

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: P476893

Luminaire Tested: **IFLD-M-SA4E-727-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476893
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-727-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

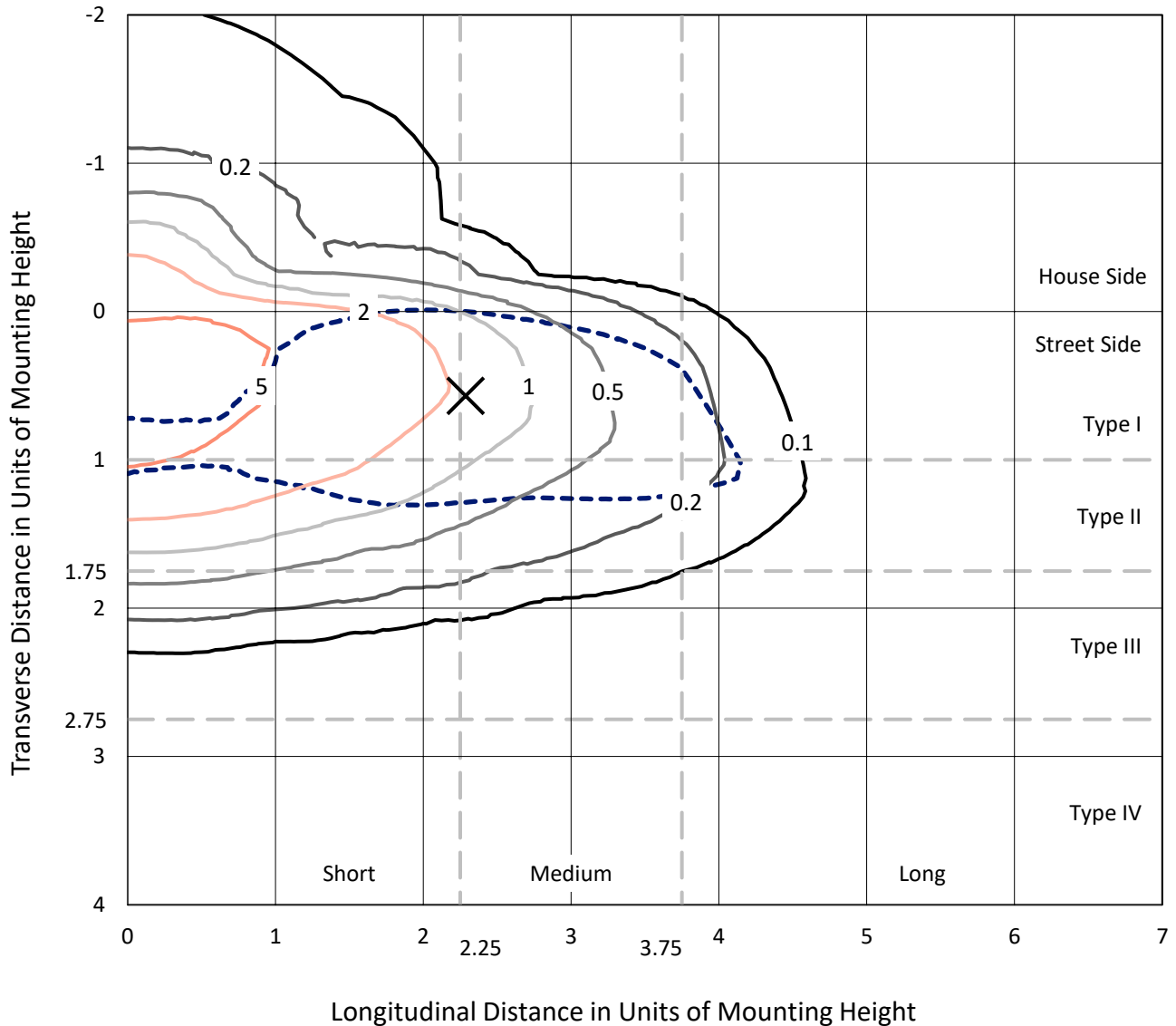
Lumens per Lamp: N/A
Luminaire Lumens: 30448.1 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8
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

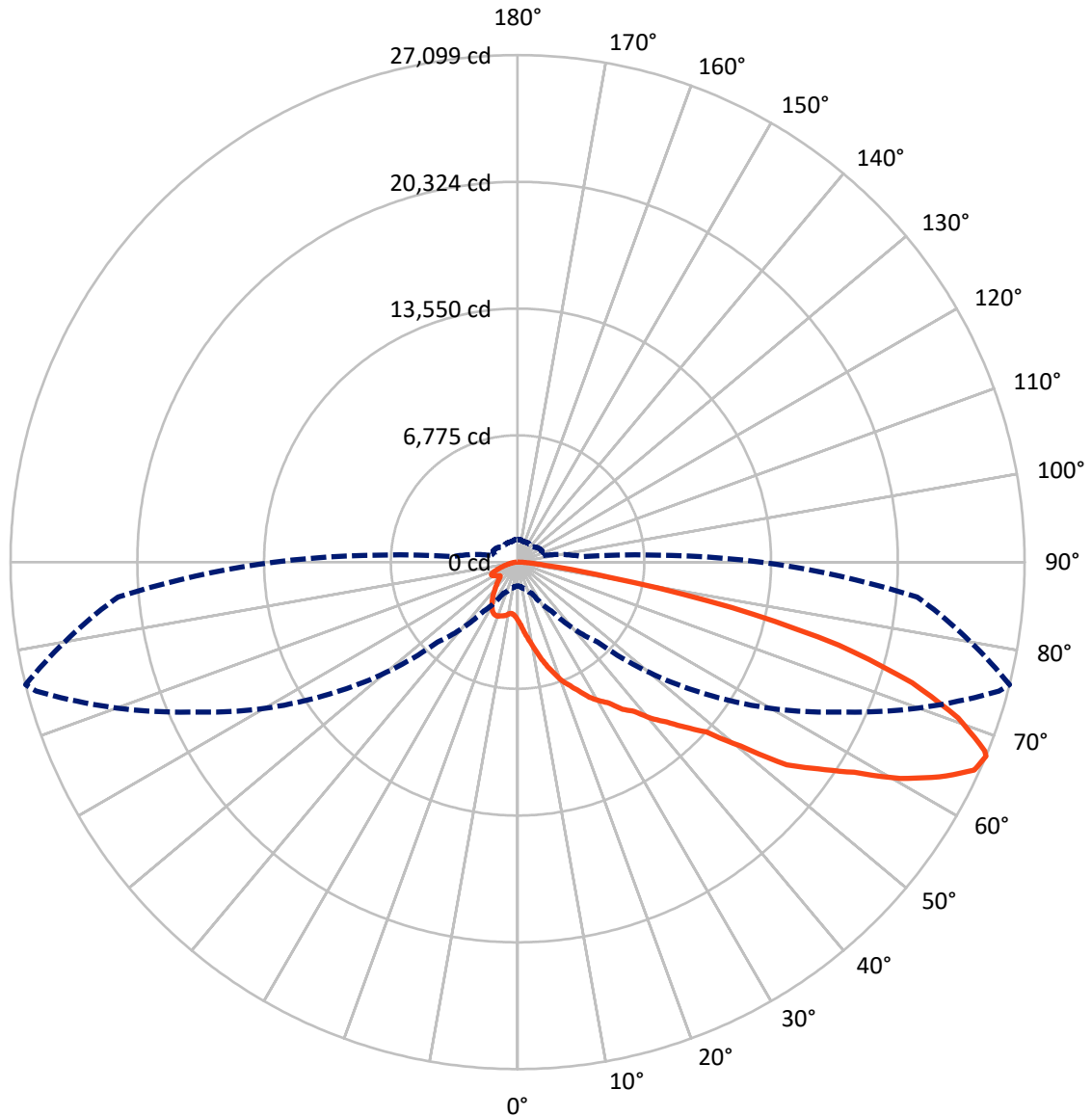
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 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	4331.6	0.0	4331.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	26116.5	0.0	26116.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	30448.1	0.0	30448.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.9	1.2
10°-20°	1353.7	4.4
20°-30°	2516.7	8.3
30°-40°	3989.5	13.1
40°-50°	5517.8	18.1
50°-60°	6787.3	22.3
60°-70°	6315.9	20.7
70°-80°	3169.3	10.4
80°-90°	437.0	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°	30448.1	100.0
0°-180°	30448.1	100.0

Coefficient of Utilization



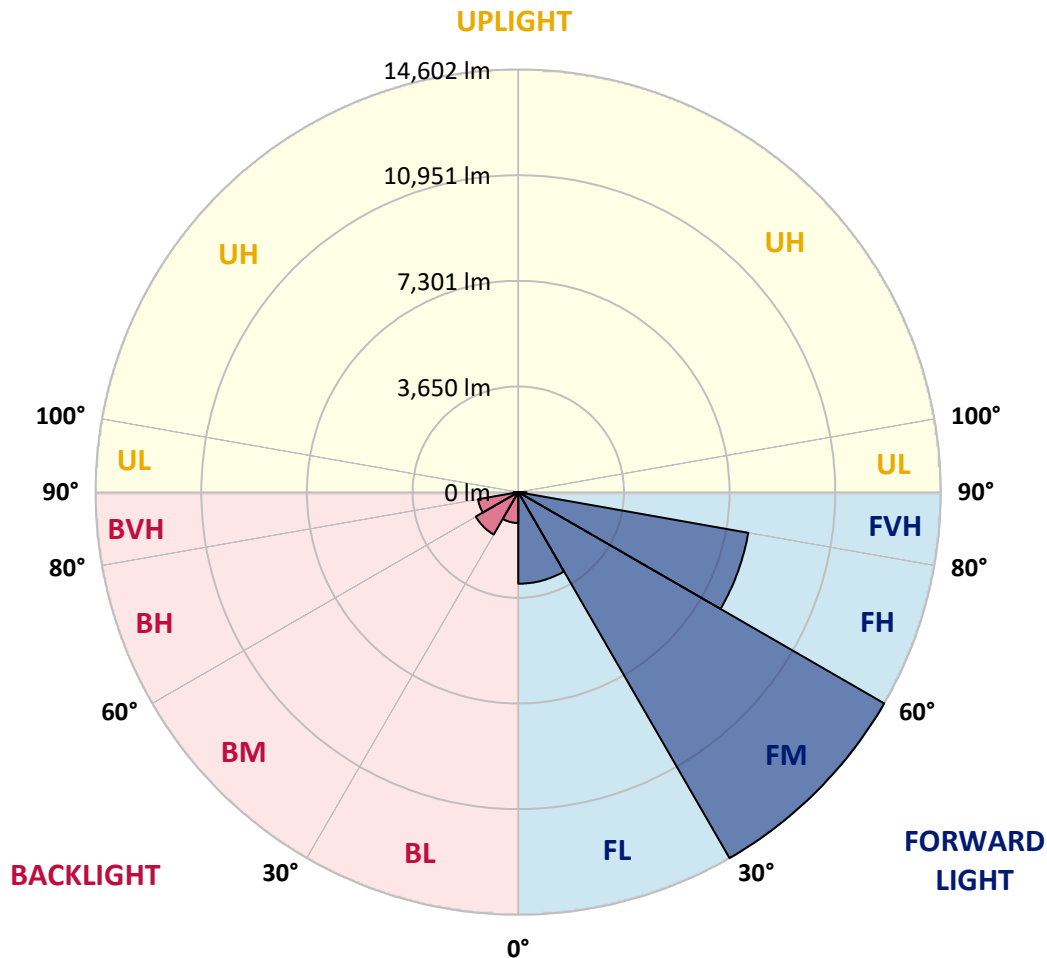
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3164.6	10.4			
FM (30°-60°)	14601.9	48.0			
FH (60°-80°)	8071.5	26.5			G4/12000
FVH (80°-90°)	278.4	0.9			G3/500
BL (0°-30°)	1066.7	3.5	B3/2500		
BM (30°-60°)	1692.7	5.6	B2/2500		
BH (60°-80°)	1413.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	158.6	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°	3115.9	3115.9	3115.9	3115.9	3115.9	3115.9	3115.9	3115.9	3115.9	3115.9	3115.9
2.5°	4323.4	4271.3	4219.3	4108.3	4070.1	3966.0	3775.2	3563.5	3390.0	3365.7	3244.3
5°	5364.3	5288.0	5270.6	5208.2	5010.4	4809.2	4496.9	4156.8	3733.5	3764.7	3348.4
7.5°	6145.0	6099.9	6006.3	5947.3	5829.3	5562.1	5239.4	4788.3	4250.5	4146.4	3580.8
10°	6734.9	6672.5	6669.0	6616.9	6554.5	6280.4	6034.0	5426.8	4736.3	4594.0	3865.4
12.5°	7033.3	7022.9	7206.8	7206.8	7182.5	7068.0	6644.7	6089.5	5197.8	5149.2	4195.0
15°	7356.0	7269.3	7428.9	7550.3	7612.8	7671.8	7321.3	6734.9	5787.7	5694.0	4548.9
17.5°	7356.0	7349.1	7508.7	7709.9	8036.1	8112.4	7921.6	7328.2	6276.9	6207.5	4937.5
20°	7231.1	7331.7	7442.8	7713.4	8067.3	8376.1	8431.7	7935.5	6818.2	6762.7	5378.2
22.5°	7814.0	7716.9	7831.4	7935.5	8209.6	8678.0	8830.7	8469.8	7387.2	7175.6	5777.2
25°	8792.5	8726.6	8643.3	8490.6	8605.1	8809.9	9042.3	8865.4	7873.0	7637.1	6162.4
27.5°	9746.7	9750.2	9569.8	9236.6	8990.3	9031.9	9306.0	9212.4	8282.4	8178.4	6426.1
30°	11103.4	11020.1	10818.9	10367.8	9885.5	9489.9	9444.8	9535.1	8802.9	8601.7	6804.3
32.5°	12120.1	12137.4	11852.9	11204.0	10544.8	10222.1	9826.5	9864.7	9132.6	8983.4	7106.2
35°	12942.4	12921.6	12720.3	12182.5	11401.8	11013.2	10478.8	10260.2	9899.4	9663.4	7567.7
37.5°	13830.7	13660.7	13334.5	12727.3	12227.6	11689.8	11169.3	10676.6	10409.4	10124.9	7963.2
40°	14188.1	14188.1	13750.9	13473.3	12880.0	12474.0	12137.4	11224.9	11030.5	10975.0	8469.8
42.5°	13934.8	14090.9	13910.5	13594.7	13351.8	12838.3	12748.1	11793.9	11797.4	11686.3	9077.0
45°	13910.5	13695.4	13546.2	13626.0	13511.5	13483.7	13712.7	12581.6	12602.4	12588.5	9892.4
47.5°	13213.1	13115.9	13338.0	13469.8	13563.5	13993.8	14653.0	13521.9	13671.1	13567.0	10832.8
50°	12519.1	12501.7	12640.5	13119.4	13525.3	14233.2	15548.2	14972.3	15461.5	15454.6	12536.4
52.5°	10617.6	10801.5	11346.3	12359.5	13362.3	14559.3	16224.9	16825.1	17758.5	18011.8	13948.7
55°	8799.5	8702.3	9507.3	10978.5	12650.9	14687.7	16981.3	17938.9	19313.0	19496.9	15399.0
57.5°	6845.9	7026.4	7661.4	9073.6	11179.7	14052.8	17536.4	19038.9	21068.7	21211.0	17081.9
60°	5107.6	5131.9	5829.3	6967.4	9222.8	12619.7	17716.9	20166.6	23081.2	23487.2	18844.6
62.5°	3213.0	3358.8	3889.7	5010.4	6943.1	10614.2	16908.4	20850.1	25190.9	25298.4	20621.1
65°	1731.4	1825.1	2224.2	2928.5	4850.8	8029.2	14764.1	20440.7	26183.2	26821.7	21412.2
67°	1280.4	1297.7	1481.6	1870.2	3244.3	6044.4	12310.9	18959.1	26634.3	27099.3	21443.5
67.5°	1200.6	1224.8	1370.6	1679.4	2876.5	5565.6	11669.0	18431.7	26433.1	26932.7	21200.6
70°	1027.1	1034.0	1068.7	1155.4	1613.5	3348.4	7945.9	15104.1	24500.4	24979.2	19496.9
72.5°	912.6	919.5	933.4	950.7	1093.0	1936.2	4833.5	11623.9	21294.3	22057.6	16821.7
75°	801.5	825.8	832.8	818.9	929.9	1259.5	2571.1	8542.7	17369.9	17741.2	13081.2
77.5°	680.1	690.5	704.4	718.3	829.3	940.3	1235.3	5766.8	11922.3	11696.7	7075.0
80°	572.5	576.0	586.4	596.8	718.3	718.3	700.9	3115.9	5208.2	4979.2	2390.7
82.5°	409.4	433.7	458.0	485.8	596.8	482.3	458.0	1387.9	1648.2	1568.4	808.5
85°	159.6	194.3	301.9	333.1	378.2	260.2	305.3	600.3	687.0	680.1	301.9
87.5°	27.8	31.2	83.3	128.4	138.8	90.2	145.7	215.1	256.8	277.6	111.0
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°	3115.9	3115.9	3115.9	3115.9	3115.9	3115.9	3115.9	3115.9	3115.9	3115.9	3115.9
2.5°	3143.7	3036.1	2907.7	2779.3	2696.0	2564.2	2553.8	2474.0	2463.6	2435.8	2449.7
5°	3167.9	3039.6	2779.3	2574.6	2480.9	2404.6	2421.9	2387.2	2376.8	2359.5	2331.7
7.5°	3358.8	3105.5	2716.9	2539.9	2470.5	2435.8	2435.8	2394.2	2362.9	2383.8	2404.6
10°	3483.7	3136.7	2765.4	2588.5	2533.0	2456.6	2484.4	2432.3	2449.7	2408.1	2408.1
12.5°	3684.9	3313.7	2866.1	2661.3	2571.1	2501.7	2529.5	2470.5	2456.6	2460.1	2449.7
15°	3955.6	3431.6	2911.2	2703.0	2640.5	2553.8	2533.0	2480.9	2428.9	2411.5	2432.3
17.5°	4208.9	3577.4	2942.4	2727.3	2626.7	2529.5	2505.2	2439.3	2421.9	2369.9	2328.2
20°	4510.8	3750.9	2984.0	2748.1	2574.6	2477.4	2415.0	2349.1	2290.1	2258.8	2272.7
22.5°	4712.0	3841.1	3004.9	2706.5	2498.3	2408.1	2276.2	2231.1	2147.8	2113.1	2085.4
25°	5041.6	3952.1	2952.8	2592.0	2362.9	2217.2	2099.2	2036.8	1977.8	1932.7	1918.8
27.5°	5124.9	4035.4	2831.4	2397.6	2147.8	1995.1	1894.5	1818.2	1780.0	1710.6	1696.7
30°	5367.8	3952.1	2650.9	2161.7	1943.1	1787.0	1686.3	1630.8	1540.6	1523.2	1485.1
32.5°	5523.9	3976.4	2421.9	1932.7	1707.1	1568.4	1502.4	1446.9	1422.6	1339.3	1318.5
35°	5784.2	3893.1	2189.5	1721.0	1512.8	1405.3	1349.8	1332.4	1252.6	1214.4	1179.7
37.5°	5950.7	3844.6	1957.0	1481.6	1301.2	1256.1	1273.4	1200.6	1103.4	1030.5	1006.2
40°	6242.2	3827.2	1693.3	1283.8	1155.4	1145.0	1200.6	1061.8	884.8	822.3	787.6
42.5°	6662.0	3709.2	1488.6	1106.9	1040.9	1086.1	1096.5	884.8	784.2	732.1	707.8
45°	7064.5	3733.5	1287.3	916.0	905.6	971.5	947.3	749.5	690.5	652.3	673.1
47.5°	7838.3	3855.0	1089.5	763.4	815.4	877.9	735.6	669.7	614.2	586.4	589.9
50°	9035.4	3972.9	916.0	697.4	770.3	794.6	631.5	607.2	603.7	548.2	544.8
52.5°	9753.7	3927.8	884.8	780.7	825.8	794.6	687.0	669.7	641.9	617.6	589.9
55°	10895.2	4059.7	950.7	912.6	936.9	763.4	770.3	763.4	742.5	680.1	697.4
57.5°	11804.3	4146.4	1037.5	1020.1	1006.2	794.6	805.0	808.5	794.6	766.8	791.1
60°	13053.4	4319.9	1127.7	1131.2	1134.6	864.0	881.3	902.2	898.7	888.3	895.2
62.5°	13820.3	4240.1	1228.3	1283.8	1266.5	1006.2	1002.8	1016.7	1016.7	1034.0	1044.4
65°	13705.8	3945.2	1280.4	1419.2	1328.9	1110.3	1110.3	1117.3	1120.8	1155.4	1158.9
67°	13018.7	3417.8	1252.6	1440.0	1328.9	1152.0	1152.0	1158.9	1134.6	1224.8	1197.1
67.5°	12699.5	3261.6	1228.3	1422.6	1318.5	1148.5	1148.5	1152.0	1131.2	1217.9	1190.1
70°	11044.4	2421.9	1058.3	1259.5	1221.4	1117.3	1117.3	1096.5	1079.1	1193.6	1169.3
72.5°	9427.5	1759.2	850.1	1072.2	1103.4	1075.6	1082.6	1030.5	982.0	1061.8	1040.9
75°	7220.7	1294.2	662.7	825.8	933.4	1006.2	1051.4	919.5	857.0	877.9	839.7
77.5°	4028.5	843.2	523.9	610.7	711.3	936.9	1009.7	829.3	700.9	676.6	676.6
80°	1367.1	492.7	385.1	454.5	489.2	829.3	943.8	673.1	551.7	527.4	510.1
82.5°	517.0	301.9	263.7	312.3	312.3	655.8	770.3	517.0	416.4	537.8	548.2
85°	235.9	180.4	173.5	180.4	180.4	402.5	544.8	336.6	374.7	322.7	284.5
87.5°	93.7	86.7	79.8	76.3	62.5	69.4	187.4	90.2	170.0	45.1	41.6
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)