

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: P480395

Luminaire Tested: **IFLD-S-SA6B-727-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480395
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-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

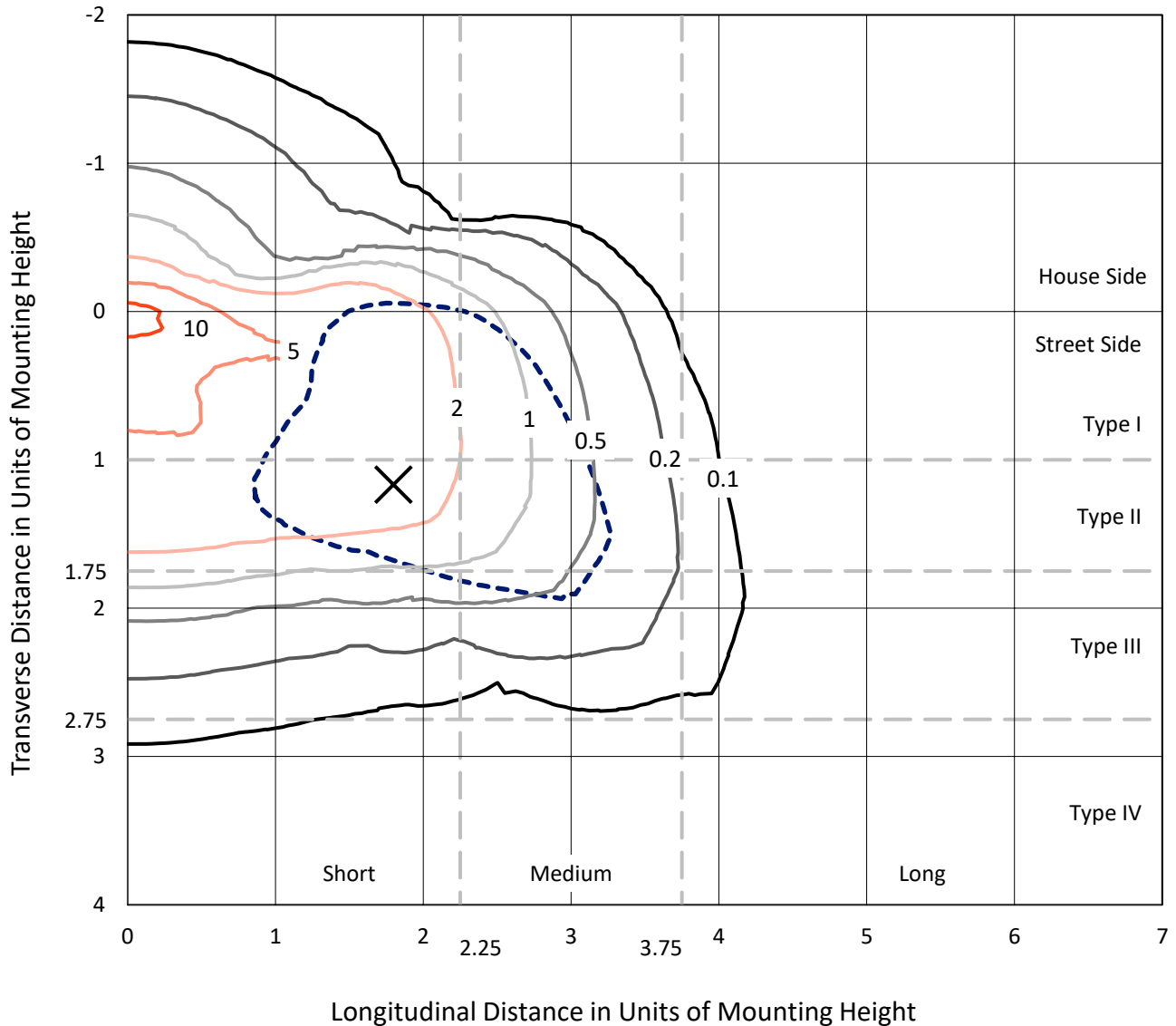
Lumens per Lamp: N/A
Luminaire Lumens: 27544.9 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

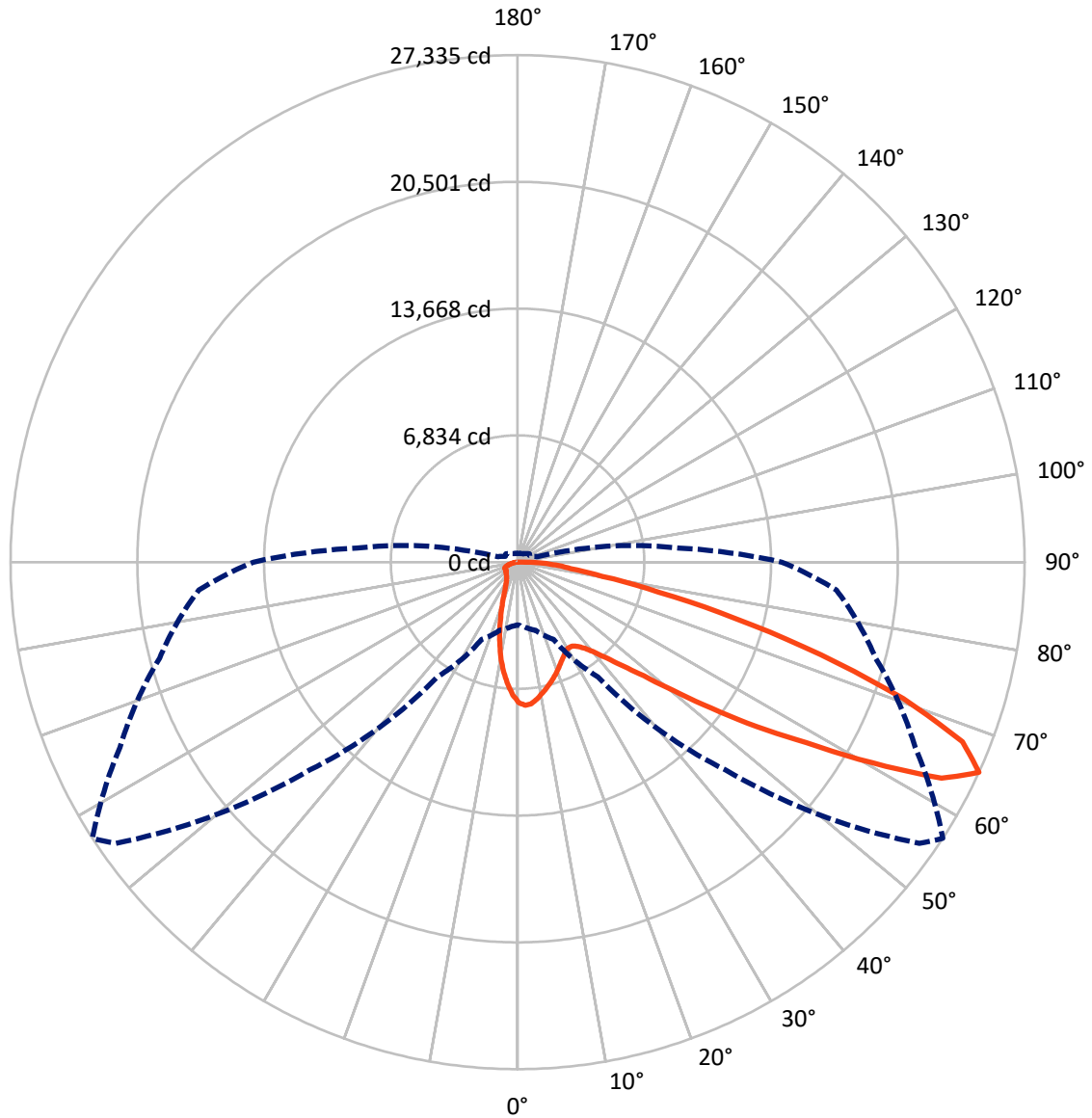
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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
House Side	Lumens	4224.3	0.0	4224.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	23320.6	0.0	23320.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	27544.9	0.0	27544.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.3	2.3
10°-20°	1365.1	5.0
20°-30°	1765.0	6.4
30°-40°	2375.1	8.6
40°-50°	3787.2	13.7
50°-60°	6689.1	24.3
60°-70°	7358.9	26.7
70°-80°	3078.3	11.2
80°-90°	492.0	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°	27544.9	100.0
0°-180°	27544.9	100.0



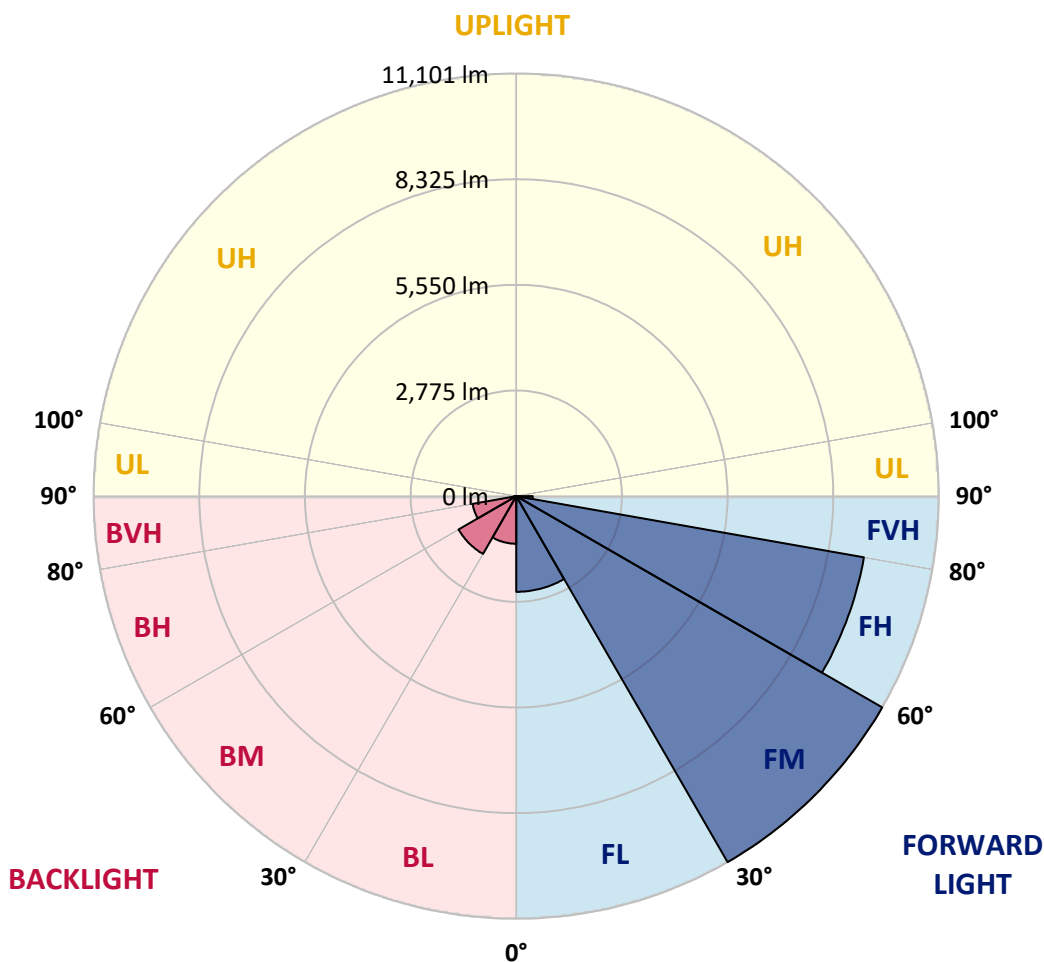
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2513.4	9.1			
FM (30°-60°)	11100.5	40.3			
FH (60°-80°)	9272.4	33.7			G4/12000
FVH (80°-90°)	434.3	1.6			G3/500
BL (0°-30°)	1251.0	4.5	B3/2500		
BM (30°-60°)	1750.8	6.4	B2/2500		
BH (60°-80°)	1164.8	4.2	B3/2500		G3/2500
BVH (80°-90°)	57.7	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°	7574.4	7574.4	7574.4	7574.4	7574.4	7574.4	7574.4	7574.4	7574.4	7574.4	7574.4
2.5°	7779.0	7791.4	7791.4	7816.2	7732.5	7772.8	7766.6	7729.4	7741.8	7676.7	7611.6
5°	7559.0	7549.7	7599.2	7605.4	7670.5	7689.1	7704.6	7679.8	7686.0	7543.5	7481.5
7.5°	6994.9	6991.8	7075.5	7146.8	7283.1	7410.2	7493.9	7469.1	7503.2	7413.3	7267.6
10°	6325.5	6396.8	6483.5	6554.8	6805.8	6967.0	7183.9	7205.6	7335.8	7314.1	7050.7
12.5°	5823.4	5854.4	5919.5	6124.0	6353.4	6619.9	6929.8	6957.7	7084.8	7146.8	6917.4
15°	5411.2	5439.1	5522.8	5674.6	5931.9	6248.0	6641.6	6712.9	6967.0	6988.7	6743.9
17.5°	5110.6	5132.3	5188.1	5339.9	5550.7	5956.7	6328.6	6455.6	6790.4	6895.7	6564.1
20°	4992.8	4946.3	4977.3	5073.4	5284.1	5597.2	6077.5	6189.1	6616.8	6824.4	6393.7
22.5°	4940.1	4899.8	4918.4	4912.2	5079.6	5302.7	5807.9	5925.7	6452.5	6740.8	6241.8
25°	4980.4	4980.4	4961.8	4946.3	4964.9	5110.6	5516.6	5699.4	6232.5	6669.5	6086.8
27.5°	5197.4	5113.7	5123.0	5057.9	5039.3	5039.3	5386.4	5494.9	6161.2	6629.2	5959.8
30°	5336.8	5377.1	5380.2	5284.1	5188.1	5014.5	5265.5	5370.9	6102.3	6678.8	5885.4
32.5°	5693.2	5674.6	5622.0	5603.4	5460.8	5265.5	5324.4	5395.7	6068.2	6790.4	5907.1
35°	6049.6	6040.3	6043.4	6034.1	5885.4	5597.2	5482.5	5578.6	6130.2	6985.6	5981.5
37.5°	6418.4	6443.2	6548.6	6548.6	6390.6	6077.5	5925.7	5897.8	6356.5	7304.8	6158.1
40°	6787.3	6849.2	6982.5	7193.2	6970.1	6678.8	6433.9	6390.6	6629.2	7732.5	6582.7
42.5°	7140.6	7242.8	7506.3	7819.3	7744.9	7453.6	7128.2	7078.6	7190.1	8367.8	7174.7
45°	7593.0	7679.8	8095.1	8575.5	8677.8	8420.5	8039.3	7999.0	7992.8	9297.6	7989.7
47.5°	8281.1	8374.0	8789.3	9272.8	9588.9	9629.2	9201.5	9158.1	9009.4	10552.8	9182.9
50°	9142.6	9294.5	9644.7	10208.8	10667.5	11098.2	10977.4	10850.3	10559.0	12012.5	10695.3
52.5°	9771.8	9957.7	10431.9	11154.0	11962.9	12647.8	13081.7	13081.7	12412.3	13614.8	12514.6
55°	9939.1	10050.7	10648.9	11693.3	13078.6	14811.1	15719.2	15651.0	14618.9	15300.8	14631.3
57.5°	9272.8	9418.5	10143.7	11237.7	13664.4	16834.9	18338.0	18353.5	17030.1	17259.5	16720.2
60°	7438.1	7484.6	8340.0	9802.8	13100.3	18465.0	21914.5	21973.3	19772.9	19004.3	17783.2
62.5°	5141.6	5290.3	5935.0	7218.0	10853.4	18282.2	25363.9	25655.2	21970.2	19924.8	17950.6
65°	3384.3	3474.2	3818.2	4599.2	7555.9	15846.2	26436.2	27335.0	23650.0	19977.5	17250.2
67.5°	2454.6	2470.1	2572.3	2975.2	4540.3	11395.8	24604.6	25872.1	24279.1	19537.4	15607.6
70°	1983.5	1995.9	2033.1	2290.3	2931.8	7131.3	20067.3	22053.9	22391.7	17451.6	12570.4
72.5°	1611.6	1627.1	1673.6	1915.3	2417.4	3967.0	14674.7	17095.2	18214.0	12911.3	8355.4
75°	1267.6	1280.0	1391.5	1630.2	2271.7	2724.2	9734.6	12105.5	12257.3	7546.6	3911.2
77.5°	867.8	889.5	1025.8	1382.2	2138.4	2383.3	6068.2	7754.2	6957.7	2953.5	1345.1
80°	551.7	582.6	663.2	1047.5	1890.5	2274.8	3774.8	4630.2	3046.5	1010.3	647.7
82.5°	325.4	356.4	437.0	678.7	1484.5	2110.6	2659.1	2897.8	1428.7	517.6	390.5
85°	179.8	201.4	263.4	409.1	870.9	1875.0	2129.2	2079.6	818.2	275.8	244.8
87.5°	58.9	68.2	96.1	164.3	359.5	883.3	1276.9	1199.4	424.6	127.1	96.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7574.4	7574.4	7574.4	7574.4	7574.4	7574.4	7574.4	7574.4	7574.4	7574.4	7574.4
2.5°	7568.3	7559.0	7419.5	7314.1	7134.4	6985.6	6926.7	6846.1	6843.0	6784.2	6768.7
5°	7385.4	7289.3	7075.5	6870.9	6551.7	6337.9	6142.6	6006.3	5950.5	5829.6	5801.7
7.5°	7149.9	7022.8	6694.3	6310.0	5935.0	5600.3	5296.5	4992.8	4822.4	4763.5	4698.4
10°	6905.0	6681.9	6195.3	5764.5	5240.7	4726.3	4249.0	3821.3	3588.9	3424.6	3353.3
12.5°	6709.8	6412.2	5792.4	5147.8	4456.7	3768.6	3213.9	2764.5	2501.1	2377.1	2321.3
15°	6489.7	6096.1	5352.3	4537.2	3675.7	2894.7	2352.3	1999.0	1893.6	1834.7	1825.4
17.5°	6257.3	5801.7	4875.0	3936.0	2913.2	2178.7	1828.5	1686.0	1639.5	1614.7	1602.3
20°	6040.3	5538.3	4385.4	3266.6	2281.0	1747.9	1583.7	1509.3	1506.2	1518.6	1515.5
22.5°	5733.5	5194.3	3901.9	2646.7	1822.3	1521.7	1416.3	1397.7	1416.3	1431.8	1438.0
25°	5560.0	4912.2	3362.6	2101.3	1506.2	1351.3	1317.2	1311.0	1338.9	1357.5	1354.4
27.5°	5380.2	4620.9	2860.6	1682.9	1320.3	1230.4	1224.2	1230.4	1258.3	1286.2	1283.1
30°	5240.7	4388.5	2389.5	1407.0	1177.7	1143.6	1137.4	1143.6	1159.1	1162.2	1162.2
32.5°	5126.1	4112.6	1989.7	1221.1	1090.9	1063.0	1069.2	1066.1	1069.2	1072.3	1075.4
35°	5057.9	3948.4	1661.2	1106.4	1019.6	997.9	994.8	985.5	988.6	991.7	988.6
37.5°	5203.6	3867.8	1400.8	1025.8	970.1	951.5	945.3	939.1	929.8	929.8	929.8
40°	5423.6	3824.4	1242.8	973.1	932.9	911.2	892.6	886.4	886.4	889.5	892.6
42.5°	5860.6	3895.7	1134.3	932.9	886.4	861.6	843.0	846.1	855.4	864.7	858.5
45°	6492.8	4112.6	1084.7	901.9	858.5	824.4	812.0	808.9	818.2	833.7	846.1
47.5°	7320.3	4450.5	1066.1	874.0	839.9	793.4	777.9	787.2	799.6	821.3	812.0
50°	8674.7	5209.8	1081.6	849.2	812.0	777.9	759.3	750.0	759.3	774.8	781.0
52.5°	10444.3	6588.9	1140.5	836.8	793.4	765.5	734.5	719.0	728.3	740.7	740.7
55°	12561.1	8473.2	1304.8	821.3	762.4	746.9	712.8	681.8	688.0	688.0	684.9
57.5°	14426.8	9895.8	1500.0	799.6	743.8	722.1	678.7	641.5	635.3	638.4	641.5
60°	15263.6	10273.9	1593.0	793.4	743.8	691.1	632.2	595.0	585.7	579.6	579.6
62.5°	15117.9	9619.9	1403.9	765.5	762.4	666.3	588.8	548.6	536.2	523.8	526.9
65°	14237.7	8687.1	1106.4	728.3	765.5	650.8	545.5	505.2	483.5	468.0	464.9
67.5°	12629.2	7416.4	877.1	700.4	734.5	622.9	508.3	461.8	443.2	427.7	421.5
70°	9880.3	5814.1	762.4	663.2	660.1	554.8	464.9	424.6	396.7	378.1	378.1
72.5°	6406.0	3675.7	653.9	588.8	570.3	464.9	402.9	378.1	356.4	340.9	340.9
75°	2900.9	1707.7	526.9	492.8	464.9	371.9	340.9	328.5	309.9	294.4	294.4
77.5°	1041.3	728.3	393.6	387.4	347.1	288.2	275.8	266.5	254.1	238.6	238.6
80°	582.6	461.8	294.4	282.0	241.7	213.8	198.3	198.3	192.2	182.9	179.8
82.5°	368.8	300.6	216.9	189.1	158.1	142.6	136.4	133.3	130.2	117.8	114.7
85°	232.4	204.5	142.6	111.6	93.0	71.3	68.2	65.1	58.9	52.7	52.7
87.5°	105.4	117.8	55.8	34.1	24.8	15.5	9.3	3.1	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)