

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: P480122

Luminaire Tested: **IFLD-S-SA6B-740-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480122
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-740-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

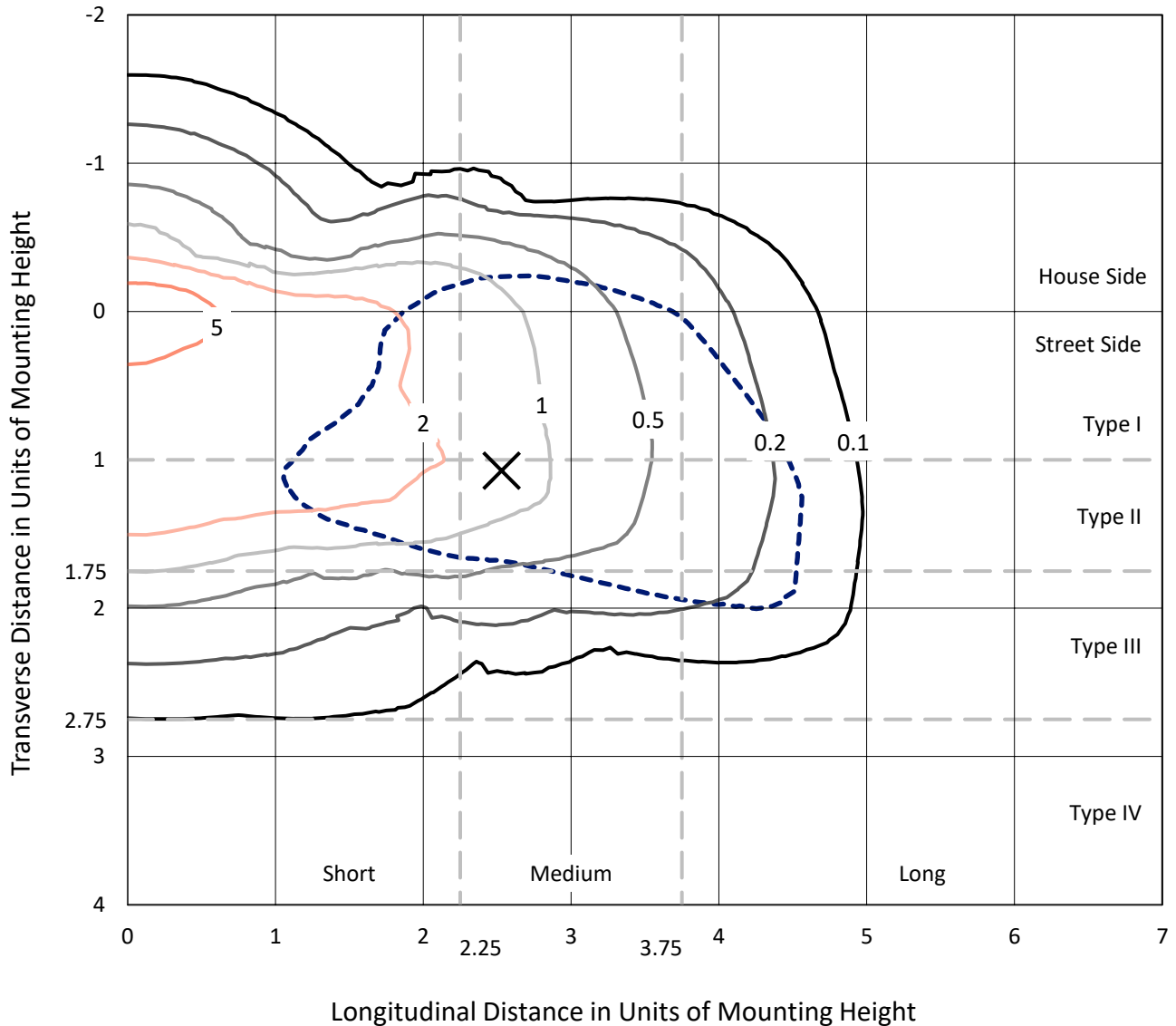
Lumens per Lamp: N/A
Luminaire Lumens: 33281.5 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 244.9
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

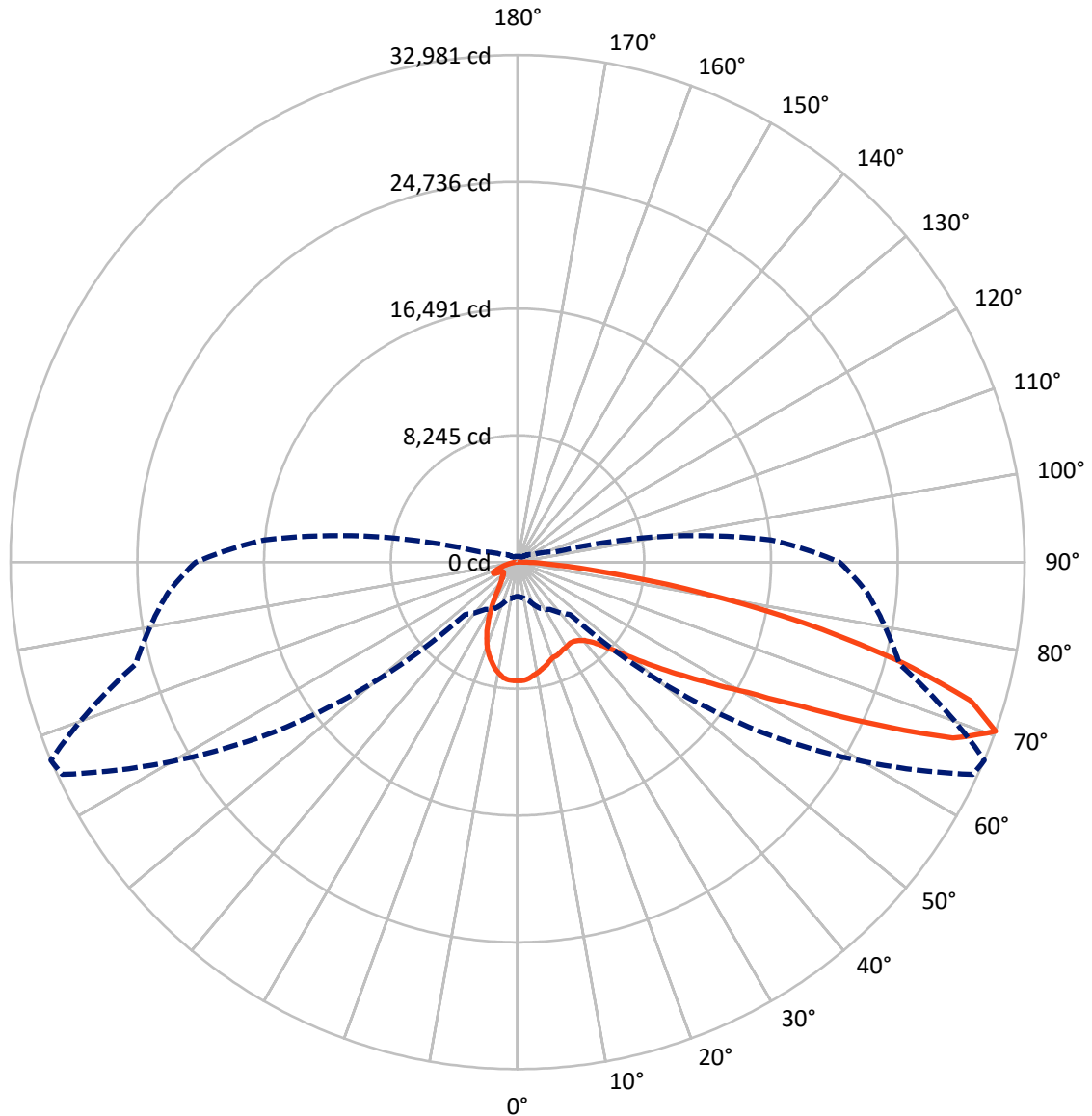
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6481.9	0.0	6481.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	26799.6	0.0	26799.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	33281.5	0.0	33281.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	672.2	2.0
10°-20°	1610.0	4.8
20°-30°	2174.2	6.5
30°-40°	2909.2	8.7
40°-50°	4278.0	12.9
50°-60°	6668.3	20.0
60°-70°	8214.2	24.7
70°-80°	5804.1	17.4
80°-90°	951.3	2.9
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°	33281.5	100.0
0°-180°	33281.5	100.0

Coefficient of Utilization



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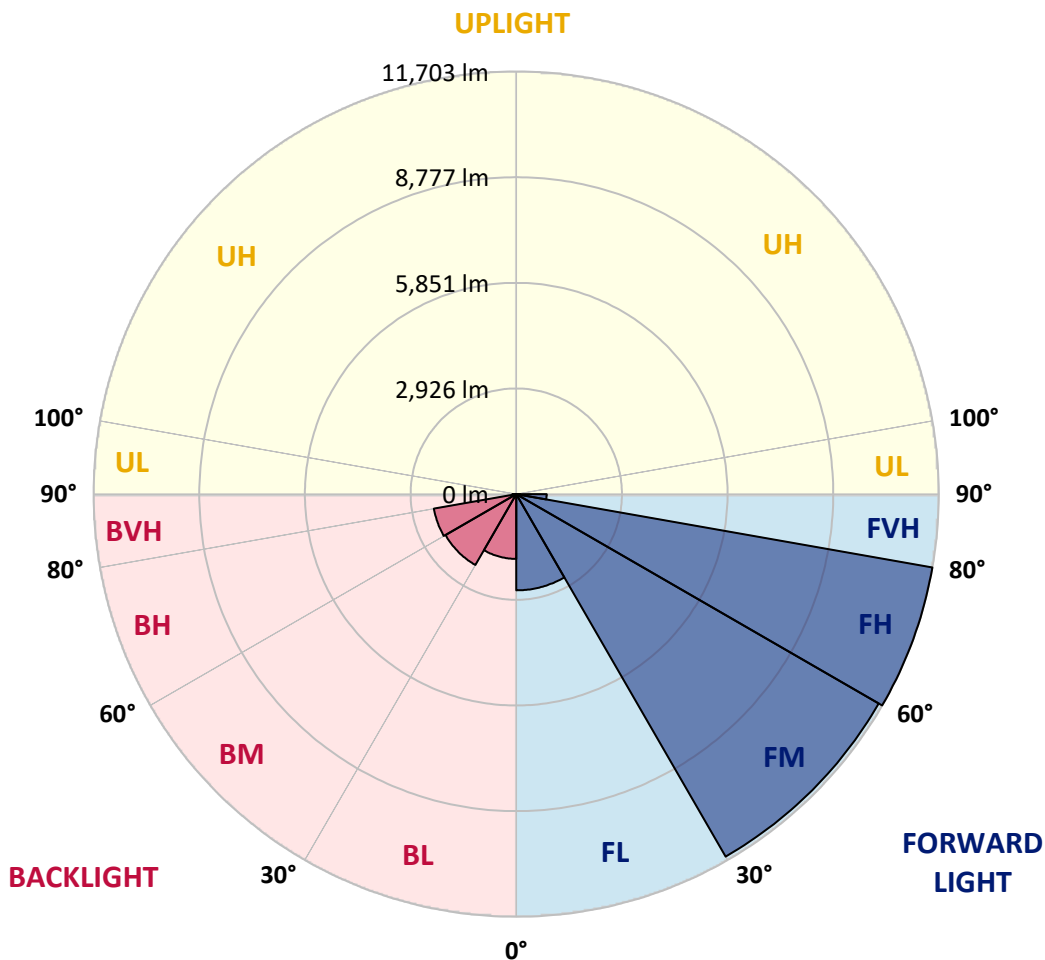
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2663.9	8.0			
FM (30°-60°)	11591.2	34.8			
FH (60°-80°)	11702.9	35.2			G4/12000
FVH (80°-90°)	841.6	2.5			G5
BL (0°-30°)	1792.5	5.4	B3/2500		
BM (30°-60°)	2264.3	6.8	B2/2500		
BH (60°-80°)	2315.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	109.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7704.6	7704.6	7704.6	7704.6	7704.6	7704.6	7704.6	7704.6	7704.6	7704.6	7704.6
2.5°	7174.0	7255.0	7284.5	7328.7	7442.9	7527.7	7579.3	7638.2	7708.2	7767.2	7804.0
5°	6672.9	6717.1	6787.1	6835.0	6978.7	7207.1	7361.9	7612.4	7605.1	7697.2	7837.2
7.5°	6186.5	6230.7	6263.9	6359.7	6566.0	6772.3	7056.1	7461.4	7431.9	7645.6	7863.0
10°	5884.3	5851.2	5862.2	6024.4	6186.5	6418.6	6776.0	7188.7	7295.6	7627.2	7936.7
12.5°	5600.6	5563.8	5652.2	5755.4	5954.4	6164.4	6591.8	6963.9	7126.1	7560.9	7969.8
15°	5423.8	5398.0	5508.5	5552.7	5788.5	6039.1	6341.2	6794.5	6971.3	7479.8	7918.3
17.5°	5324.3	5346.4	5386.9	5482.7	5633.8	5847.5	6179.1	6680.2	6757.6	7380.3	7907.2
20°	5342.7	5368.5	5372.2	5412.7	5515.9	5681.7	6020.7	6558.6	6610.2	7361.9	7936.7
22.5°	5490.1	5453.2	5468.0	5442.2	5471.7	5600.6	5899.1	6396.5	6595.5	7207.1	7874.0
25°	5711.2	5659.6	5652.2	5563.8	5508.5	5545.4	5877.0	6356.0	6484.9	7159.2	7870.4
27.5°	6101.7	6024.4	6024.4	5891.7	5667.0	5608.0	5814.3	6289.7	6403.9	7115.0	7785.6
30°	6477.6	6477.6	6481.3	6293.3	6042.8	5751.7	5840.1	6263.9	6337.6	6982.4	7671.4
32.5°	6934.5	6923.4	6905.0	6812.9	6426.0	5991.2	5965.4	6230.7	6267.5	6938.2	7638.2
35°	7380.3	7350.8	7494.5	7413.5	7019.2	6459.2	6094.4	6245.4	6326.5	6871.8	7535.1
37.5°	7715.6	7734.0	8032.5	8084.1	7745.1	6989.7	6459.2	6392.8	6470.2	6967.6	7535.1
40°	8150.4	8224.1	8504.1	8677.3	8471.0	7689.8	7037.6	6639.7	6695.0	7181.3	7697.2
42.5°	8721.5	8784.1	9141.6	9366.3	9307.4	8581.5	7608.8	7155.5	7111.3	7538.7	7940.4
45°	9476.9	9487.9	9849.0	10158.5	10280.1	9513.7	8515.2	7807.7	7770.9	8154.1	8386.2
47.5°	10375.9	10364.9	10589.6	10921.2	11249.2	10626.5	9557.9	8798.9	8666.2	9034.7	9126.8
50°	11245.5	11197.6	11249.2	11672.9	12303.0	12019.3	10825.4	10011.1	9878.5	10081.1	10239.6
52.5°	11724.5	11783.4	11643.4	12203.5	13423.1	13666.3	12505.6	11459.2	11345.0	11444.5	11720.8
55°	11389.2	11510.8	11418.7	11949.2	13913.1	15674.4	14679.6	13135.7	12988.3	12951.5	13404.7
57.5°	9963.2	10184.3	10202.7	11042.8	13743.7	17229.3	17737.8	15114.3	14893.3	14517.4	14985.4
60°	7649.3	7870.4	8039.9	9034.7	12291.9	18157.8	21282.4	17929.4	17199.8	16227.1	16507.1
62.5°	5361.1	5512.2	5681.7	6293.3	9476.9	17612.5	24348.0	21894.1	20549.2	18028.9	18378.9
65°	3905.7	4023.6	4196.8	4557.9	5821.7	14572.7	25770.3	26603.0	25328.1	20320.7	20276.5
67.5°	2940.3	3014.0	3242.5	3821.0	4034.7	9001.5	24296.4	31577.2	30545.6	22866.8	21801.9
70°	2225.5	2288.2	2501.9	3294.1	3769.4	4826.9	19167.4	32686.3	32981.1	25722.4	22826.3
72.5°	1532.8	1602.8	1842.3	2745.0	3588.8	3828.3	12030.3	29694.4	30810.8	26897.8	21728.2
75°	939.6	987.5	1127.5	2081.8	3563.0	3743.6	6621.3	24333.3	25516.0	24852.8	19009.0
77.5°	663.2	659.5	685.3	1219.6	3087.7	3765.7	4082.6	17829.9	18979.5	18316.3	12899.9
80°	482.7	486.4	512.2	729.6	2096.6	3828.3	3216.7	11941.9	12284.5	9550.6	5088.5
82.5°	291.1	305.8	368.5	493.7	1260.1	3456.2	2973.5	6636.0	6208.6	3065.6	1400.2
85°	154.8	154.8	217.4	313.2	670.6	2579.2	2863.0	3157.7	2645.6	950.6	519.5
87.5°	36.8	36.8	62.6	125.3	269.0	1234.3	1952.9	1256.5	1005.9	320.6	213.7
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°	7704.6	7704.6	7704.6	7704.6	7704.6	7704.6	7704.6	7704.6	7704.6	7704.6	7704.6
2.5°	7789.3	7745.1	7800.4	7689.8	7601.4	7605.1	7468.7	7461.4	7442.9	7347.1	7380.3
5°	7877.7	7840.9	7778.2	7656.7	7461.4	7266.1	7148.2	6997.1	6934.5	6901.3	6916.0
7.5°	7962.5	7896.2	7715.6	7546.1	7244.0	6875.5	6661.8	6459.2	6201.2	6171.7	6120.2
10°	7984.6	7844.6	7612.4	7251.3	6849.7	6440.7	5954.4	5578.5	5379.6	5224.8	5165.8
12.5°	7951.4	7892.5	7446.6	6982.4	6374.4	5733.3	5165.8	4635.3	4266.8	4075.2	4023.6
15°	7947.7	7844.6	7262.4	6573.4	5795.9	4959.5	4152.6	3515.1	3128.2	2969.8	2969.8
17.5°	7951.4	7704.6	7045.0	6160.7	5114.3	3983.1	3095.1	2571.9	2358.2	2336.1	2354.5
20°	7877.7	7601.4	6816.6	5674.3	4259.4	2991.9	2247.6	2033.9	2033.9	2063.4	2074.4
22.5°	7811.4	7446.6	6455.5	5073.7	3389.9	2166.6	1827.6	1764.9	1834.9	1886.5	1908.6
25°	7719.3	7317.7	6087.0	4451.0	2579.2	1746.5	1588.1	1602.8	1669.1	1761.3	1753.9
27.5°	7586.6	7092.9	5648.5	3728.8	1919.7	1507.0	1466.5	1473.9	1543.9	1584.4	1577.0
30°	7435.6	6864.5	5243.2	3010.3	1521.8	1381.7	1378.1	1396.5	1407.5	1429.6	1426.0
32.5°	7244.0	6562.3	4812.1	2339.7	1370.7	1311.7	1297.0	1285.9	1297.0	1293.3	1282.3
35°	7107.6	6400.2	4373.7	1783.4	1285.9	1249.1	1238.0	1219.6	1204.9	1182.8	1179.1
37.5°	7070.8	6238.1	3913.1	1455.4	1219.6	1201.2	1164.3	1131.2	1112.8	1101.7	1094.3
40°	7048.7	6131.2	3463.5	1278.6	1164.3	1145.9	1101.7	1057.5	1039.1	1028.0	1031.7
42.5°	7126.1	6072.3	3006.7	1190.1	1116.4	1083.3	1035.4	983.8	980.1	972.7	983.8
45°	7398.7	6146.0	2582.9	1127.5	1068.5	1013.3	950.6	924.8	921.2	913.8	921.2
47.5°	8017.7	6330.2	2221.8	1087.0	1017.0	969.1	902.7	865.9	862.2	858.5	858.5
50°	8872.6	6897.6	1919.7	1039.1	983.8	917.5	854.8	814.3	806.9	792.2	792.2
52.5°	10213.8	7851.9	1739.1	1013.3	924.8	869.6	803.2	759.0	740.6	725.9	725.9
55°	11724.5	9034.7	1706.0	969.1	862.2	810.6	751.7	707.4	689.0	670.6	663.2
57.5°	13445.2	10600.7	1941.8	939.6	818.0	751.7	685.3	644.8	630.1	611.6	604.3
60°	15048.0	12163.0	2675.0	895.4	777.5	696.4	630.1	589.5	571.1	552.7	552.7
62.5°	16901.4	14097.4	3916.8	895.4	740.6	637.4	571.1	541.6	530.6	512.2	508.5
65°	19093.7	16098.1	4823.2	950.6	729.6	585.9	515.8	486.4	475.3	464.3	460.6
67.5°	20762.9	17247.7	4148.9	1098.0	777.5	541.6	460.6	442.2	434.8	423.7	416.4
70°	20939.7	16547.7	2501.9	1186.4	825.4	497.4	412.7	394.3	394.3	383.2	375.8
72.5°	19351.7	14683.2	1683.9	1057.5	748.0	445.8	364.8	350.0	342.7	335.3	331.6
75°	16193.9	12454.0	1330.2	843.8	574.8	368.5	316.9	302.1	291.1	287.4	280.0
77.5°	10877.0	8095.1	983.8	659.5	423.7	298.5	265.3	250.6	239.5	235.8	224.8
80°	4178.4	3084.0	633.8	479.0	298.5	235.8	210.0	195.3	187.9	176.9	169.5
82.5°	1230.7	998.5	353.7	294.8	191.6	162.1	151.1	140.0	129.0	117.9	114.2
85°	508.5	456.9	217.4	154.8	117.9	95.8	88.4	77.4	66.3	59.0	51.6
87.5°	235.8	195.3	99.5	59.0	40.5	22.1	11.1	3.7	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)