

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: P480947

Luminaire Tested: **IFLD-M-SA4C-750-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480947
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-750-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

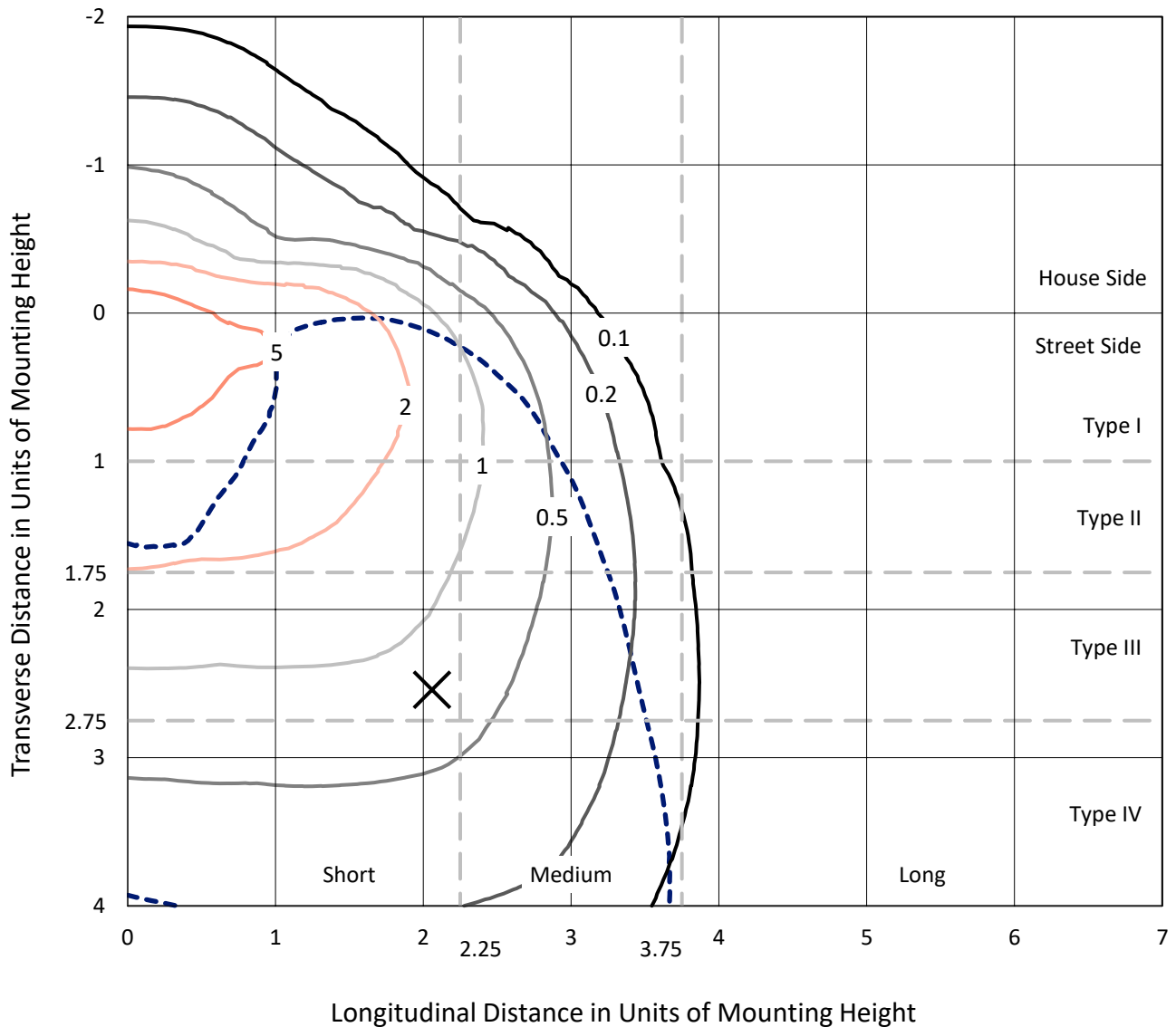
Lumens per Lamp: N/A
Luminaire Lumens: 28131.2 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 218.1
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

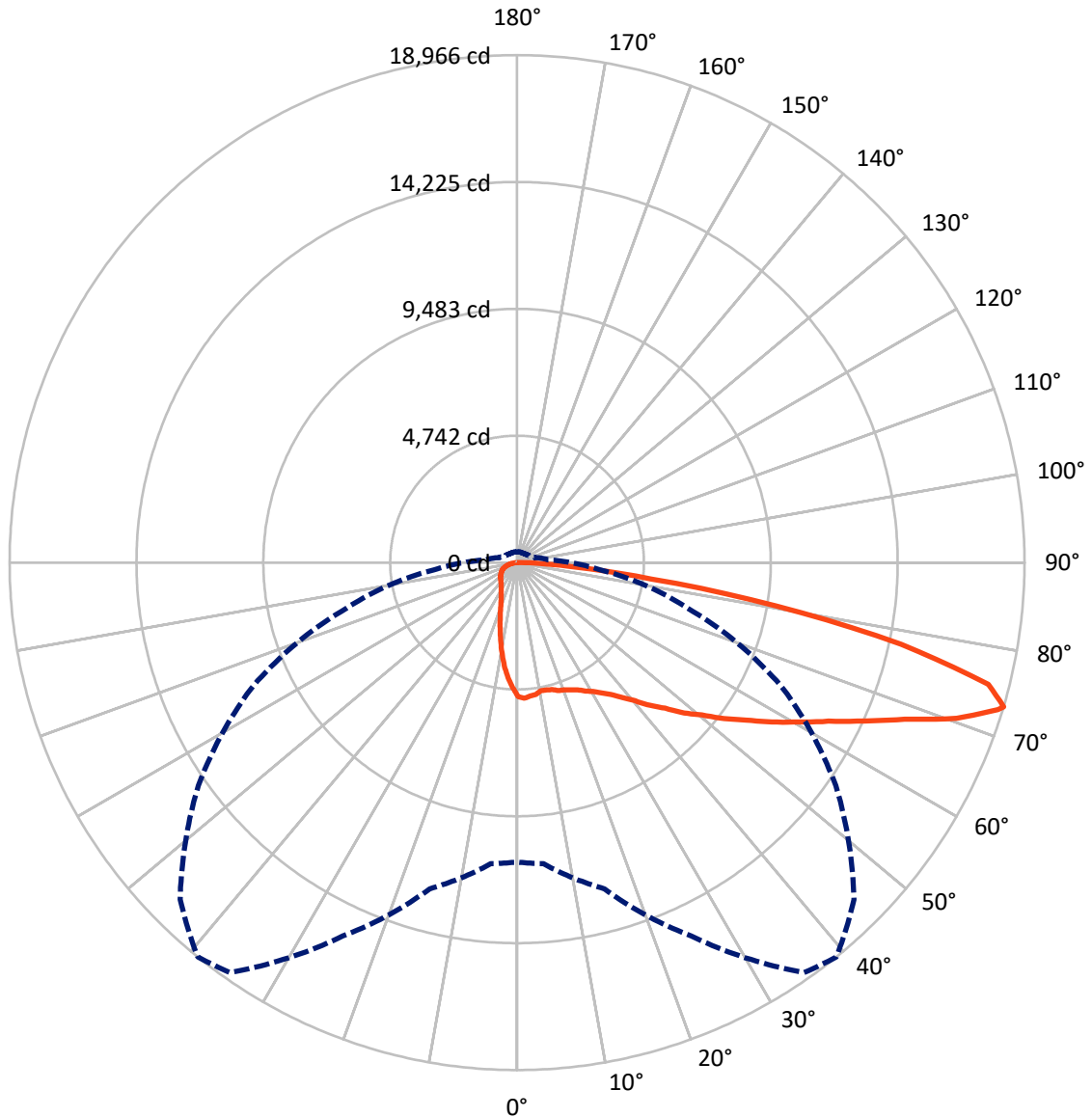
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	3954.5	0.0	3954.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	24176.7	0.0	24176.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	28131.2	0.0	28131.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.7	1.5
10°-20°	1105.0	3.9
20°-30°	1688.6	6.0
30°-40°	2462.1	8.8
40°-50°	3720.5	13.2
50°-60°	5387.4	19.2
60°-70°	6845.0	24.3
70°-80°	5548.9	19.7
80°-90°	938.9	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°	28131.2	100.0
0°-180°	28131.2	100.0

Coefficient of Utilization



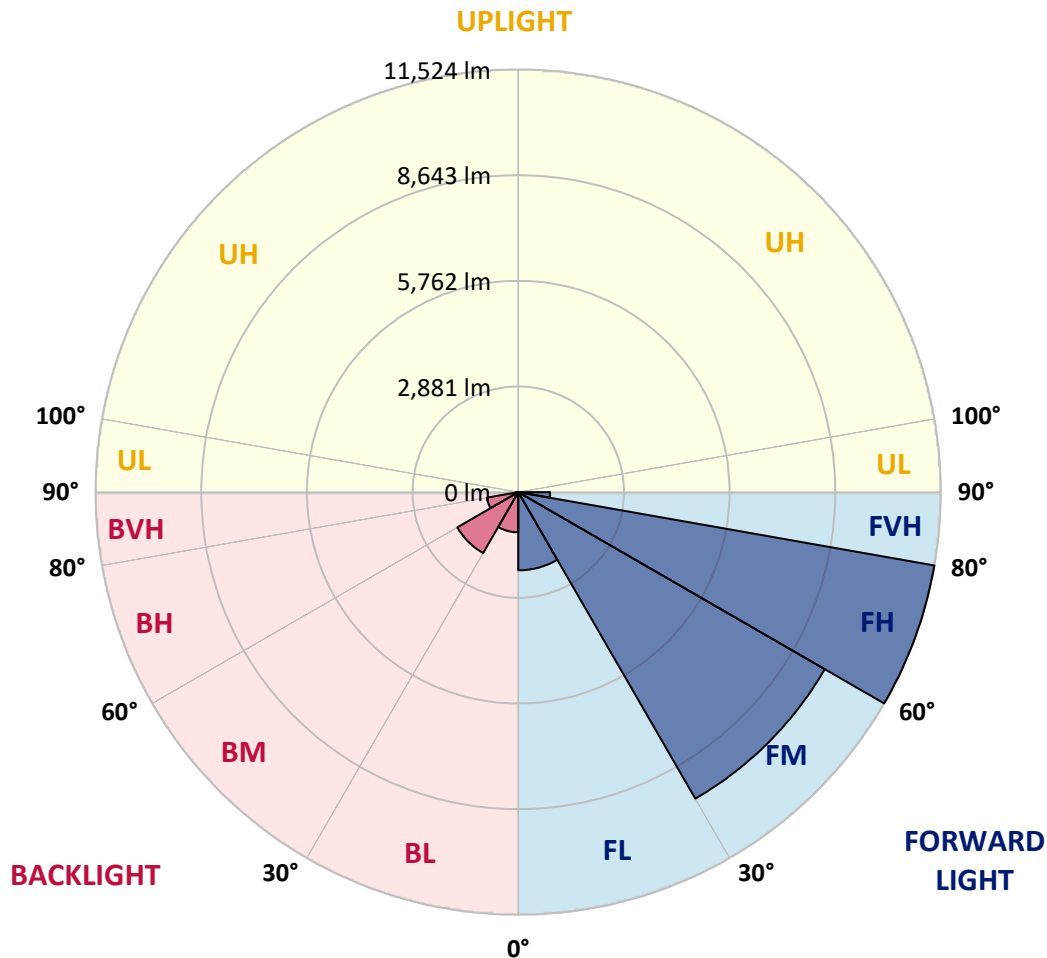
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2131.7	7.6			
FM (30°-60°)	9650.8	34.3			
FH (60°-80°)	11524.2	41.0			G4/12000
FVH (80°-90°)	870.0	3.1			G5
BL (0°-30°)	1096.7	3.9	B3/2500		
BM (30°-60°)	1919.2	6.8	B2/2500		
BH (60°-80°)	869.7	3.1	B2/1000		G2/1000
BVH (80°-90°)	68.9	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°	5007.5	5007.5	5007.5	5007.5	5007.5	5007.5	5007.5	5007.5	5007.5	5007.5	5007.5
2.5°	5127.1	5073.6	5083.1	5064.2	5083.1	5076.8	5067.3	5020.1	5067.3	5020.1	5007.5
5°	5057.9	5057.9	5089.4	5042.1	5048.4	5017.0	5048.4	5013.8	4982.3	4903.7	4881.6
7.5°	5035.8	5032.7	5035.8	4969.8	5001.2	4982.3	4950.9	4913.1	4850.2	4799.8	4727.4
10°	4884.8	4916.2	4881.6	4900.5	4925.7	4869.0	4865.9	4856.4	4828.1	4762.0	4718.0
12.5°	4802.9	4856.4	4875.3	4859.6	4881.6	4887.9	4869.0	4856.4	4821.8	4777.8	4651.9
15°	4837.6	4774.6	4828.1	4932.0	4910.0	4925.7	4928.8	4916.2	4900.5	4818.7	4736.8
17.5°	4847.0	4809.2	4922.5	4944.6	4972.9	5029.6	4991.8	4988.6	4928.8	4872.2	4752.6
20°	4869.0	4853.3	4944.6	5061.0	5064.2	5073.6	5092.5	5045.3	5013.8	4916.2	4733.7
22.5°	4950.9	5004.4	5089.4	5139.7	5168.0	5174.3	5174.3	5079.9	5045.3	4966.6	4821.8
25°	5196.4	5139.7	5259.3	5319.1	5278.2	5268.8	5246.7	5161.7	5124.0	5054.7	4862.7
27.5°	5375.8	5372.6	5441.9	5523.7	5413.5	5435.6	5356.9	5331.7	5246.7	5209.0	4935.1
30°	5621.3	5690.5	5687.4	5712.5	5567.8	5592.9	5492.2	5445.0	5397.8	5419.8	5149.2
32.5°	5936.0	5910.8	5951.7	5932.9	5788.1	5810.1	5690.5	5618.1	5633.9	5699.9	5441.9
35°	6137.4	6112.3	6128.0	6128.0	6083.9	6058.8	6008.4	5914.0	5989.5	6112.3	5769.2
37.5°	6354.6	6386.1	6477.4	6458.5	6401.8	6401.8	6395.5	6329.4	6427.0	6729.2	6291.7
40°	6546.6	6631.6	6688.2	6726.0	6792.1	6792.1	6845.6	6807.8	6984.1	7468.8	6930.6
42.5°	6748.0	6751.2	7059.6	7088.0	7235.9	7298.8	7339.7	7371.2	7701.7	8243.1	7613.6
45°	7006.1	7021.9	7292.5	7509.7	7739.5	7761.5	7915.7	8019.6	8425.6	9089.7	8356.4
47.5°	7346.0	7327.2	7616.7	7962.9	8249.3	8400.4	8586.1	8699.4	9199.9	10008.7	9168.4
50°	7793.0	7736.3	7903.1	8447.6	8784.4	8951.2	9281.7	9470.5	10056.0	10886.9	9725.5
52.5°	8337.5	8243.1	8375.2	8970.1	9347.8	9684.6	9999.3	10210.2	10820.8	11566.7	10137.8
55°	8913.4	8718.3	8756.1	9524.0	10068.5	10386.4	10817.6	11037.9	11661.1	12177.3	10550.1
57.5°	9483.1	9360.4	9284.8	10056.0	10927.8	11233.1	11629.7	11916.1	12444.8	12718.7	10899.5
60°	9961.5	9930.1	9807.3	10880.6	11837.4	12098.6	12514.1	12690.3	13090.1	13219.1	10905.8
62.5°	10355.0	10247.9	10443.1	11544.7	12762.7	13058.6	13515.0	13530.7	13814.0	13530.7	10584.7
65°	10663.4	10669.7	10981.3	12347.3	13832.8	14270.3	14638.6	14597.7	14415.1	13345.0	9826.2
67.5°	10943.5	11063.1	11519.5	13228.5	15208.3	15620.6	16029.7	15488.4	14578.8	12476.3	8343.8
70°	11163.8	11283.4	12246.6	14301.8	16829.2	17433.5	17524.7	15840.9	13826.5	10569.0	6294.8
72.5°	11138.7	11355.8	12658.9	15157.9	18267.5	18790.0	18053.5	14849.5	11519.5	7368.1	3673.0
73°	11192.2	11299.2	12624.2	15397.1	18705.0	18966.3	17808.0	14537.9	10864.8	6609.5	3106.5
75°	10159.8	10521.8	11997.9	15006.8	18236.1	18188.9	16398.0	12114.4	7723.7	3471.6	1504.5
77.5°	7516.0	7745.8	9454.8	12341.0	14969.1	14666.9	12369.3	7742.6	3666.7	1287.3	812.0
80°	3673.0	3852.4	5010.7	7125.7	9788.4	9813.6	7676.5	4028.7	1570.6	727.1	553.9
82.5°	1834.9	1941.9	2407.8	3131.7	4815.5	5045.3	3893.3	2291.3	972.5	412.3	314.7
85°	1199.2	1274.7	1482.4	1532.8	2042.7	2156.0	1812.9	1787.7	632.6	223.5	254.9
87.5°	796.3	808.9	909.6	774.3	818.3	786.9	875.0	1126.8	185.7	94.4	69.2
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°	5007.5	5007.5	5007.5	5007.5	5007.5	5007.5	5007.5	5007.5	5007.5	5007.5	5007.5
2.5°	4991.8	4947.7	4900.5	4834.4	4787.2	4714.8	4648.7	4620.4	4614.1	4617.2	4585.8
5°	4862.7	4799.8	4705.4	4570.0	4491.3	4371.7	4271.0	4217.5	4160.9	4170.3	4145.1
7.5°	4683.3	4614.1	4469.3	4311.9	4116.8	3946.8	3852.4	3720.2	3644.7	3588.0	3619.5
10°	4626.7	4507.1	4289.9	4072.7	3770.6	3547.1	3330.0	3178.9	3075.0	2974.3	3018.4
12.5°	4598.4	4478.8	4176.6	3855.6	3465.3	3125.4	2820.1	2634.4	2486.4	2398.3	2432.9
15°	4573.2	4425.3	4069.6	3616.4	3178.9	2731.9	2388.9	2143.4	2001.7	1916.8	1926.2
17.5°	4607.8	4396.9	3912.2	3383.5	2864.1	2385.7	2004.9	1750.0	1605.2	1551.7	1539.1
20°	4573.2	4365.5	3758.0	3150.6	2549.4	2055.3	1690.2	1479.3	1378.6	1334.5	1325.1
22.5°	4585.8	4289.9	3597.5	2892.5	2256.7	1778.3	1479.3	1318.8	1240.1	1218.0	1224.3
25°	4645.6	4245.8	3437.0	2609.2	1967.1	1573.7	1343.9	1221.2	1164.5	1142.5	1148.8
27.5°	4689.6	4283.6	3292.2	2341.7	1721.6	1391.2	1230.6	1148.8	1111.0	1095.3	1092.1
30°	4799.8	4305.6	3150.6	2102.5	1520.2	1271.6	1152.0	1085.9	1060.7	1051.2	1048.1
32.5°	4963.5	4346.6	2986.9	1882.1	1372.3	1158.2	1089.0	1032.3	1026.1	1016.6	1019.8
35°	5231.0	4488.2	2804.3	1693.3	1230.6	1082.7	1022.9	985.1	985.1	985.1	994.6
37.5°	5615.0	4686.5	2640.7	1513.9	1139.4	1016.6	966.3	953.7	947.4	956.8	963.1
40°	6109.1	4925.7	2508.5	1372.3	1060.7	972.5	928.5	922.2	919.0	915.9	922.2
42.5°	6650.5	5231.0	2395.2	1262.1	1004.0	925.3	893.9	887.6	875.0	881.3	890.7
45°	7188.7	5608.7	2294.5	1174.0	966.3	900.2	856.1	852.9	846.7	843.5	859.2
47.5°	7786.7	5980.1	2263.0	1120.5	937.9	862.4	830.9	827.8	808.9	805.7	818.3
50°	8252.5	6253.9	2297.6	1095.3	897.0	834.1	812.0	796.3	780.6	764.8	764.8
52.5°	8573.5	6442.7	2322.8	1076.4	875.0	796.3	768.0	761.7	745.9	730.2	723.9
55°	8863.1	6556.0	2329.1	1079.6	852.9	752.2	733.3	730.2	720.8	695.6	689.3
57.5°	8960.7	6508.8	2203.2	1051.2	840.4	723.9	698.7	705.0	692.4	670.4	667.2
60°	8951.2	6181.5	1916.8	1013.5	812.0	692.4	661.0	679.8	679.8	654.7	651.5
62.5°	8406.7	5426.1	1567.4	941.1	780.6	661.0	626.3	654.7	664.1	648.4	645.2
65°	7276.8	4419.0	1309.3	868.7	733.3	626.3	591.7	623.2	638.9	632.6	629.5
67.5°	6021.0	3380.3	1089.0	774.3	673.5	579.1	550.8	572.8	582.3	585.4	588.6
70°	4255.3	2250.4	909.6	670.4	591.7	528.8	497.3	500.4	497.3	506.7	506.7
72.5°	2313.3	1296.7	739.6	569.7	509.9	459.5	437.5	421.8	421.8	418.6	418.6
73°	1979.7	1164.5	705.0	553.9	487.8	446.9	421.8	409.2	409.2	406.0	402.9
75°	1111.0	852.9	604.3	475.3	421.8	390.3	371.4	352.5	349.4	349.4	349.4
77.5°	730.2	664.1	481.6	380.8	339.9	311.6	305.3	286.4	286.4	286.4	283.3
80°	547.6	522.5	371.4	289.6	261.2	239.2	232.9	220.3	217.2	204.6	207.7
82.5°	365.1	412.3	270.7	204.6	176.3	163.7	163.7	160.5	151.1	135.3	135.3
85°	289.6	336.8	195.1	125.9	103.9	88.1	91.3	88.1	85.0	69.2	66.1
87.5°	53.5	135.3	56.7	34.6	25.2	15.7	15.7	9.4	6.3	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)