

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: P476857

Luminaire Tested: **IFLD-L-SA7C-722-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476857
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-722-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

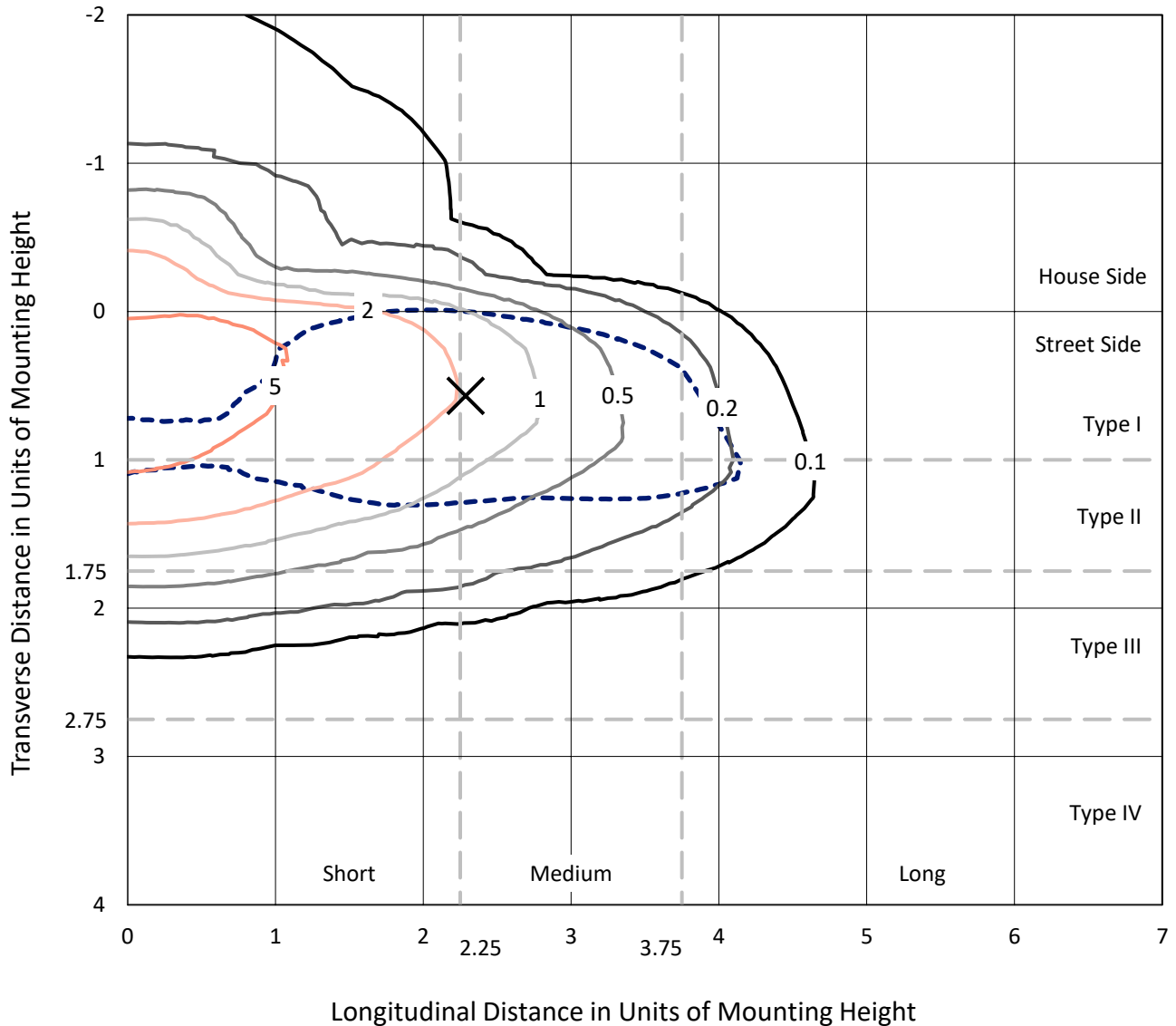
Lumens per Lamp: N/A
Luminaire Lumens: 32837.6 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 369
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

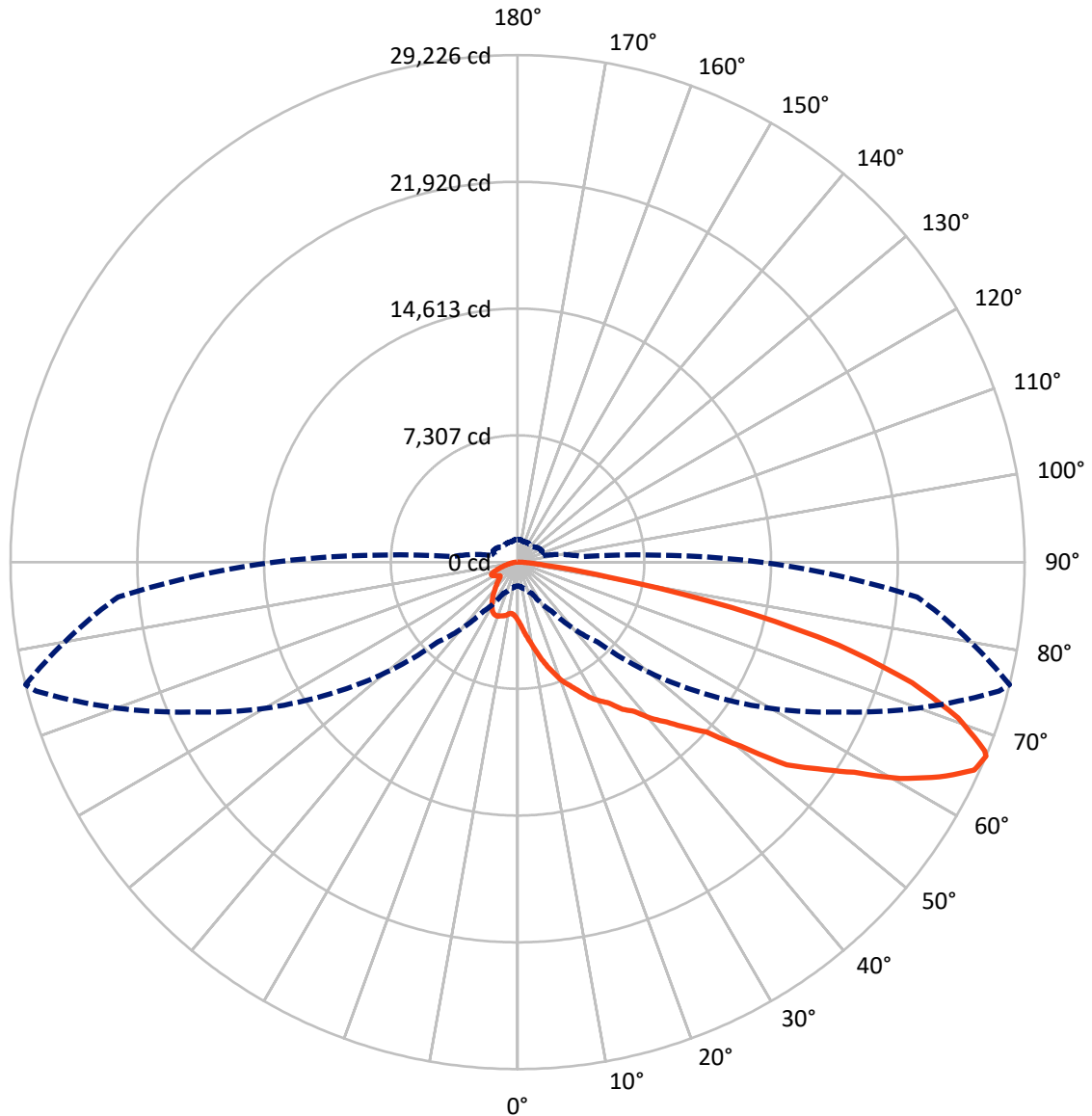
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4671.6	0.0	4671.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	28166.1	0.0	28166.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	32837.6	0.0	32837.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.3	1.2
10°-20°	1459.9	4.4
20°-30°	2714.2	8.3
30°-40°	4302.6	13.1
40°-50°	5950.9	18.1
50°-60°	7320.0	22.3
60°-70°	6811.6	20.7
70°-80°	3418.0	10.4
80°-90°	471.3	1.4
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°	32837.6	100.0
0°-180°	32837.6	100.0

Coefficient of Utilization



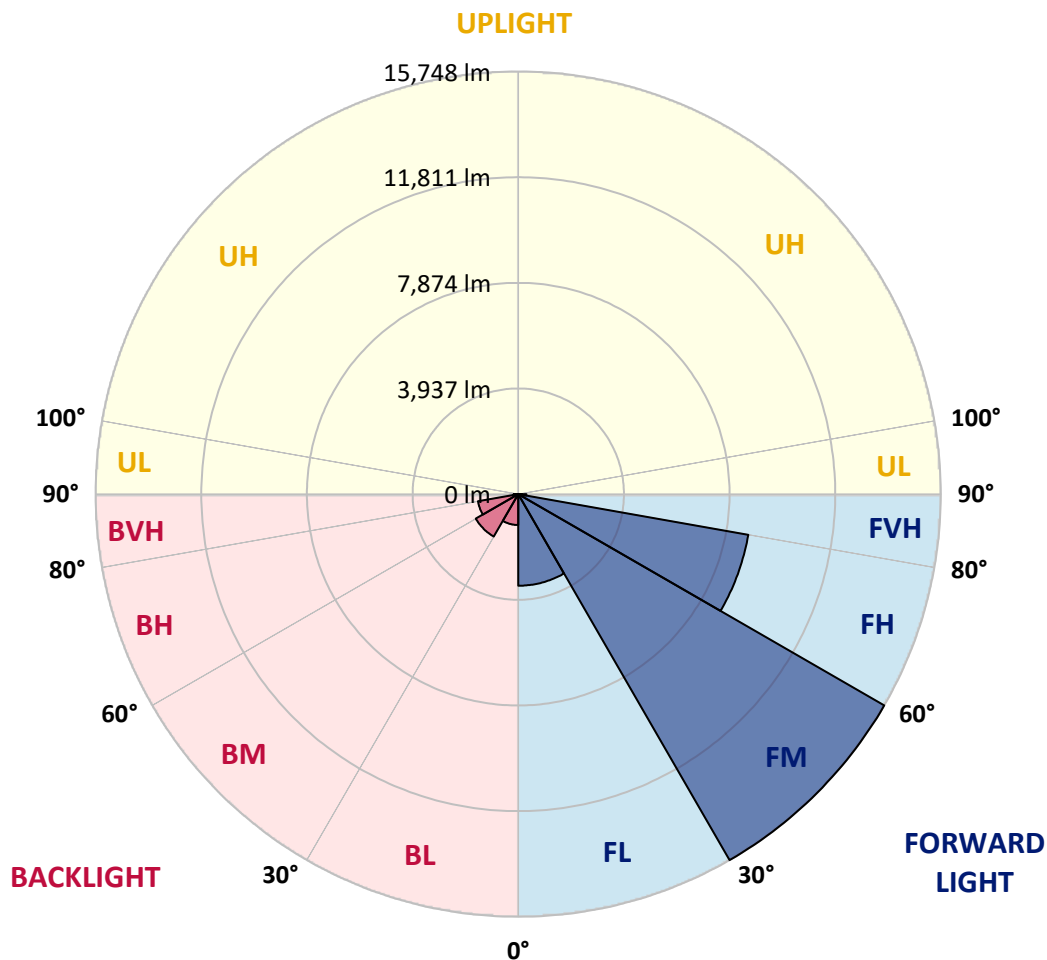
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3412.9	10.4			
FM (30°-60°)	15747.9	48.0			
FH (60°-80°)	8705.0	26.5			G4/12000
FVH (80°-90°)	300.3	0.9			G3/500
BL (0°-30°)	1150.4	3.5	B3/2500		
BM (30°-60°)	1825.6	5.6	B2/2500		
BH (60°-80°)	1524.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	171.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3360.4	3360.4	3360.4	3360.4	3360.4	3360.4	3360.4	3360.4	3360.4	3360.4	3360.4
2.5°	4662.7	4606.6	4550.4	4430.7	4389.5	4277.3	4071.4	3843.2	3656.1	3629.9	3498.9
5°	5785.3	5703.0	5684.3	5616.9	5403.6	5186.6	4849.8	4483.1	4026.5	4060.2	3611.2
7.5°	6627.3	6578.7	6477.6	6414.0	6286.8	5998.6	5650.6	5164.1	4584.1	4471.8	3861.9
10°	7263.5	7196.1	7192.4	7136.2	7068.9	6773.2	6507.6	5852.7	5108.0	4954.6	4168.7
12.5°	7585.3	7574.1	7772.4	7772.4	7746.2	7622.7	7166.2	6567.4	5605.7	5553.3	4524.2
15°	7933.3	7839.8	8011.9	8142.9	8210.2	8273.8	7895.9	7263.5	6241.9	6140.8	4905.9
17.5°	7933.3	7925.8	8098.0	8315.0	8666.8	8749.1	8543.3	7903.4	6769.5	6694.7	5325.0
20°	7798.6	7907.1	8026.9	8318.7	8700.4	9033.5	9093.4	8558.2	7353.3	7293.4	5800.3
22.5°	8427.3	8322.5	8446.0	8558.2	8853.9	9359.1	9523.7	9134.5	7967.0	7738.7	6230.6
25°	9482.5	9411.4	9321.6	9157.0	9280.5	9501.3	9752.0	9561.1	8490.9	8236.4	6646.0
27.5°	10511.6	10515.4	10320.8	9961.5	9695.8	9740.8	10036.4	9935.3	8932.5	8820.2	6930.4
30°	11974.8	11885.0	11668.0	11181.5	10661.3	10234.7	10186.1	10283.4	9493.8	9276.7	7338.3
32.5°	13071.2	13090.0	12783.1	12083.3	11372.3	11024.3	10597.7	10638.9	9849.3	9688.4	7663.9
35°	13958.1	13935.7	13718.6	13138.6	12296.6	11877.5	11301.2	11065.5	10676.3	10421.8	8161.6
37.5°	14916.1	14732.8	14381.0	13726.1	13187.3	12607.2	12045.9	11514.5	11226.4	10919.5	8588.2
40°	15301.6	15301.6	14830.0	14530.7	13890.8	13452.9	13090.0	12105.8	11896.2	11836.3	9134.5
42.5°	15028.4	15196.8	15002.2	14661.7	14399.7	13845.9	13748.6	12719.5	12723.2	12603.5	9789.4
45°	15002.2	14770.2	14609.3	14695.3	14571.8	14541.9	14788.9	13569.0	13591.4	13576.4	10668.8
47.5°	14250.0	14145.2	14384.7	14526.9	14628.0	15092.0	15803.0	14583.1	14744.0	14631.7	11682.9
50°	13501.6	13482.9	13632.6	14149.0	14586.8	15350.2	16768.5	16147.3	16674.9	16667.4	13520.3
52.5°	11450.9	11649.2	12236.8	13329.5	14410.9	15702.0	17498.2	18145.6	19152.2	19425.4	15043.3
55°	9490.0	9385.3	10253.4	11840.1	13643.8	15840.4	18314.0	19346.8	20828.7	21027.0	16607.6
57.5°	7383.2	7577.8	8262.6	9785.7	12057.1	15155.6	18912.7	20533.0	22722.2	22875.6	18422.5
60°	5508.4	5534.6	6286.8	7514.2	9946.6	13610.1	19107.3	21749.2	24892.6	25330.5	20323.5
62.5°	3465.2	3622.4	4194.9	5403.6	7488.0	11447.2	18235.4	22486.4	27167.8	27283.8	22239.5
65°	1867.3	1968.4	2398.7	3158.4	5231.5	8659.3	15922.7	22044.9	28238.1	28926.6	23092.7
67°	1380.8	1399.6	1597.9	2017.0	3498.9	6518.8	13277.1	20447.0	28724.6	29226.0	23126.3
67.5°	1294.8	1321.0	1478.1	1811.2	3102.2	6002.4	12584.8	19878.2	28507.5	29046.4	22864.4
70°	1107.7	1115.2	1152.6	1246.1	1740.1	3611.2	8569.5	16289.5	26423.2	26939.6	21027.0
72.5°	984.2	991.7	1006.6	1025.3	1178.8	2088.1	5212.8	12536.1	22965.4	23788.7	18141.8
75°	864.4	890.6	898.1	883.1	1002.9	1358.4	2772.9	9213.1	18733.1	19133.5	14107.8
77.5°	733.5	744.7	759.7	774.6	894.4	1014.1	1332.2	6219.4	12857.9	12614.7	7630.2
80°	617.5	621.2	632.4	643.6	774.6	774.6	755.9	3360.4	5616.9	5370.0	2578.3
82.5°	441.6	467.8	494.0	523.9	643.6	520.2	494.0	1496.9	1777.5	1691.4	871.9
85°	172.1	209.6	325.6	359.2	407.9	280.7	329.3	647.4	740.9	733.5	325.6
87.5°	29.9	33.7	89.8	138.5	149.7	97.3	157.2	232.0	276.9	299.4	119.7
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°	3360.4	3360.4	3360.4	3360.4	3360.4	3360.4	3360.4	3360.4	3360.4	3360.4	3360.4
2.5°	3390.4	3274.4	3135.9	2997.4	2907.6	2765.4	2754.2	2668.1	2656.9	2627.0	2641.9
5°	3416.6	3278.1	2997.4	2776.7	2675.6	2593.3	2612.0	2574.6	2563.4	2544.6	2514.7
7.5°	3622.4	3349.2	2930.1	2739.2	2664.4	2627.0	2627.0	2582.1	2548.4	2570.8	2593.3
10°	3757.1	3382.9	2982.5	2791.6	2731.8	2649.4	2679.4	2623.2	2641.9	2597.0	2597.0
12.5°	3974.1	3573.7	3091.0	2870.2	2772.9	2698.1	2728.0	2664.4	2649.4	2653.2	2641.9
15°	4266.0	3701.0	3139.6	2915.1	2847.8	2754.2	2731.8	2675.6	2619.5	2600.8	2623.2
17.5°	4539.2	3858.1	3173.3	2941.3	2832.8	2728.0	2701.8	2630.7	2612.0	2555.9	2511.0
20°	4864.8	4045.2	3218.2	2963.8	2776.7	2671.9	2604.5	2533.4	2469.8	2436.1	2451.1
22.5°	5081.8	4142.5	3240.7	2918.9	2694.3	2597.0	2454.8	2406.2	2316.4	2279.0	2249.0
25°	5437.3	4262.3	3184.5	2795.4	2548.4	2391.2	2264.0	2196.6	2133.0	2084.4	2069.4
27.5°	5527.1	4352.1	3053.6	2585.8	2316.4	2151.7	2043.2	1960.9	1919.7	1844.9	1829.9
30°	5789.1	4262.3	2859.0	2331.3	2095.6	1927.2	1818.7	1758.8	1661.5	1642.8	1601.6
32.5°	5957.5	4288.5	2612.0	2084.4	1841.1	1691.4	1620.3	1560.5	1534.3	1444.5	1422.0
35°	6238.1	4198.7	2361.3	1856.1	1631.6	1515.6	1455.7	1437.0	1350.9	1309.7	1272.3
37.5°	6417.7	4146.3	2110.6	1597.9	1403.3	1354.6	1373.4	1294.8	1190.0	1111.4	1085.2
40°	6732.1	4127.6	1826.2	1384.6	1246.1	1234.9	1294.8	1145.1	954.2	886.9	849.5
42.5°	7184.9	4000.3	1605.4	1193.7	1122.6	1171.3	1182.5	954.2	845.7	789.6	763.4
45°	7619.0	4026.5	1388.3	987.9	976.7	1047.8	1021.6	808.3	744.7	703.5	726.0
47.5°	8453.5	4157.5	1175.0	823.3	879.4	946.8	793.3	722.2	662.4	632.4	636.2
50°	9744.5	4284.7	987.9	752.2	830.8	856.9	681.1	654.9	651.1	591.3	587.5
52.5°	10519.1	4236.1	954.2	842.0	890.6	856.9	740.9	722.2	692.3	666.1	636.2
55°	11750.3	4378.3	1025.3	984.2	1010.4	823.3	830.8	823.3	800.8	733.5	752.2
57.5°	12730.7	4471.8	1118.9	1100.2	1085.2	856.9	868.2	871.9	856.9	827.0	853.2
60°	14077.9	4658.9	1216.2	1219.9	1223.7	931.8	950.5	973.0	969.2	958.0	965.5
62.5°	14904.9	4572.9	1324.7	1384.6	1365.9	1085.2	1081.5	1096.4	1096.4	1115.2	1126.4
65°	14781.4	4254.8	1380.8	1530.5	1433.2	1197.5	1197.5	1205.0	1208.7	1246.1	1249.9
67°	14040.5	3686.0	1350.9	1553.0	1433.2	1242.4	1242.4	1249.9	1223.7	1321.0	1291.0
67.5°	13696.2	3517.6	1324.7	1534.3	1422.0	1238.6	1238.6	1242.4	1219.9	1313.5	1283.5
70°	11911.2	2612.0	1141.3	1358.4	1317.2	1205.0	1205.0	1182.5	1163.8	1287.3	1261.1
72.5°	10167.4	1897.3	916.8	1156.3	1190.0	1160.1	1167.5	1111.4	1059.0	1145.1	1122.6
75°	7787.4	1395.8	714.7	890.6	1006.6	1085.2	1133.9	991.7	924.3	946.8	905.6
77.5°	4344.6	909.3	565.1	658.6	767.1	1010.4	1089.0	894.4	755.9	729.7	729.7
80°	1474.4	531.4	415.4	490.2	527.6	894.4	1017.9	726.0	595.0	568.8	550.1
82.5°	557.6	325.6	284.4	336.8	336.8	707.3	830.8	557.6	449.1	580.0	591.3
85°	254.5	194.6	187.1	194.6	194.6	434.1	587.5	363.0	404.1	348.0	306.9
87.5°	101.0	93.6	86.1	82.3	67.4	74.8	202.1	97.3	183.4	48.6	44.9
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)