

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: P480870

Luminaire Tested: **IFLD-M-SA4D-735-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480870
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-735-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

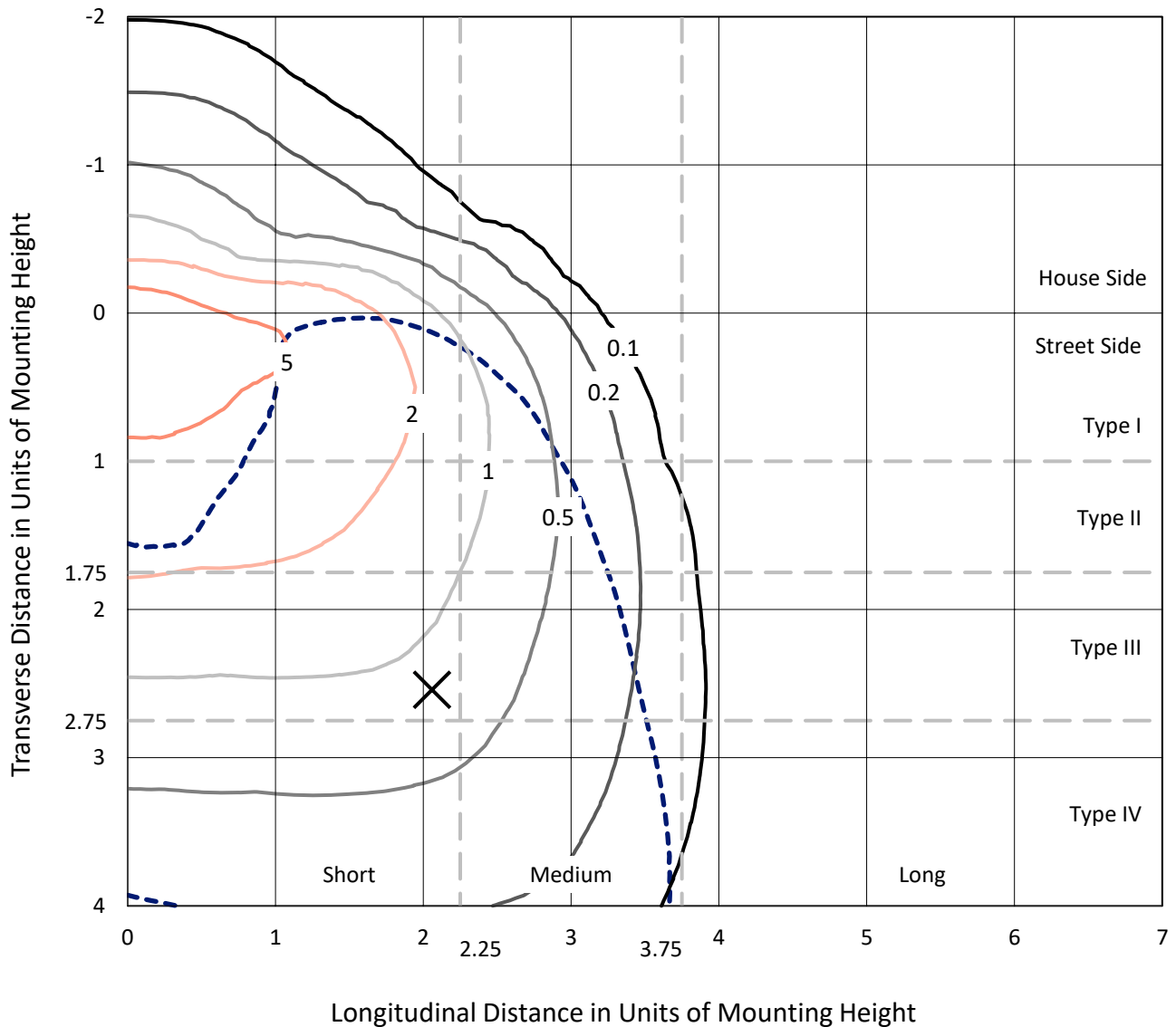
Lumens per Lamp: N/A
Luminaire Lumens: 29845.8 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 249.7
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

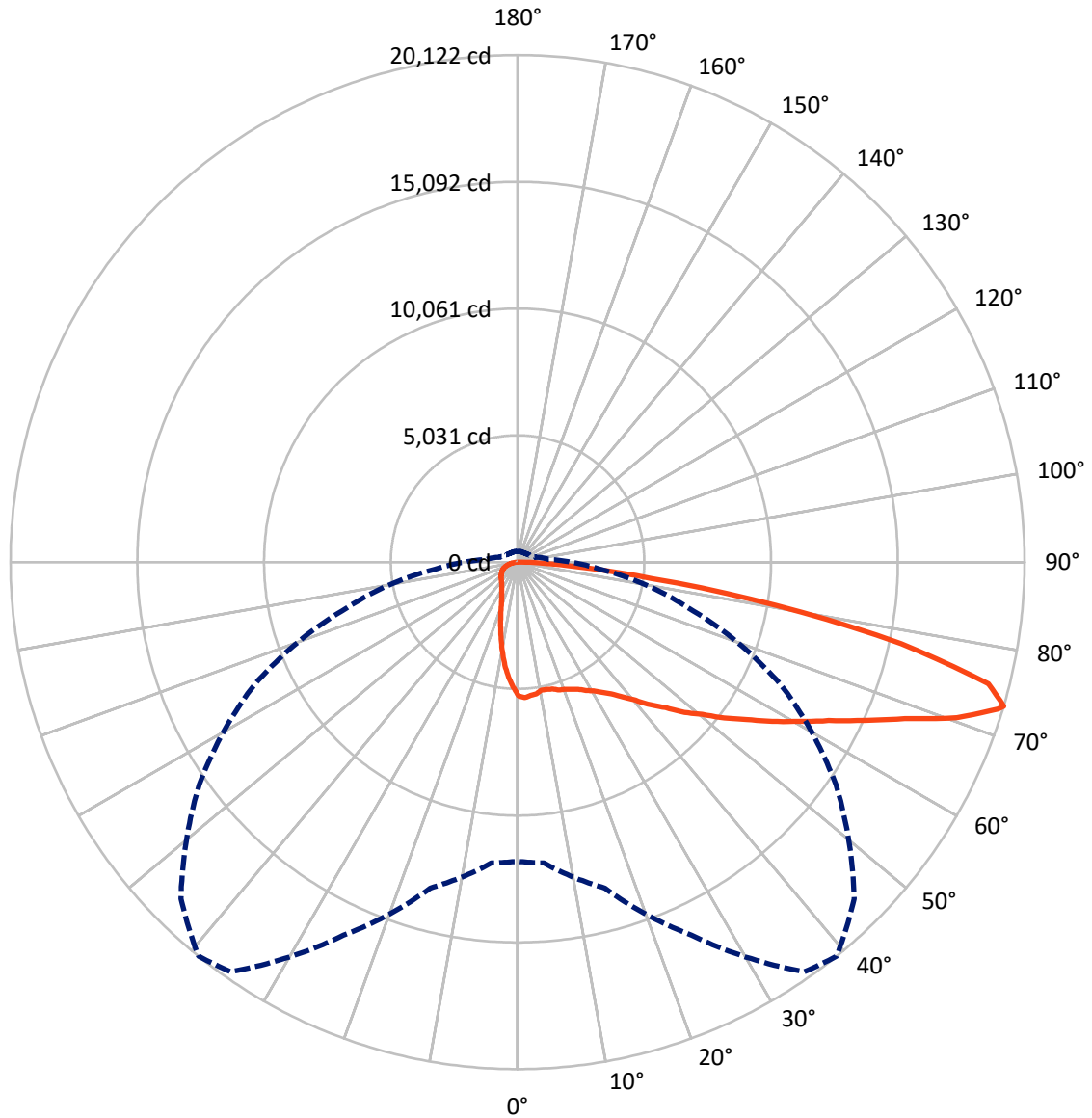
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	4195.5	0.0	4195.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	25650.3	0.0	25650.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	29845.8	0.0	29845.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.2	1.5
10°-20°	1172.4	3.9
20°-30°	1791.6	6.0
30°-40°	2612.1	8.8
40°-50°	3947.2	13.2
50°-60°	5715.8	19.2
60°-70°	7262.2	24.3
70°-80°	5887.1	19.7
80°-90°	996.1	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°	29845.8	100.0
0°-180°	29845.8	100.0

Coefficient of Utilization

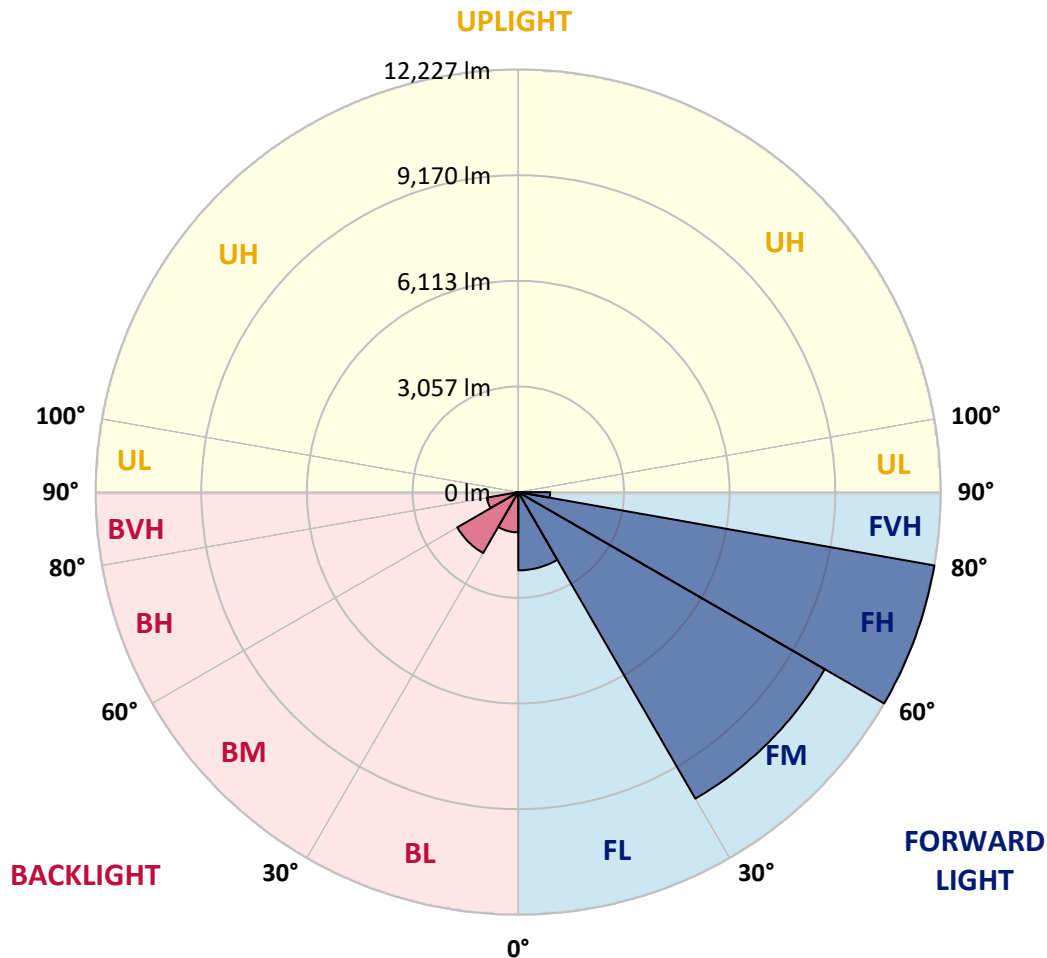


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2261.6	7.6			
FM (30°-60°)	10239.0	34.3			
FH (60°-80°)	12226.6	41.0			G5
FVH (80°-90°)	923.0	3.1			G5
BL (0°-30°)	1163.5	3.9	B3/2500		
BM (30°-60°)	2036.2	6.8	B2/2500		
BH (60°-80°)	922.7	3.1	B2/1000		G2/1000
BVH (80°-90°)	73.1	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°	5312.7	5312.7	5312.7	5312.7	5312.7	5312.7	5312.7	5312.7	5312.7	5312.7	5312.7
2.5°	5439.6	5382.8	5392.9	5372.8	5392.9	5386.2	5376.2	5326.1	5376.2	5326.1	5312.7
5°	5366.2	5366.2	5399.5	5349.5	5356.1	5322.7	5356.1	5319.4	5286.0	5202.5	5179.2
7.5°	5342.8	5339.4	5342.8	5272.7	5306.0	5286.0	5252.6	5212.5	5145.8	5092.3	5015.5
10°	5182.5	5215.9	5179.2	5199.2	5225.9	5165.8	5162.5	5152.4	5122.4	5052.3	5005.5
12.5°	5095.7	5152.4	5172.5	5155.8	5179.2	5185.8	5165.8	5152.4	5115.7	5069.0	4935.4
15°	5132.4	5065.6	5122.4	5232.6	5209.2	5225.9	5229.2	5215.9	5199.2	5112.4	5025.6
17.5°	5142.4	5102.4	5222.6	5245.9	5276.0	5336.1	5296.0	5292.7	5229.2	5169.1	5042.2
20°	5165.8	5149.1	5245.9	5369.5	5372.8	5382.8	5402.9	5352.8	5319.4	5215.9	5022.2
22.5°	5252.6	5309.4	5399.5	5453.0	5483.0	5489.7	5489.7	5389.5	5352.8	5269.3	5115.7
25°	5513.1	5453.0	5579.9	5643.3	5599.9	5589.9	5566.5	5476.3	5436.3	5362.8	5159.1
27.5°	5703.4	5700.1	5773.5	5860.4	5743.5	5766.9	5683.4	5656.7	5566.5	5526.4	5235.9
30°	5963.9	6037.3	6034.0	6060.7	5907.1	5933.8	5827.0	5776.9	5726.8	5750.2	5463.0
32.5°	6297.8	6271.1	6314.5	6294.5	6140.9	6164.2	6037.3	5960.5	5977.2	6047.4	5773.5
35°	6511.5	6484.8	6501.5	6501.5	6454.7	6428.0	6374.6	6274.4	6354.6	6484.8	6120.8
37.5°	6741.9	6775.3	6872.1	6852.1	6792.0	6792.0	6785.3	6715.2	6818.7	7139.3	6675.1
40°	6945.6	7035.8	7095.9	7135.9	7206.1	7206.1	7262.8	7222.8	7409.8	7924.0	7353.0
42.5°	7159.3	7162.7	7489.9	7520.0	7676.9	7743.7	7787.1	7820.5	8171.1	8745.5	8077.6
45°	7433.1	7449.8	7737.0	7967.4	8211.2	8234.6	8398.2	8508.4	8939.1	9643.7	8865.7
47.5°	7793.8	7773.7	8081.0	8448.3	8752.1	8912.4	9109.4	9229.6	9760.6	10618.8	9727.2
50°	8267.9	8207.8	8384.8	8962.5	9319.8	9496.8	9847.4	10047.8	10668.9	11550.4	10318.2
52.5°	8845.6	8745.5	8885.7	9516.8	9917.5	10274.8	10608.8	10832.5	11480.3	12271.7	10755.7
55°	9456.7	9249.7	9289.8	10104.5	10682.2	11019.5	11477.0	11710.7	12371.9	12919.5	11193.1
57.5°	10061.1	9930.9	9850.7	10668.9	11593.8	11917.7	12338.5	12642.3	13203.3	13493.9	11563.8
60°	10568.7	10535.3	10405.1	11543.7	12558.9	12836.0	13276.8	13463.8	13887.9	14024.8	11570.5
62.5°	10986.1	10872.6	11079.6	12248.3	13540.6	13854.5	14338.7	14355.4	14655.9	14355.4	11229.9
65°	11313.3	11320.0	11650.6	13099.8	14675.9	15140.1	15530.8	15487.4	15293.7	14158.4	10425.1
67.5°	11610.5	11737.4	12221.6	14034.8	16135.2	16572.6	17006.7	16432.4	15467.3	13236.7	8852.3
70°	11844.3	11971.2	12993.0	15173.5	17854.9	18496.0	18592.9	16806.4	14669.3	11213.2	6678.5
72.5°	11817.6	12048.0	13430.4	16081.8	19380.9	19935.2	19153.9	15754.5	12221.6	7817.2	3896.9
73°	11874.3	11987.9	13393.7	16335.5	19845.1	20122.2	18893.4	15423.9	11527.0	7012.4	3295.8
75°	10779.1	11163.1	12729.2	15921.5	19347.5	19297.4	17397.4	12852.7	8194.5	3683.2	1596.2
77.5°	7974.1	8217.9	10031.1	13093.1	15881.4	15560.8	13123.2	8214.5	3890.2	1365.7	861.5
80°	3896.9	4087.2	5316.1	7560.0	10385.0	10411.7	8144.4	4274.2	1666.3	771.4	587.7
82.5°	1946.8	2060.3	2554.5	3322.5	5109.0	5352.8	4130.6	2431.0	1031.8	437.4	333.9
85°	1272.2	1352.4	1572.8	1626.2	2167.2	2287.4	1923.4	1896.7	671.2	237.1	270.5
87.5°	844.8	858.2	965.0	821.5	868.2	834.8	928.3	1195.4	197.0	100.2	73.5
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°	5312.7	5312.7	5312.7	5312.7	5312.7	5312.7	5312.7	5312.7	5312.7	5312.7	5312.7
2.5°	5296.0	5249.3	5199.2	5129.1	5079.0	5002.2	4932.1	4902.0	4895.3	4898.7	4865.3
5°	5159.1	5092.3	4992.2	4848.6	4765.1	4638.2	4531.3	4474.6	4414.5	4424.5	4397.8
7.5°	4968.8	4895.3	4741.7	4574.8	4367.7	4187.4	4087.2	3947.0	3866.8	3806.7	3840.1
10°	4908.7	4781.8	4551.4	4321.0	4000.4	3763.3	3532.9	3372.6	3262.4	3155.6	3202.3
12.5°	4878.6	4751.7	4431.2	4090.6	3676.5	3315.9	2992.0	2794.9	2638.0	2544.5	2581.2
15°	4851.9	4695.0	4317.6	3836.8	3372.6	2898.5	2534.5	2274.0	2123.8	2033.6	2043.6
17.5°	4888.6	4664.9	4150.7	3589.7	3038.7	2531.1	2127.1	1856.6	1703.0	1646.2	1632.9
20°	4851.9	4631.5	3987.0	3342.6	2704.8	2180.5	1793.2	1569.4	1462.6	1415.8	1405.8
22.5°	4865.3	4551.4	3816.7	3068.8	2394.2	1886.7	1569.4	1399.1	1315.7	1292.3	1299.0
25°	4928.7	4504.6	3646.4	2768.2	2087.0	1669.6	1425.9	1295.6	1235.5	1212.1	1218.8
27.5°	4975.5	4544.7	3492.8	2484.4	1826.6	1475.9	1305.6	1218.8	1178.8	1162.1	1158.7
30°	5092.3	4568.1	3342.6	2230.6	1612.9	1349.1	1222.2	1152.0	1125.3	1115.3	1112.0
32.5°	5266.0	4611.5	3168.9	1996.9	1455.9	1228.8	1155.4	1095.3	1088.6	1078.6	1081.9
35°	5549.8	4761.8	2975.3	1796.5	1305.6	1148.7	1085.3	1045.2	1045.2	1045.2	1055.2
37.5°	5957.2	4972.1	2801.6	1606.2	1208.8	1078.6	1025.1	1011.8	1005.1	1015.1	1021.8
40°	6481.5	5225.9	2661.4	1455.9	1125.3	1031.8	985.1	978.4	975.1	971.7	978.4
42.5°	7055.8	5549.8	2541.2	1339.0	1065.2	981.7	948.3	941.7	928.3	935.0	945.0
45°	7626.8	5950.5	2434.3	1245.5	1025.1	955.0	908.3	904.9	898.3	894.9	911.6
47.5°	8261.3	6344.5	2400.9	1188.8	995.1	915.0	881.6	878.2	858.2	854.8	868.2
50°	8755.5	6635.1	2437.6	1162.1	951.7	884.9	861.5	844.8	828.1	811.4	811.4
52.5°	9096.1	6835.4	2464.4	1142.0	928.3	844.8	814.8	808.1	791.4	774.7	768.0
55°	9403.3	6955.6	2471.0	1145.4	904.9	798.1	778.0	774.7	764.7	738.0	731.3
57.5°	9506.8	6905.5	2337.5	1115.3	891.6	768.0	741.3	748.0	734.6	711.3	707.9
60°	9496.8	6558.3	2033.6	1075.2	861.5	734.6	701.2	721.3	721.3	694.6	691.2
62.5°	8919.1	5756.8	1662.9	998.4	828.1	701.2	664.5	694.6	704.6	687.9	684.5
65°	7720.3	4688.3	1389.1	921.6	778.0	664.5	627.8	661.2	677.9	671.2	667.8
67.5°	6388.0	3586.3	1155.4	821.5	714.6	614.4	584.4	607.7	617.8	621.1	624.4
70°	4514.6	2387.6	965.0	711.3	627.8	561.0	527.6	530.9	527.6	537.6	537.6
72.5°	2454.3	1375.8	784.7	604.4	541.0	487.5	464.2	447.5	447.5	444.1	444.1
73°	2100.4	1235.5	748.0	587.7	517.6	474.2	447.5	434.1	434.1	430.8	427.4
75°	1178.8	904.9	641.1	504.2	447.5	414.1	394.0	374.0	370.7	370.7	370.7
77.5°	774.7	704.6	510.9	404.0	360.6	330.6	323.9	303.9	303.9	303.9	300.5
80°	581.0	554.3	394.0	307.2	277.2	253.8	247.1	233.7	230.4	217.1	220.4
82.5°	387.4	437.4	287.2	217.1	187.0	173.6	173.6	170.3	160.3	143.6	143.6
85°	307.2	357.3	207.0	133.6	110.2	93.5	96.8	93.5	90.2	73.5	70.1
87.5°	56.8	143.6	60.1	36.7	26.7	16.7	16.7	10.0	6.7	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)