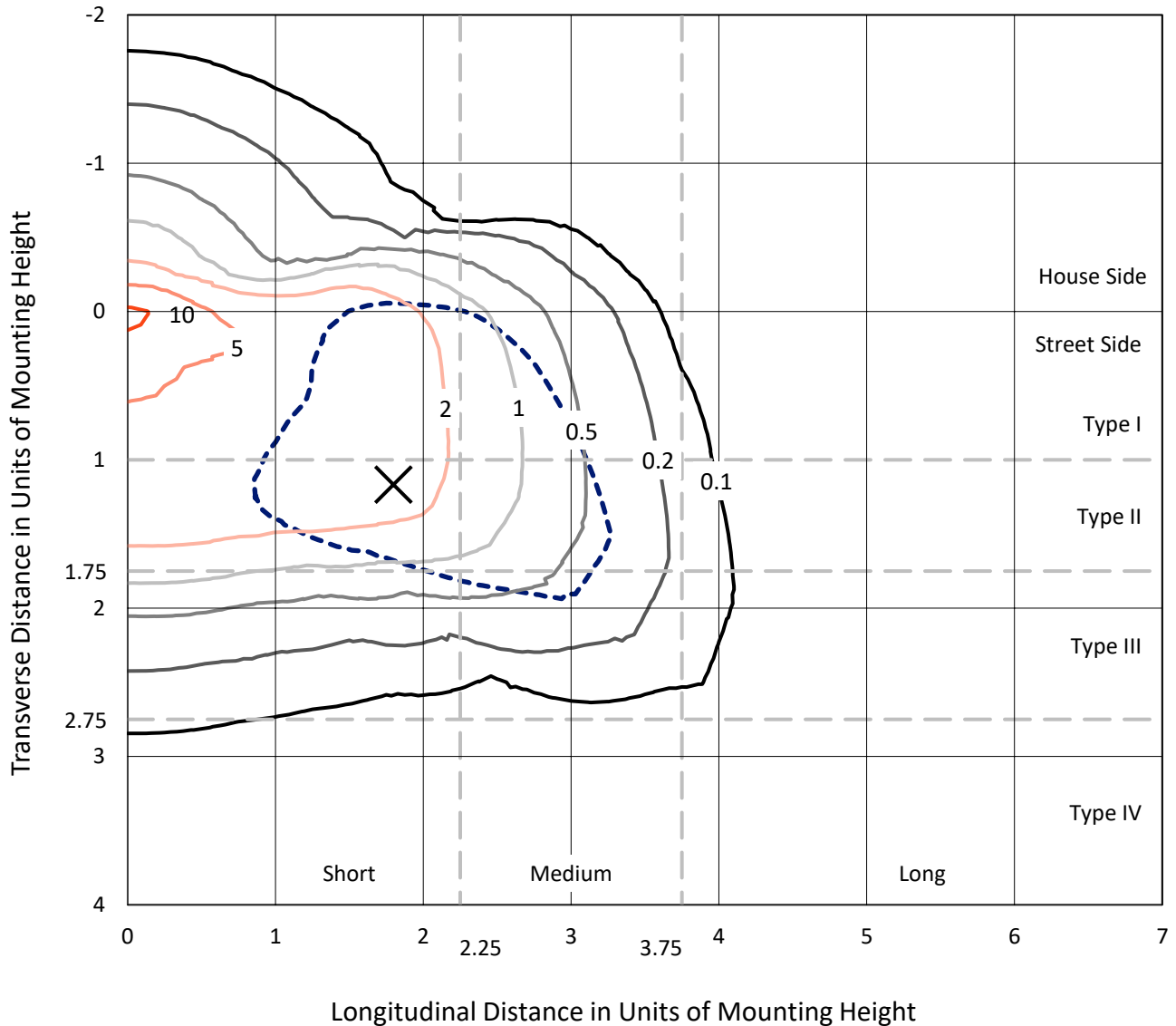
Lumens per Lamp: N/A  
Luminaire Lumens: 24898.2 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8  
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

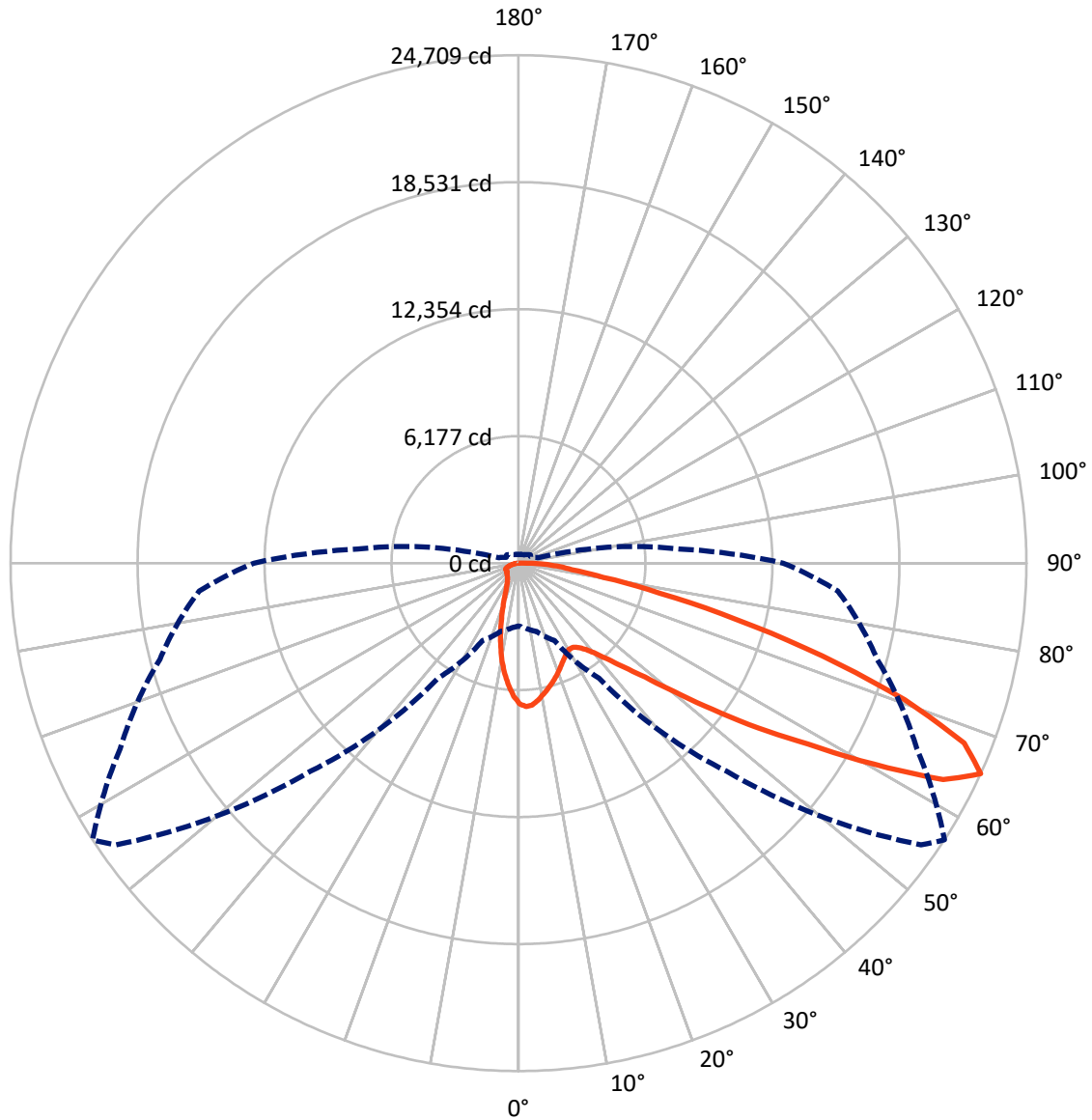
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3818.4	0.0	3818.4
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	21079.8	0.0	21079.8
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	24898.2	0.0	24898.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	573.3	2.3
10°-20°	1234.0	5.0
20°-30°	1595.4	6.4
30°-40°	2146.9	8.6
40°-50°	3423.3	13.7
50°-60°	6046.3	24.3
60°-70°	6651.8	26.7
70°-80°	2782.5	11.2
80°-90°	444.7	1.8
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°	24898.2	100.0
0°-180°	24898.2	100.0

**Coefficient of Utilization**



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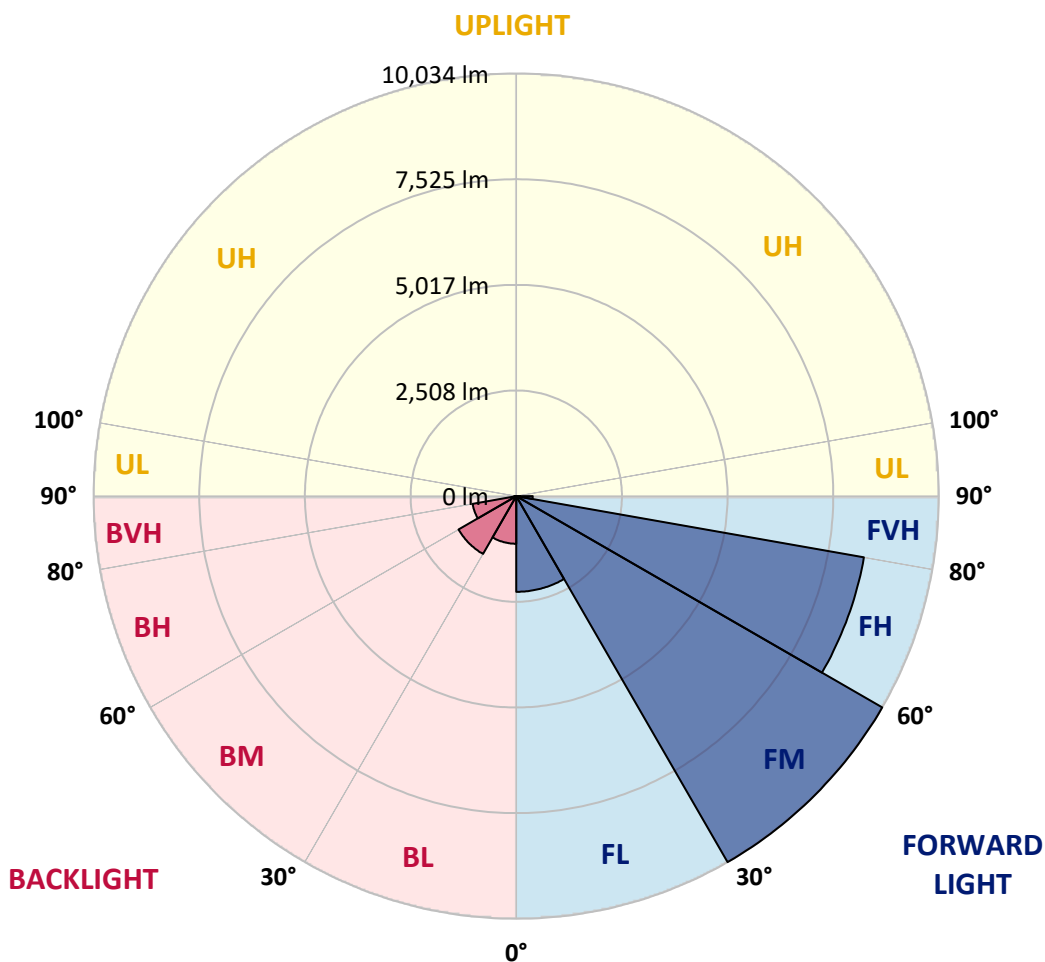
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2271.9	9.1			
FM (30°-60°)	10033.9	40.3			
FH (60°-80°)	8381.5	33.7			G4/12000
FVH (80°-90°)	392.5	1.6			G3/500
BL (0°-30°)	1130.8	4.5	B3/2500		
BM (30°-60°)	1582.5	6.4	B2/2500		
BH (60°-80°)	1052.8	4.2	B3/2500		G3/2500
BVH (80°-90°)	52.2	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6846.7	6846.7	6846.7	6846.7	6846.7	6846.7	6846.7	6846.7	6846.7	6846.7	6846.7
2.5°	7031.5	7042.8	7042.8	7065.2	6989.5	7025.9	7020.3	6986.7	6997.9	6939.1	6880.3
5°	6832.6	6824.2	6869.1	6874.7	6933.5	6950.3	6964.3	6941.9	6947.5	6818.6	6762.6
7.5°	6322.8	6320.0	6395.6	6460.1	6583.3	6698.2	6773.8	6751.4	6782.2	6701.0	6569.3
10°	5717.7	5782.1	5860.6	5925.0	6151.9	6297.6	6493.7	6513.3	6630.9	6611.3	6373.2
12.5°	5263.9	5291.9	5350.7	5535.6	5742.9	5983.8	6264.0	6289.2	6404.0	6460.1	6252.8
15°	4891.3	4916.5	4992.1	5129.4	5361.9	5647.6	6003.4	6067.9	6297.6	6317.2	6095.9
17.5°	4619.5	4639.1	4689.6	4826.8	5017.3	5384.3	5720.5	5835.3	6137.9	6233.1	5933.4
20°	4513.1	4471.1	4499.1	4585.9	4776.4	5059.4	5493.6	5594.4	5981.0	6168.7	5779.3
22.5°	4465.5	4429.0	4445.8	4440.2	4591.5	4793.2	5249.8	5356.3	5832.5	6093.1	5642.0
25°	4501.9	4501.9	4485.1	4471.1	4487.9	4619.5	4986.5	5151.8	5633.6	6028.6	5502.0
27.5°	4698.0	4622.3	4630.7	4571.9	4555.1	4555.1	4868.9	4966.9	5569.2	5992.2	5387.1
30°	4824.0	4860.5	4863.3	4776.4	4689.6	4532.7	4759.6	4854.8	5516.0	6037.0	5319.9
32.5°	5146.2	5129.4	5081.8	5065.0	4936.1	4759.6	4812.8	4877.3	5485.2	6137.9	5339.5
35°	5468.4	5460.0	5462.8	5454.3	5319.9	5059.4	4955.7	5042.5	5541.2	6314.4	5406.7
37.5°	5801.7	5824.1	5919.4	5919.4	5776.5	5493.6	5356.3	5331.1	5745.7	6602.9	5566.4
40°	6135.1	6191.1	6311.6	6502.1	6300.4	6037.0	5815.7	5776.5	5992.2	6989.5	5950.2
42.5°	6454.5	6546.9	6785.0	7068.0	7000.7	6737.4	6443.2	6398.4	6499.3	7563.8	6485.3
45°	6863.5	6941.9	7317.3	7751.5	7844.0	7611.4	7266.9	7230.4	7224.8	8404.2	7222.0
47.5°	7485.4	7569.4	7944.8	8381.8	8667.6	8704.0	8317.4	8278.2	8143.7	9538.8	8300.6
50°	8264.2	8401.4	8718.0	9227.9	9642.5	10031.9	9922.6	9807.7	9544.4	10858.3	9667.7
52.5°	8832.9	9000.9	9429.6	10082.3	10813.5	11432.6	11824.8	11824.8	11219.7	12306.6	11312.1
55°	8984.1	9085.0	9625.7	10569.7	11822.0	13387.9	14208.8	14147.1	13214.3	13830.6	13225.5
57.5°	8381.8	8513.5	9169.0	10157.9	12351.4	15217.3	16576.0	16590.0	15393.8	15601.1	15113.6
60°	6723.4	6765.4	7538.6	8860.9	11841.6	16690.8	19808.8	19862.0	17873.0	17178.3	16074.5
62.5°	4647.5	4782.0	5364.7	6524.5	9810.5	16525.5	22926.8	23190.1	19859.2	18010.3	16225.8
65°	3059.1	3140.4	3451.3	4157.3	6829.8	14323.6	23896.0	24708.5	21377.6	18057.9	15592.7
67.5°	2218.7	2232.7	2325.2	2689.4	4104.1	10300.8	22240.4	23386.2	21946.3	17660.1	14107.9
70°	1792.9	1804.1	1837.7	2070.2	2650.1	6446.0	18139.1	19934.8	20240.2	15774.8	11362.5
72.5°	1456.7	1470.7	1512.8	1731.3	2185.1	3585.8	13264.7	15452.6	16463.9	11670.7	7552.6
75°	1145.8	1157.0	1257.8	1473.5	2053.4	2462.4	8799.2	10942.3	11079.6	6821.4	3535.4
77.5°	784.4	804.0	927.3	1249.4	1933.0	2154.3	5485.2	7009.1	6289.2	2669.7	1215.8
80°	498.7	526.7	599.5	946.9	1708.9	2056.2	3412.1	4185.3	2753.8	913.3	585.5
82.5°	294.1	322.2	395.0	613.5	1341.9	1907.8	2403.6	2619.3	1291.5	467.8	353.0
85°	162.5	182.1	238.1	369.8	787.2	1694.9	1924.6	1879.7	739.6	249.3	221.3
87.5°	53.2	61.6	86.8	148.5	325.0	798.4	1154.2	1084.1	383.8	114.9	86.8
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°	6846.7	6846.7	6846.7	6846.7	6846.7	6846.7	6846.7	6846.7	6846.7	6846.7	6846.7
2.5°	6841.0	6832.6	6706.6	6611.3	6448.9	6314.4	6261.2	6188.3	6185.5	6132.3	6118.3
5°	6675.8	6588.9	6395.6	6210.7	5922.2	5728.9	5552.4	5429.1	5378.7	5269.5	5244.2
7.5°	6462.9	6348.0	6051.1	5703.7	5364.7	5062.2	4787.6	4513.1	4359.0	4305.8	4246.9
10°	6241.5	6039.8	5600.0	5210.6	4737.2	4272.2	3840.7	3454.1	3244.0	3095.6	3031.1
12.5°	6065.1	5796.1	5235.8	4653.1	4028.4	3406.5	2905.1	2498.9	2260.7	2148.7	2098.3
15°	5866.2	5510.4	4838.0	4101.3	3322.5	2616.5	2126.3	1806.9	1711.7	1658.4	1650.0
17.5°	5656.1	5244.2	4406.6	3557.8	2633.3	1969.4	1652.8	1524.0	1481.9	1459.5	1448.3
20°	5460.0	5006.1	3964.0	2952.7	2061.8	1580.0	1431.5	1364.3	1361.5	1372.7	1369.9
22.5°	5182.6	4695.2	3527.0	2392.4	1647.2	1375.5	1280.2	1263.4	1280.2	1294.3	1299.9
25°	5025.7	4440.2	3039.5	1899.4	1361.5	1221.4	1190.6	1185.0	1210.2	1227.0	1224.2
27.5°	4863.3	4176.9	2585.7	1521.2	1193.4	1112.2	1106.6	1112.2	1137.4	1162.6	1159.8
30°	4737.2	3966.8	2159.9	1271.8	1064.5	1033.7	1028.1	1033.7	1047.7	1050.5	1050.5
32.5°	4633.5	3717.5	1798.5	1103.8	986.1	960.9	966.5	963.7	966.5	969.3	972.1
35°	4571.9	3569.0	1501.6	1000.1	921.7	902.1	899.3	890.8	893.7	896.5	893.7
37.5°	4703.6	3496.2	1266.2	927.3	876.8	860.0	854.4	848.8	840.4	840.4	840.4
40°	4902.5	3456.9	1123.4	879.6	843.2	823.6	806.8	801.2	801.2	804.0	806.8
42.5°	5297.5	3521.4	1025.3	843.2	801.2	778.8	762.0	764.8	773.2	781.6	776.0
45°	5869.0	3717.5	980.5	815.2	776.0	745.2	734.0	731.2	739.6	753.6	764.8
47.5°	6616.9	4022.8	963.7	790.0	759.2	717.2	703.2	711.6	722.8	742.4	734.0
50°	7841.2	4709.2	977.7	767.6	734.0	703.2	686.3	677.9	686.3	700.4	706.0
52.5°	9440.8	5955.8	1030.9	756.4	717.2	691.9	663.9	649.9	658.3	669.5	669.5
55°	11354.1	7659.1	1179.4	742.4	689.1	675.1	644.3	616.3	621.9	621.9	619.1
57.5°	13040.6	8944.9	1355.9	722.8	672.3	652.7	613.5	579.9	574.3	577.1	579.9
60°	13797.0	9286.7	1439.9	717.2	672.3	624.7	571.5	537.9	529.5	523.9	523.9
62.5°	13665.3	8695.6	1269.0	691.9	689.1	602.3	532.3	495.8	484.6	473.4	476.2
65°	12869.7	7852.4	1000.1	658.3	691.9	588.3	493.0	456.6	437.0	423.0	420.2
67.5°	11415.8	6703.8	792.8	633.1	663.9	563.1	459.4	417.4	400.6	386.6	381.0
70°	8930.9	5255.4	689.1	599.5	596.7	501.5	420.2	383.8	358.6	341.8	341.8
72.5°	5790.5	3322.5	591.1	532.3	515.5	420.2	364.2	341.8	322.2	308.2	308.2
75°	2622.1	1543.6	476.2	445.4	420.2	336.2	308.2	296.9	280.1	266.1	266.1
77.5°	941.3	658.3	355.8	350.2	313.8	260.5	249.3	240.9	229.7	215.7	215.7
80°	526.7	417.4	266.1	254.9	218.5	193.3	179.3	179.3	173.7	165.3	162.5
82.5°	333.4	271.7	196.1	170.9	142.9	128.9	123.3	120.5	117.7	106.5	103.7
85°	210.1	184.9	128.9	100.9	84.0	64.4	61.6	58.8	53.2	47.6	47.6
87.5°	95.2	106.5	50.4	30.8	22.4	14.0	8.4	2.8	0.0	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)