

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: P480785

Luminaire Tested: **IFLD-S-SA6B-727-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480785
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-727-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

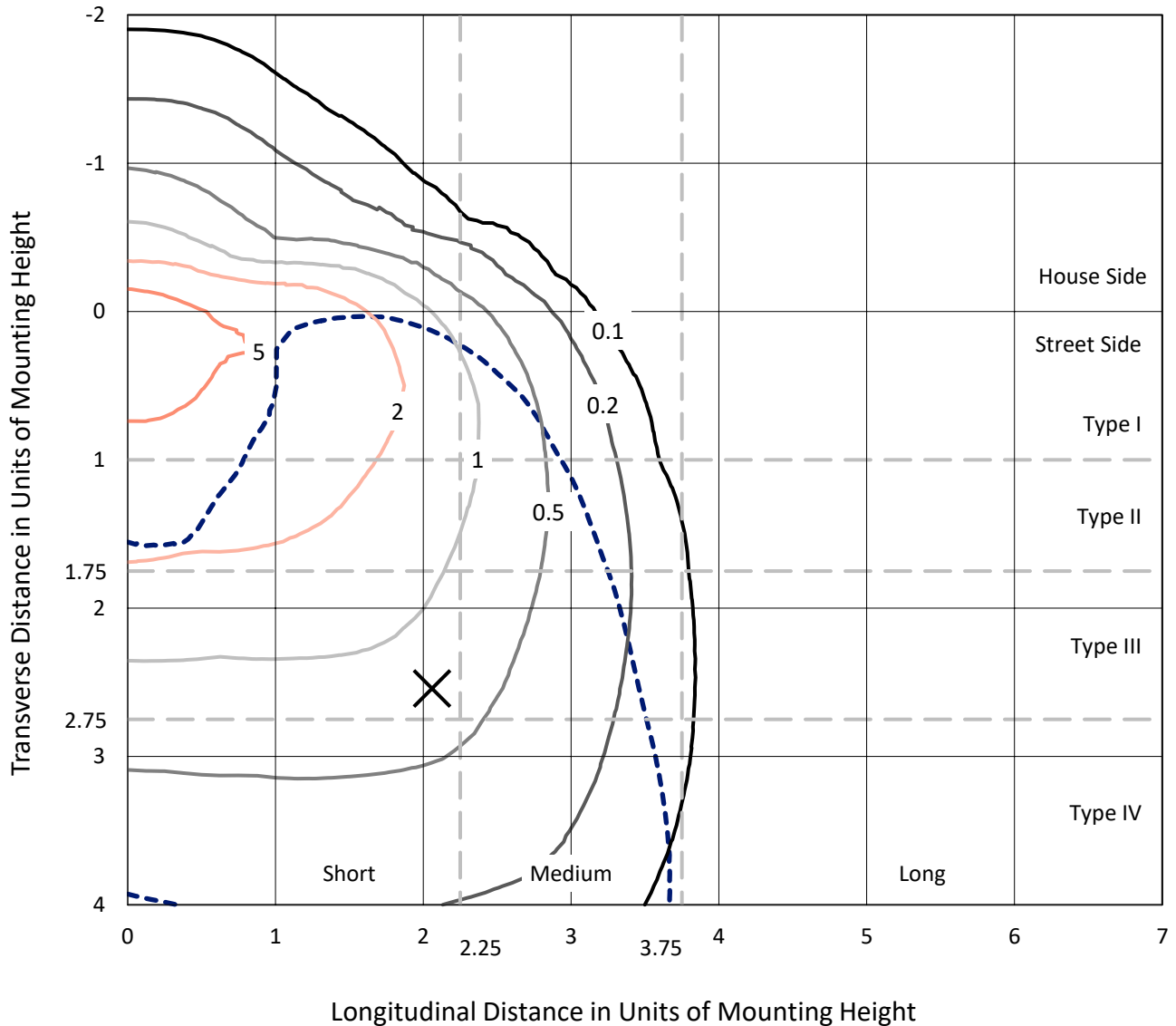
Lumens per Lamp: N/A
Luminaire Lumens: 27002 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

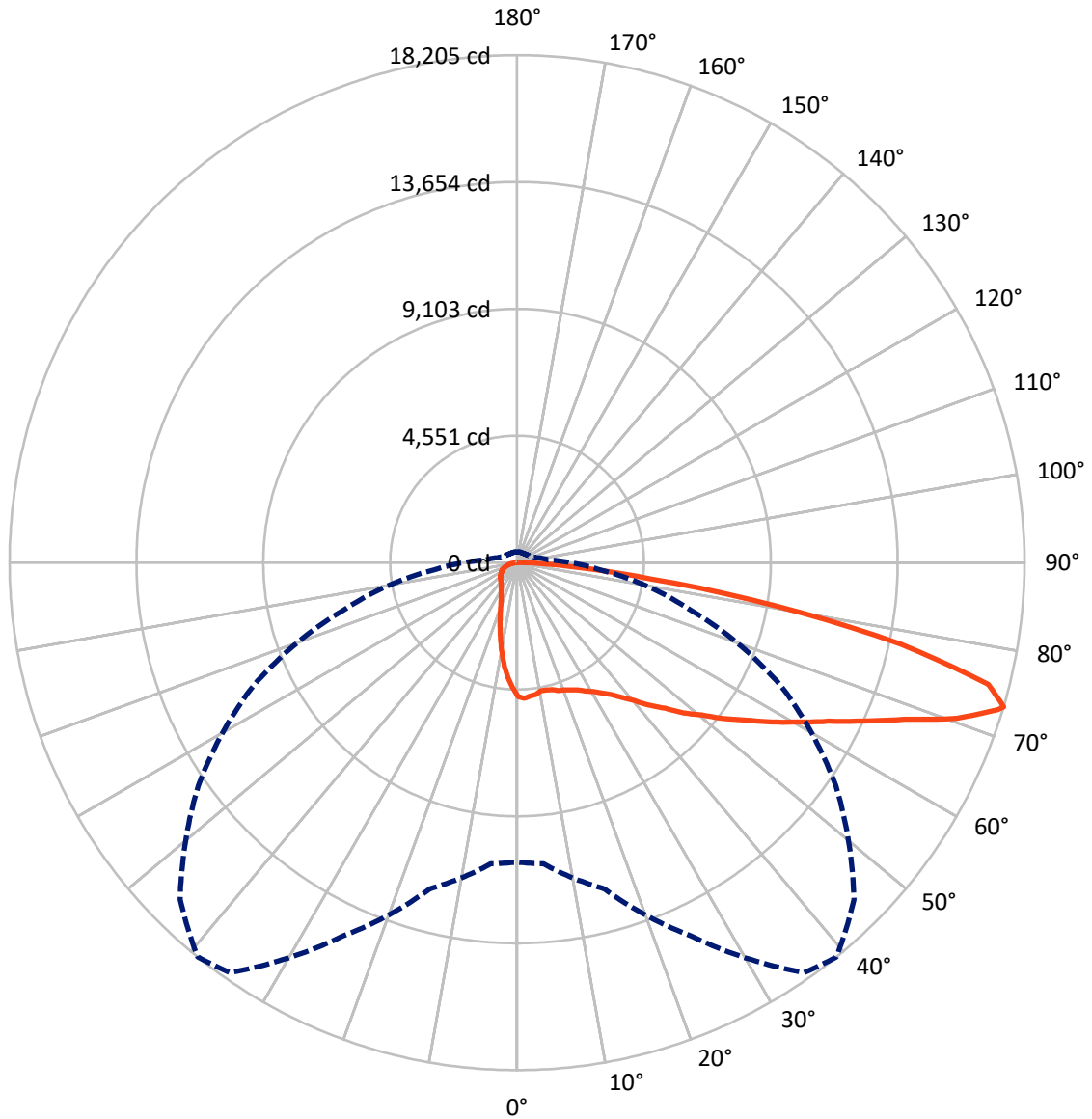
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	3795.7	0.0	3795.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	23206.3	0.0	23206.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	27002.0	0.0	27002.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.2	1.5
10°-20°	1060.7	3.9
20°-30°	1620.9	6.0
30°-40°	2363.3	8.8
40°-50°	3571.1	13.2
50°-60°	5171.2	19.2
60°-70°	6570.3	24.3
70°-80°	5326.2	19.7
80°-90°	901.2	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°	27002.0	100.0
0°-180°	27002.0	100.0

Coefficient of Utilization



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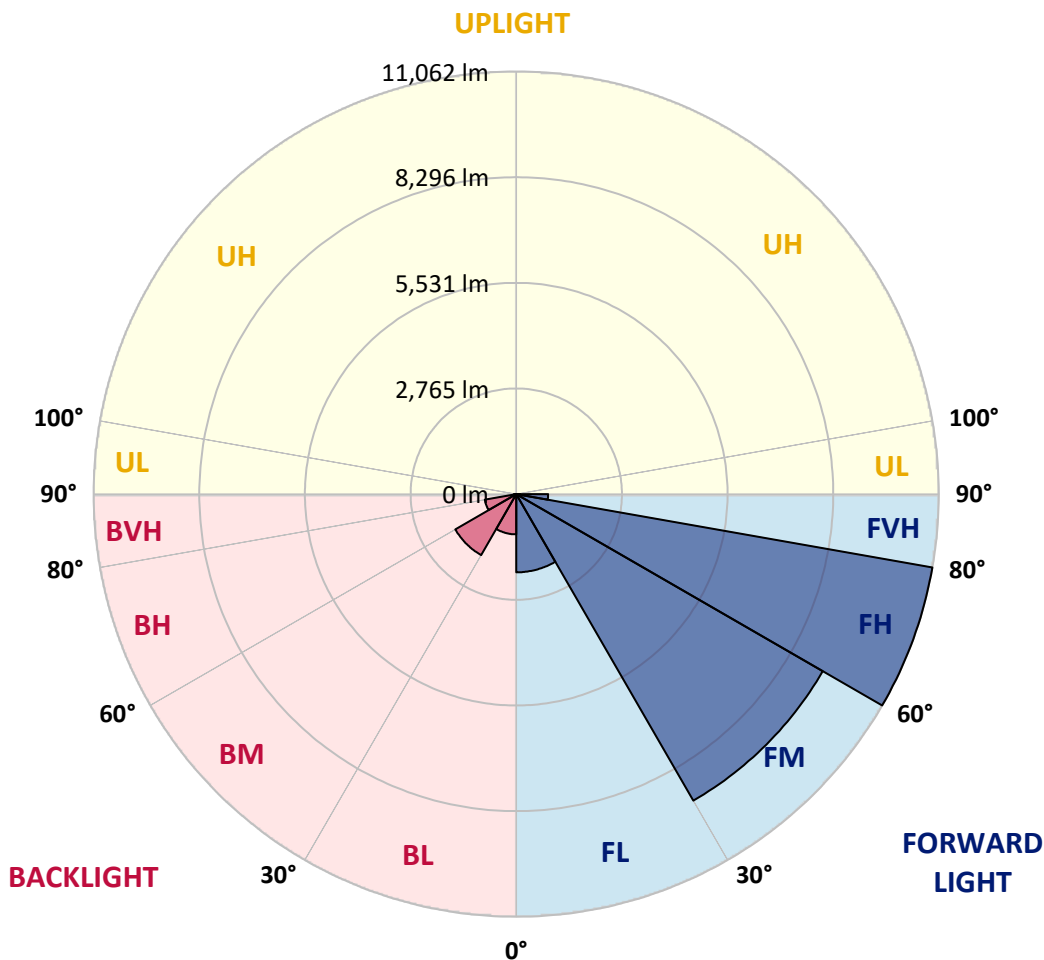
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2046.2	7.6			
FM (30°-60°)	9263.4	34.3			
FH (60°-80°)	11061.7	41.0			G4/12000
FVH (80°-90°)	835.1	3.1			G5
BL (0°-30°)	1052.6	3.9	B3/2500		
BM (30°-60°)	1842.2	6.8	B2/2500		
BH (60°-80°)	834.8	3.1	B2/1000		G2/1000
BVH (80°-90°)	66.1	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°	4806.5	4806.5	4806.5	4806.5	4806.5	4806.5	4806.5	4806.5	4806.5	4806.5	4806.5
2.5°	4921.3	4870.0	4879.0	4860.9	4879.0	4873.0	4863.9	4818.6	4863.9	4818.6	4806.5
5°	4854.9	4854.9	4885.1	4839.8	4845.8	4815.6	4845.8	4812.6	4782.4	4706.8	4685.7
7.5°	4833.7	4830.7	4833.7	4770.3	4800.5	4782.4	4752.1	4715.9	4655.5	4607.1	4537.6
10°	4688.7	4718.9	4685.7	4703.8	4728.0	4673.6	4670.6	4661.5	4634.3	4570.9	4528.6
12.5°	4610.2	4661.5	4679.6	4664.5	4685.7	4691.7	4673.6	4661.5	4628.3	4586.0	4465.1
15°	4643.4	4583.0	4634.3	4734.0	4712.9	4728.0	4731.0	4718.9	4703.8	4625.3	4546.7
17.5°	4652.5	4616.2	4725.0	4746.1	4773.3	4827.7	4791.4	4788.4	4731.0	4676.6	4561.8
20°	4673.6	4658.5	4746.1	4857.9	4860.9	4870.0	4888.1	4842.8	4812.6	4718.9	4543.7
22.5°	4752.1	4803.5	4885.1	4933.4	4960.6	4966.6	4966.6	4876.0	4842.8	4767.3	4628.3
25°	4987.8	4933.4	5048.2	5105.6	5066.3	5057.3	5036.1	4954.6	4918.3	4851.8	4667.6
27.5°	5160.0	5157.0	5223.4	5302.0	5196.2	5217.4	5141.9	5117.7	5036.1	4999.9	4737.0
30°	5395.6	5462.1	5459.1	5483.2	5344.3	5368.4	5271.8	5226.5	5181.1	5202.3	4942.5
32.5°	5697.7	5673.6	5712.8	5694.7	5555.8	5576.9	5462.1	5392.6	5407.7	5471.2	5223.4
35°	5891.1	5866.9	5882.0	5882.0	5839.7	5815.6	5767.2	5676.6	5749.1	5866.9	5537.6
37.5°	6099.5	6129.8	6217.4	6199.2	6144.9	6144.9	6138.8	6075.4	6169.0	6459.1	6039.1
40°	6283.8	6365.4	6419.8	6456.0	6519.5	6519.5	6570.8	6534.6	6703.8	7169.0	6652.4
42.5°	6477.2	6480.2	6776.3	6803.5	6945.4	7005.9	7045.1	7075.4	7392.6	7912.2	7308.0
45°	6724.9	6740.0	6999.8	7208.3	7428.8	7450.0	7598.0	7697.7	8087.4	8724.9	8020.9
47.5°	7051.2	7033.1	7311.0	7643.3	7918.2	8063.2	8241.5	8350.2	8830.6	9607.0	8800.4
50°	7480.2	7425.8	7585.9	8108.6	8431.8	8591.9	8909.1	9090.4	9652.3	10449.9	9335.1
52.5°	8002.8	7912.2	8039.1	8610.1	8972.6	9295.8	9597.9	9800.4	10386.4	11102.4	9730.9
55°	8555.7	8368.4	8404.6	9141.8	9664.4	9969.5	10383.4	10594.9	11193.1	11688.5	10126.6
57.5°	9102.5	8984.7	8912.2	9652.3	10489.2	10782.2	11162.9	11437.8	11945.3	12208.2	10462.0
60°	9561.7	9531.5	9413.7	10443.8	11362.3	11613.0	12011.8	12181.0	12564.6	12688.5	10468.0
62.5°	9939.3	9836.6	10023.9	11081.3	12250.4	12534.4	12972.5	12987.6	13259.5	12987.6	10159.9
65°	10235.4	10241.4	10540.5	11851.7	13277.6	13697.5	14051.0	14011.7	13836.5	12809.3	9431.8
67.5°	10504.3	10619.1	11057.1	12697.6	14597.8	14993.6	15386.3	14866.7	13993.6	11975.5	8008.9
70°	10715.7	10830.5	11755.0	13727.8	16153.7	16733.7	16821.3	15205.1	13271.6	10144.8	6042.1
72.5°	10691.6	10900.0	12150.8	14549.5	17534.3	18035.8	17328.9	14253.4	11057.1	7072.3	3525.6
73°	10742.9	10845.6	12117.5	14779.1	17954.2	18205.0	17093.2	13954.3	10428.7	6344.3	2981.8
75°	9752.0	10099.4	11516.3	14404.5	17504.1	17458.8	15739.8	11628.1	7413.7	3332.2	1444.1
77.5°	7214.3	7434.9	9075.3	11845.6	14368.2	14078.2	11872.8	7431.8	3519.5	1235.6	779.4
80°	3525.6	3697.8	4809.5	6839.7	9395.5	9419.7	7368.4	3867.0	1507.5	697.9	531.7
82.5°	1761.3	1864.0	2311.1	3006.0	4622.2	4842.8	3737.1	2199.3	933.5	395.8	302.1
85°	1151.0	1223.5	1422.9	1471.3	1960.7	2069.4	1740.1	1716.0	607.2	214.5	244.7
87.5°	764.3	776.4	873.1	743.2	785.5	755.3	839.9	1081.5	178.2	90.6	66.5
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°	4806.5	4806.5	4806.5	4806.5	4806.5	4806.5	4806.5	4806.5	4806.5	4806.5	4806.5
2.5°	4791.4	4749.1	4703.8	4640.4	4595.1	4525.6	4462.1	4434.9	4428.9	4431.9	4401.7
5°	4667.6	4607.1	4516.5	4386.6	4311.1	4196.3	4099.6	4048.2	3993.9	4002.9	3978.8
7.5°	4495.4	4428.9	4289.9	4138.9	3951.6	3788.4	3697.8	3570.9	3498.4	3444.0	3474.2
10°	4441.0	4326.2	4117.7	3909.3	3619.2	3404.7	3196.3	3051.3	2951.6	2854.9	2897.2
12.5°	4413.8	4299.0	4009.0	3700.8	3326.2	2999.9	2706.9	2528.6	2386.6	2302.1	2335.3
15°	4389.6	4247.6	3906.2	3471.2	3051.3	2622.3	2293.0	2057.3	1921.4	1839.8	1848.9
17.5°	4422.8	4220.4	3755.2	3247.7	2749.2	2290.0	1924.4	1679.7	1540.7	1489.4	1477.3
20°	4389.6	4190.2	3607.2	3024.1	2447.1	1972.8	1622.3	1419.9	1323.2	1280.9	1271.9
22.5°	4401.7	4117.7	3453.1	2776.4	2166.1	1706.9	1419.9	1265.8	1190.3	1169.2	1175.2
25°	4459.1	4075.4	3299.0	2504.5	1888.2	1510.5	1290.0	1172.2	1117.8	1096.6	1102.7
27.5°	4501.4	4111.7	3160.0	2247.7	1652.5	1335.3	1181.2	1102.7	1066.4	1051.3	1048.3
30°	4607.1	4132.8	3024.1	2018.1	1459.2	1220.5	1105.7	1042.3	1018.1	1009.0	1006.0
32.5°	4764.2	4172.1	2867.0	1806.6	1317.2	1111.8	1045.3	990.9	984.9	975.8	978.8
35°	5021.0	4308.0	2691.8	1625.3	1181.2	1039.2	981.8	945.6	945.6	945.6	954.7
37.5°	5389.6	4498.4	2534.7	1453.1	1093.6	975.8	927.5	915.4	909.3	918.4	924.4
40°	5863.9	4728.0	2407.8	1317.2	1018.1	933.5	891.2	885.2	882.2	879.1	885.2
42.5°	6383.5	5021.0	2299.0	1211.4	963.7	888.2	858.0	851.9	839.9	845.9	855.0
45°	6900.1	5383.5	2202.4	1126.9	927.5	864.0	821.7	818.7	812.7	809.6	824.8
47.5°	7474.1	5740.0	2172.2	1075.5	900.3	827.8	797.6	794.5	776.4	773.4	785.5
50°	7921.3	6002.9	2205.4	1051.3	861.0	800.6	779.4	764.3	749.2	734.1	734.1
52.5°	8229.4	6184.1	2229.6	1033.2	839.9	764.3	737.1	731.1	716.0	700.9	694.8
55°	8507.3	6292.9	2235.6	1036.2	818.7	722.0	703.9	700.9	691.8	667.7	661.6
57.5°	8601.0	6247.6	2114.8	1009.0	806.6	694.8	670.7	676.7	664.6	643.5	640.5
60°	8591.9	5933.4	1839.8	972.8	779.4	664.6	634.4	652.6	652.6	628.4	625.4
62.5°	8069.3	5208.3	1504.5	903.3	749.2	634.4	601.2	628.4	637.4	622.3	619.3
65°	6984.7	4241.6	1256.8	833.8	703.9	601.2	568.0	598.2	613.3	607.2	604.2
67.5°	5779.3	3244.6	1045.3	743.2	646.5	555.9	528.7	549.8	558.9	561.9	564.9
70°	4084.5	2160.1	873.1	643.5	568.0	507.5	477.3	480.4	477.3	486.4	486.4
72.5°	2220.5	1244.7	710.0	546.8	489.4	441.1	419.9	404.8	404.8	401.8	401.8
73°	1900.3	1117.8	676.7	531.7	468.3	429.0	404.8	392.7	392.7	389.7	386.7
75°	1066.4	818.7	580.0	456.2	404.8	374.6	356.5	338.4	335.3	335.3	335.3
77.5°	700.9	637.4	462.2	365.5	326.3	299.1	293.0	274.9	274.9	274.9	271.9
80°	525.7	501.5	356.5	277.9	250.7	229.6	223.6	211.5	208.5	196.4	199.4
82.5°	350.4	395.8	259.8	196.4	169.2	157.1	157.1	154.1	145.0	129.9	129.9
85°	277.9	323.3	187.3	120.8	99.7	84.6	87.6	84.6	81.6	66.5	63.4
87.5°	51.4	129.9	54.4	33.2	24.2	15.1	15.1	9.1	6.0	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)