

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: P476963

Luminaire Tested: **IFLD-S-SA6B-735-U-T2R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P476963
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-735-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

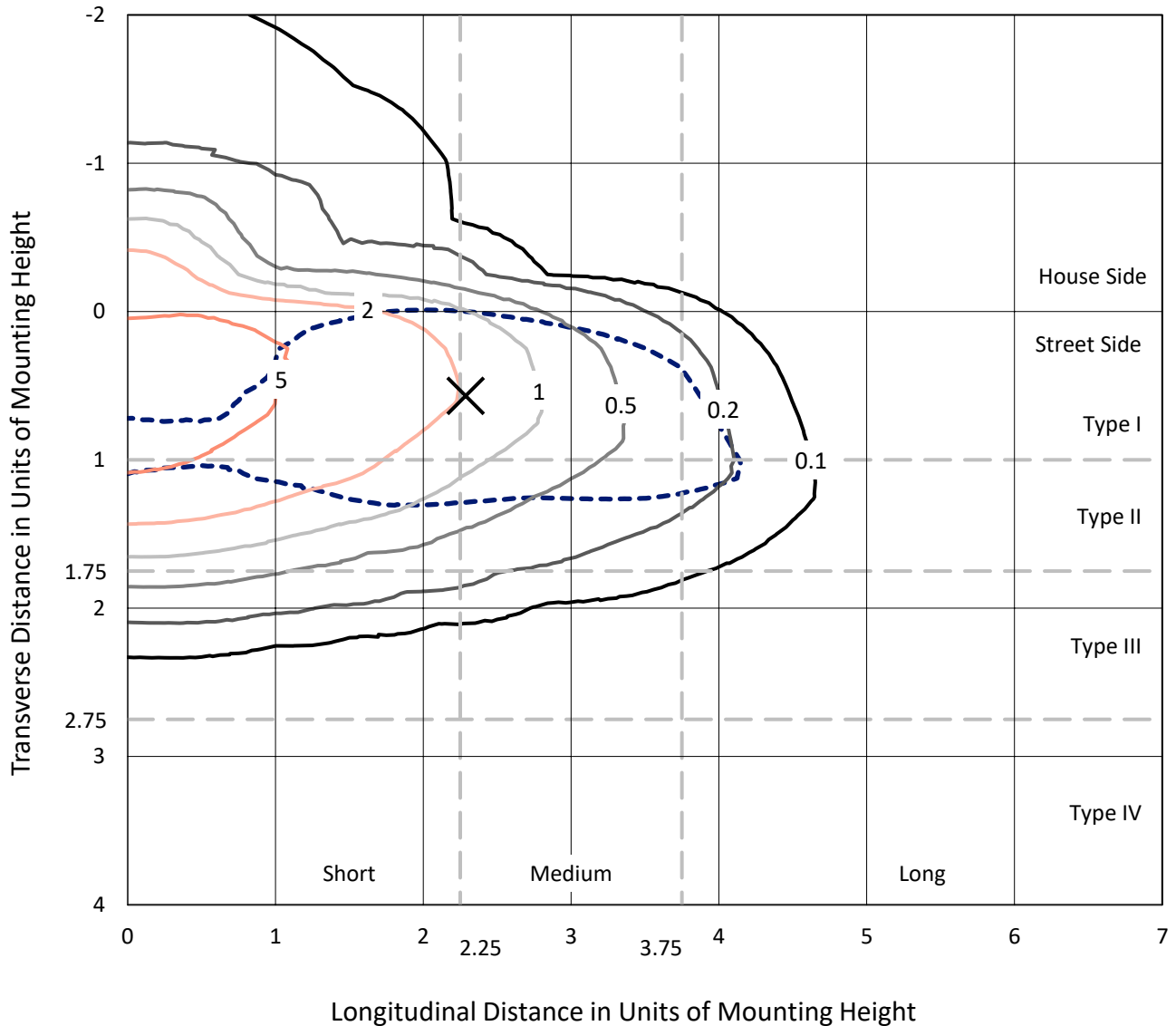
Lumens per Lamp: N/A
Luminaire Lumens: 33107.4 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

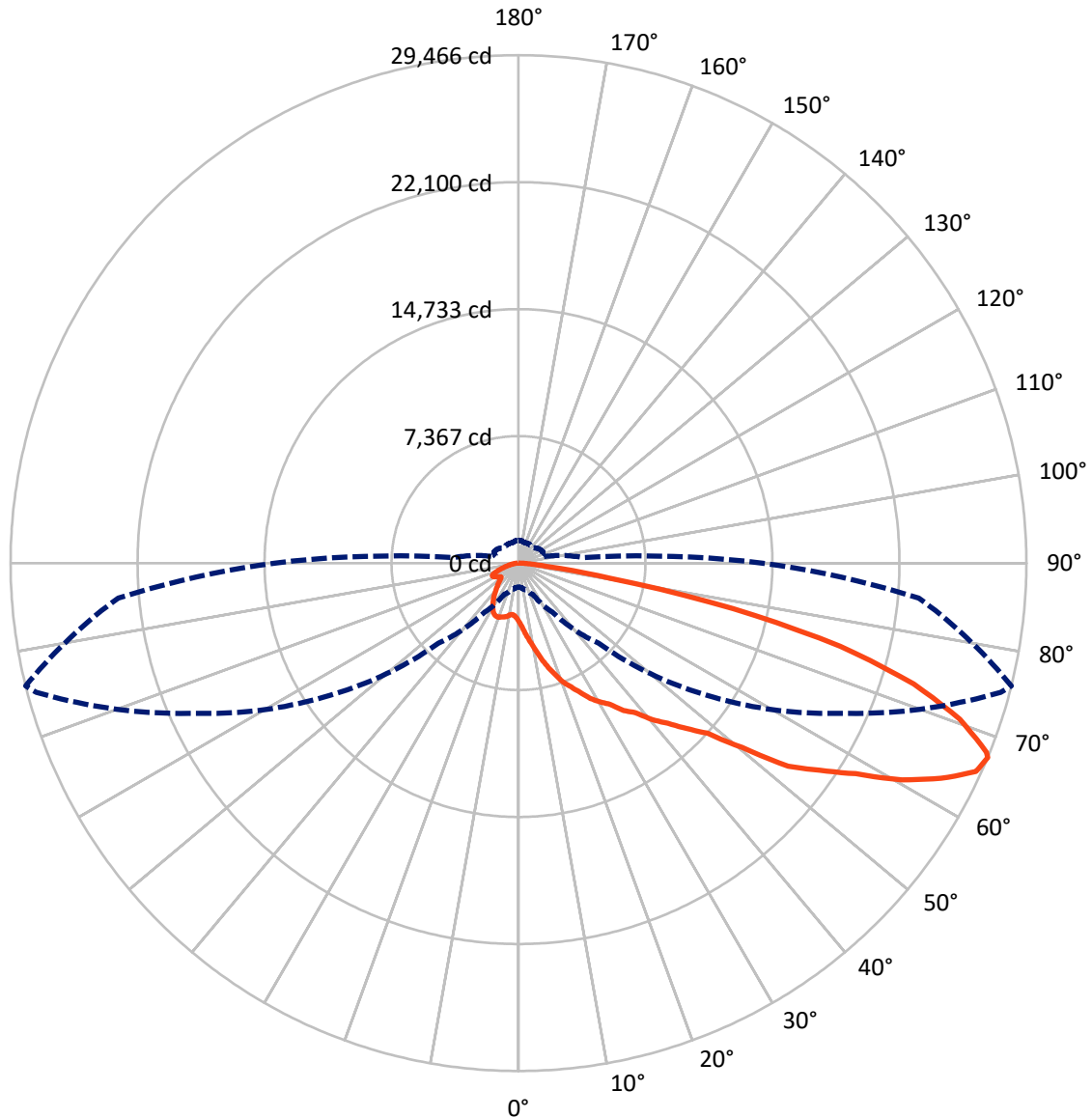
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 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	4709.9	0.0	4709.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	28397.5	0.0	28397.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	33107.4	0.0	33107.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.5	1.2
10°-20°	1471.9	4.4
20°-30°	2736.5	8.3
30°-40°	4337.9	13.1
40°-50°	5999.8	18.1
50°-60°	7380.1	22.3
60°-70°	6867.5	20.7
70°-80°	3446.1	10.4
80°-90°	475.2	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°	33107.4	100.0
0°-180°	33107.4	100.0

Coefficient of Utilization



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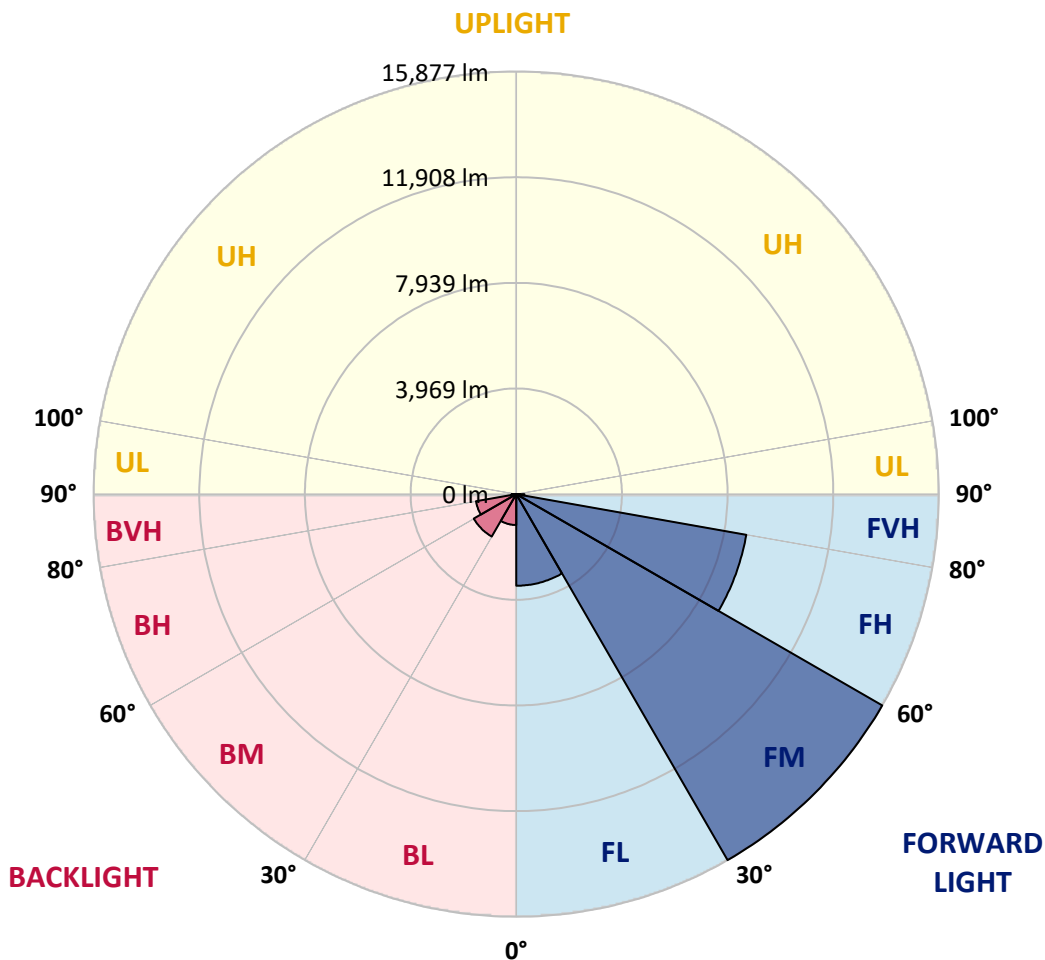
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3441.0	10.4			
FM (30°-60°)	15877.2	48.0			
FH (60°-80°)	8776.5	26.5			G4/12000
FVH (80°-90°)	302.7	0.9			G3/500
BL (0°-30°)	1159.9	3.5	B3/2500		
BM (30°-60°)	1840.6	5.6	B2/2500		
BH (60°-80°)	1537.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	172.4	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°	3388.0	3388.0	3388.0	3388.0	3388.0	3388.0	3388.0	3388.0	3388.0	3388.0	3388.0
2.5°	4701.0	4644.4	4587.8	4467.1	4425.6	4312.4	4104.9	3874.7	3686.1	3659.7	3527.6
5°	5832.9	5749.9	5731.0	5663.1	5448.0	5229.2	4889.6	4519.9	4059.6	4093.6	3640.8
7.5°	6681.8	6632.7	6530.8	6466.7	6338.4	6047.9	5697.0	5206.6	4621.8	4508.6	3893.6
10°	7323.1	7255.2	7251.5	7194.9	7127.0	6828.9	6561.0	5900.8	5150.0	4995.3	4203.0
12.5°	7647.6	7636.3	7836.2	7836.2	7809.8	7685.3	7225.0	6621.4	5651.8	5598.9	4561.4
15°	7998.5	7904.2	8077.7	8209.8	8277.7	8341.8	7960.8	7323.1	6293.1	6191.3	4946.2
17.5°	7998.5	7990.9	8164.5	8383.3	8738.0	8821.0	8613.5	7968.3	6825.1	6749.7	5368.8
20°	7862.7	7972.1	8092.8	8387.1	8771.9	9107.7	9168.1	8628.6	7413.7	7353.3	5847.9
22.5°	8496.5	8390.9	8515.4	8628.6	8926.6	9435.9	9602.0	9209.6	8032.4	7802.3	6281.8
25°	9560.5	9488.8	9398.2	9232.2	9356.7	9579.3	9832.1	9639.7	8560.6	8304.1	6700.6
27.5°	10598.0	10601.8	10405.6	10043.4	9775.5	9820.8	10118.8	10017.0	9005.8	8892.7	6987.4
30°	12073.2	11982.6	11763.8	11273.3	10748.9	10318.8	10269.8	10367.8	9571.8	9352.9	7398.6
32.5°	13178.6	13197.5	12888.1	12182.6	11465.7	11114.9	10684.8	10726.3	9930.2	9768.0	7726.8
35°	14072.8	14050.2	13831.3	13246.5	12397.6	11975.1	11394.1	11156.4	10764.0	10507.4	8228.6
37.5°	15038.7	14853.8	14499.1	13838.9	13295.6	12710.8	12144.9	11609.1	11318.6	11009.2	8658.7
40°	15427.3	15427.3	14951.9	14650.1	14004.9	13563.5	13197.5	12205.2	11994.0	11933.6	9209.6
42.5°	15151.8	15321.6	15125.4	14782.1	14518.0	13959.6	13861.5	12824.0	12827.8	12707.0	9869.8
45°	15125.4	14891.5	14729.3	14816.1	14691.6	14661.4	14910.4	13680.4	13703.1	13688.0	10756.5
47.5°	14367.1	14261.4	14502.9	14646.3	14748.1	15216.0	15932.8	14702.9	14865.1	14751.9	11778.9
50°	13612.5	13593.6	13744.6	14265.2	14706.6	15476.3	16906.2	16279.9	16811.9	16804.4	13631.4
52.5°	11545.0	11744.9	12337.3	13439.0	14529.3	15831.0	17641.9	18294.6	19309.5	19585.0	15166.9
55°	9568.0	9462.4	10337.7	11937.4	13755.9	15970.6	18464.4	19505.7	20999.8	21199.8	16744.0
57.5°	7443.9	7640.1	8330.5	9866.1	12156.2	15280.1	19068.1	20701.7	22908.9	23063.6	18573.8
60°	5553.7	5580.1	6338.4	7575.9	10028.3	13721.9	19264.3	21927.9	25097.1	25538.6	20490.5
62.5°	3493.7	3652.1	4229.4	5448.0	7549.5	11541.2	18385.2	22671.2	27391.0	27508.0	22422.2
65°	1882.7	1984.5	2418.4	3184.3	5274.5	8730.4	16053.6	22226.0	28470.1	29164.3	23282.4
67°	1392.2	1411.1	1611.0	2033.6	3527.6	6572.3	13386.1	20615.0	28960.5	29466.1	23316.3
67.5°	1305.4	1331.8	1490.3	1826.1	3127.7	6051.7	12688.2	20041.5	28741.7	29285.0	23052.2
70°	1116.8	1124.3	1162.0	1256.4	1754.4	3640.8	8639.9	16423.3	26640.2	27160.9	21199.8
72.5°	992.3	999.8	1014.9	1033.8	1188.5	2105.3	5255.6	12639.1	23154.1	23984.1	18290.9
75°	871.5	897.9	905.5	890.4	1011.1	1369.6	2795.7	9288.8	18887.0	19290.7	14223.7
77.5°	739.5	750.8	765.9	781.0	901.7	1022.4	1343.1	6270.5	12963.6	12718.3	7692.9
80°	622.5	626.3	637.6	648.9	781.0	781.0	762.1	3388.0	5663.1	5414.1	2599.5
82.5°	445.2	471.6	498.0	528.2	648.9	524.4	498.0	1509.1	1792.1	1705.3	879.1
85°	173.6	211.3	328.2	362.2	411.2	283.0	332.0	652.7	747.0	739.5	328.2
87.5°	30.2	34.0	90.5	139.6	150.9	98.1	158.5	233.9	279.2	301.8	120.7
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°	3388.0	3388.0	3388.0	3388.0	3388.0	3388.0	3388.0	3388.0	3388.0	3388.0	3388.0
2.5°	3418.2	3301.3	3161.7	3022.1	2931.5	2788.2	2776.8	2690.1	2678.7	2648.6	2663.6
5°	3444.6	3305.0	3022.1	2799.5	2697.6	2614.6	2633.5	2595.7	2584.4	2565.6	2535.4
7.5°	3652.1	3376.7	2954.2	2761.7	2686.3	2648.6	2648.6	2603.3	2569.3	2592.0	2614.6
10°	3788.0	3410.7	3007.0	2814.6	2754.2	2671.2	2701.4	2644.8	2663.6	2618.4	2618.4
12.5°	4006.8	3603.1	3116.4	2893.8	2795.7	2720.2	2750.4	2686.3	2671.2	2675.0	2663.6
15°	4301.1	3731.4	3165.4	2939.1	2871.2	2776.8	2754.2	2697.6	2641.0	2622.1	2644.8
17.5°	4576.5	3889.8	3199.4	2965.5	2856.1	2750.4	2724.0	2652.3	2633.5	2576.9	2531.6
20°	4904.7	4078.5	3244.7	2988.1	2799.5	2693.8	2625.9	2554.2	2490.1	2456.1	2471.2
22.5°	5123.6	4176.6	3267.3	2942.8	2716.5	2618.4	2475.0	2426.0	2335.4	2297.7	2267.5
25°	5482.0	4297.3	3210.7	2818.3	2569.3	2410.9	2282.6	2214.7	2150.5	2101.5	2086.4
27.5°	5572.5	4387.8	3078.7	2607.1	2335.4	2169.4	2060.0	1977.0	1935.5	1860.0	1844.9
30°	5836.6	4297.3	2882.5	2350.5	2112.8	1943.0	1833.6	1773.2	1675.2	1656.3	1614.8
32.5°	6006.4	4323.7	2633.5	2101.5	1856.3	1705.3	1633.7	1573.3	1546.9	1456.3	1433.7
35°	6289.4	4233.2	2380.7	1871.3	1645.0	1528.0	1467.6	1448.8	1362.0	1320.5	1282.8
37.5°	6470.5	4180.3	2127.9	1611.0	1414.8	1365.8	1384.6	1305.4	1199.8	1120.5	1094.1
40°	6787.4	4161.5	1841.2	1396.0	1256.4	1245.0	1305.4	1154.5	962.1	894.2	856.4
42.5°	7243.9	4033.2	1618.6	1203.5	1131.9	1180.9	1192.2	962.1	852.7	796.1	769.7
45°	7681.6	4059.6	1399.7	996.0	984.7	1056.4	1030.0	814.9	750.8	709.3	731.9
47.5°	8522.9	4191.7	1184.7	830.0	886.6	954.5	799.8	728.2	667.8	637.6	641.4
50°	9824.6	4319.9	996.0	758.3	837.6	864.0	686.7	660.3	656.5	596.1	592.3
52.5°	10605.5	4270.9	962.1	848.9	897.9	864.0	747.0	728.2	698.0	671.6	641.4
55°	11846.8	4414.3	1033.8	992.3	1018.7	830.0	837.6	830.0	807.4	739.5	758.3
57.5°	12835.3	4508.6	1128.1	1109.2	1094.1	864.0	875.3	879.1	864.0	833.8	860.2
60°	14193.5	4697.2	1226.2	1230.0	1233.7	939.4	958.3	980.9	977.2	965.9	973.4
62.5°	15027.3	4610.4	1335.6	1396.0	1377.1	1094.1	1090.4	1105.5	1105.5	1124.3	1135.6
65°	14902.8	4289.8	1392.2	1543.1	1445.0	1207.3	1207.3	1214.9	1218.6	1256.4	1260.1
67°	14155.8	3716.3	1362.0	1565.7	1445.0	1252.6	1252.6	1260.1	1233.7	1331.8	1301.6
67.5°	13808.7	3546.5	1335.6	1546.9	1433.7	1248.8	1248.8	1252.6	1230.0	1324.3	1294.1
70°	12009.0	2633.5	1150.7	1369.6	1328.1	1214.9	1214.9	1192.2	1173.4	1297.9	1271.5
72.5°	10250.9	1912.8	924.4	1165.8	1199.8	1169.6	1177.1	1120.5	1067.7	1154.5	1131.9
75°	7851.3	1407.3	720.6	897.9	1014.9	1094.1	1143.2	999.8	931.9	954.5	913.0
77.5°	4380.3	916.8	569.7	664.0	773.4	1018.7	1097.9	901.7	762.1	735.7	735.7
80°	1486.5	535.7	418.8	494.2	532.0	901.7	1026.2	731.9	599.9	573.5	554.6
82.5°	562.2	328.2	286.7	339.6	339.6	713.1	837.6	562.2	452.7	584.8	596.1
85°	256.6	196.2	188.6	196.2	196.2	437.7	592.3	366.0	407.5	350.9	309.4
87.5°	101.9	94.3	86.8	83.0	67.9	75.5	203.7	98.1	184.9	49.0	45.3
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)