

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: P477051

Luminaire Tested: **IFLD-L-SA7B-750-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477051
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-750-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

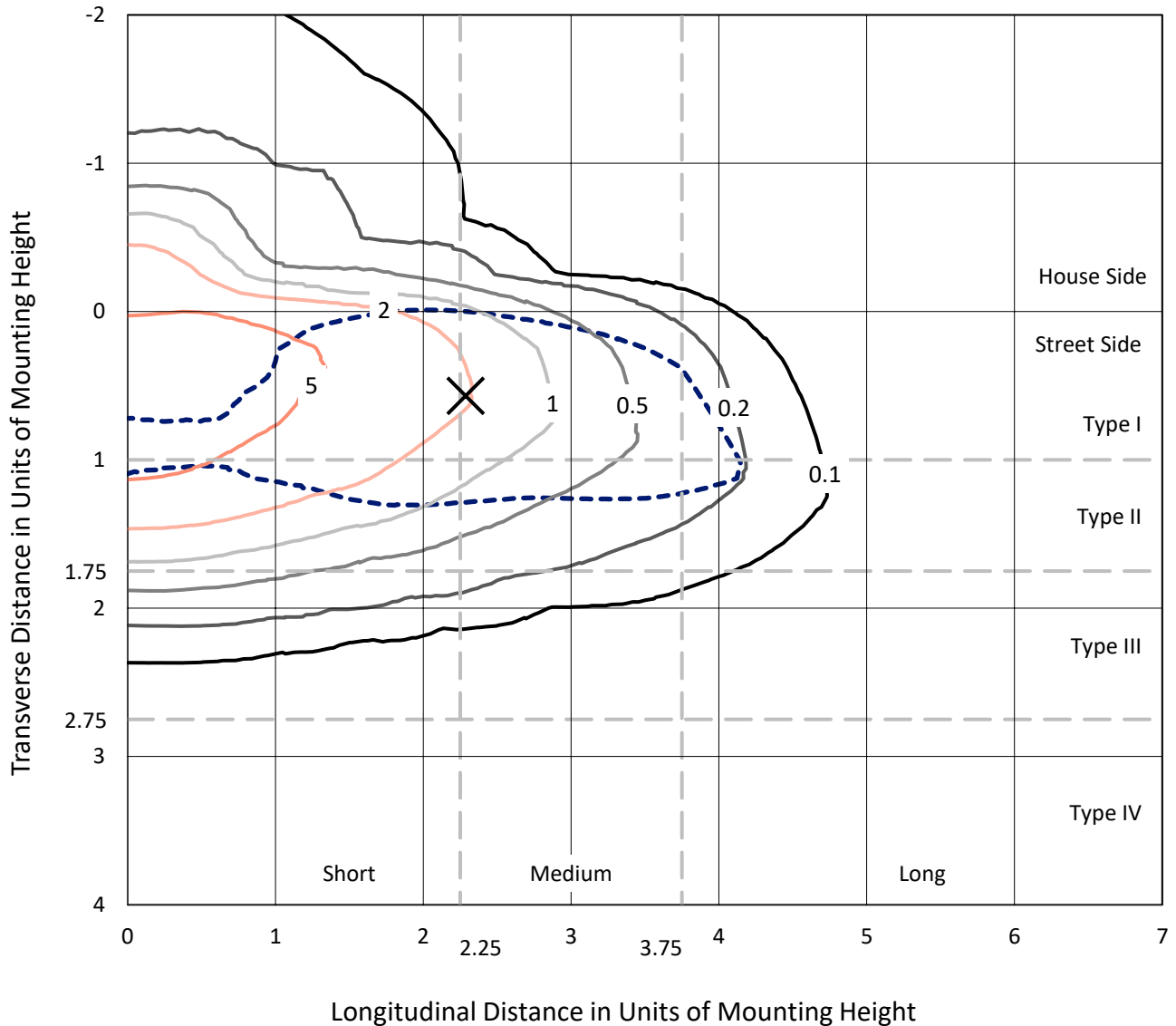
Lumens per Lamp: N/A
Luminaire Lumens: 36632.3 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

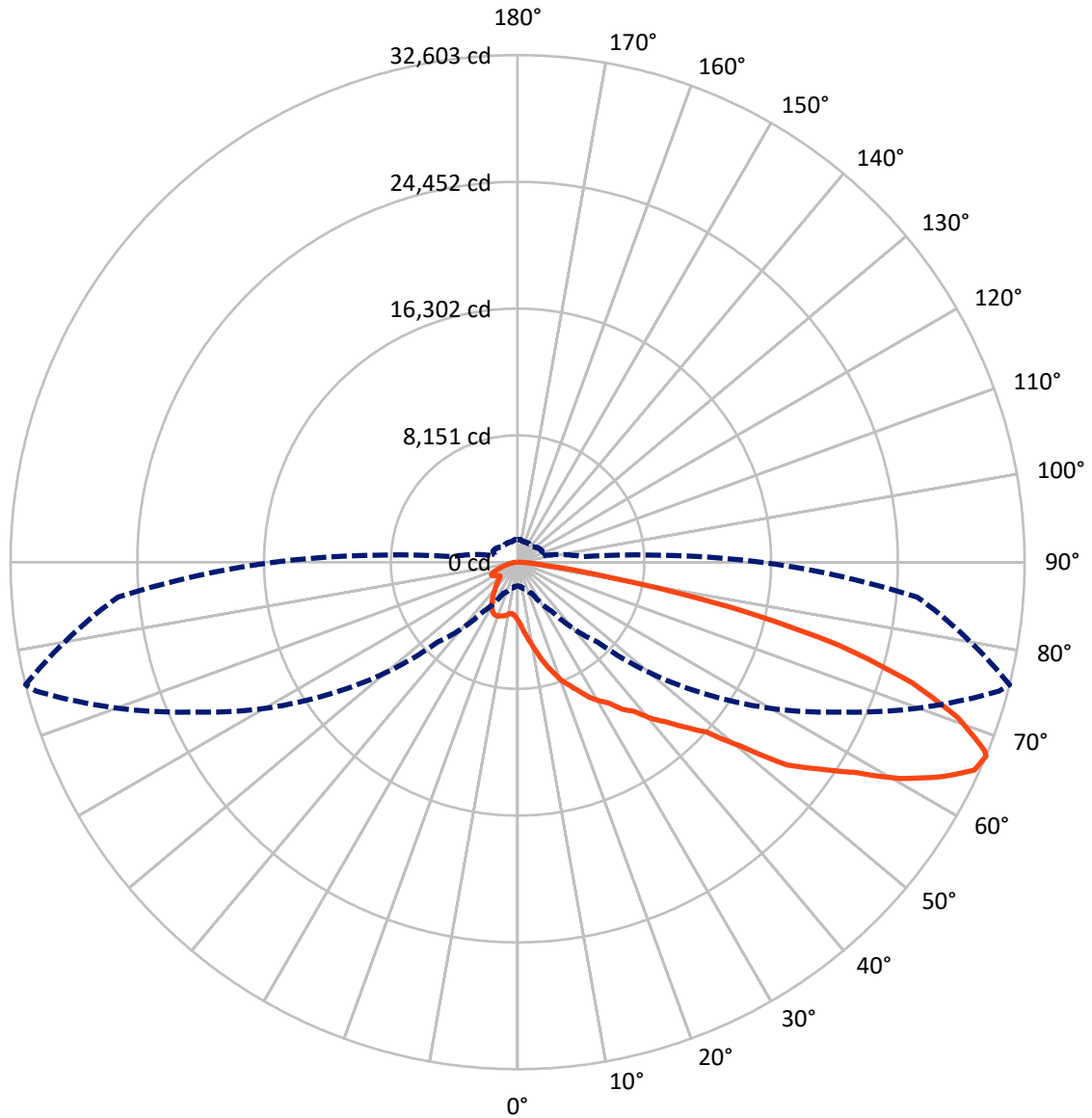
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.7 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	5211.4	0.0	5211.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	31420.9	0.0	31420.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	36632.3	0.0	36632.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.2	1.2
10°-20°	1628.6	4.4
20°-30°	3027.8	8.3
30°-40°	4799.8	13.1
40°-50°	6638.6	18.1
50°-60°	8165.8	22.3
60°-70°	7598.7	20.7
70°-80°	3813.0	10.4
80°-90°	525.8	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°	36632.3	100.0
0°-180°	36632.3	100.0

Coefficient of Utilization



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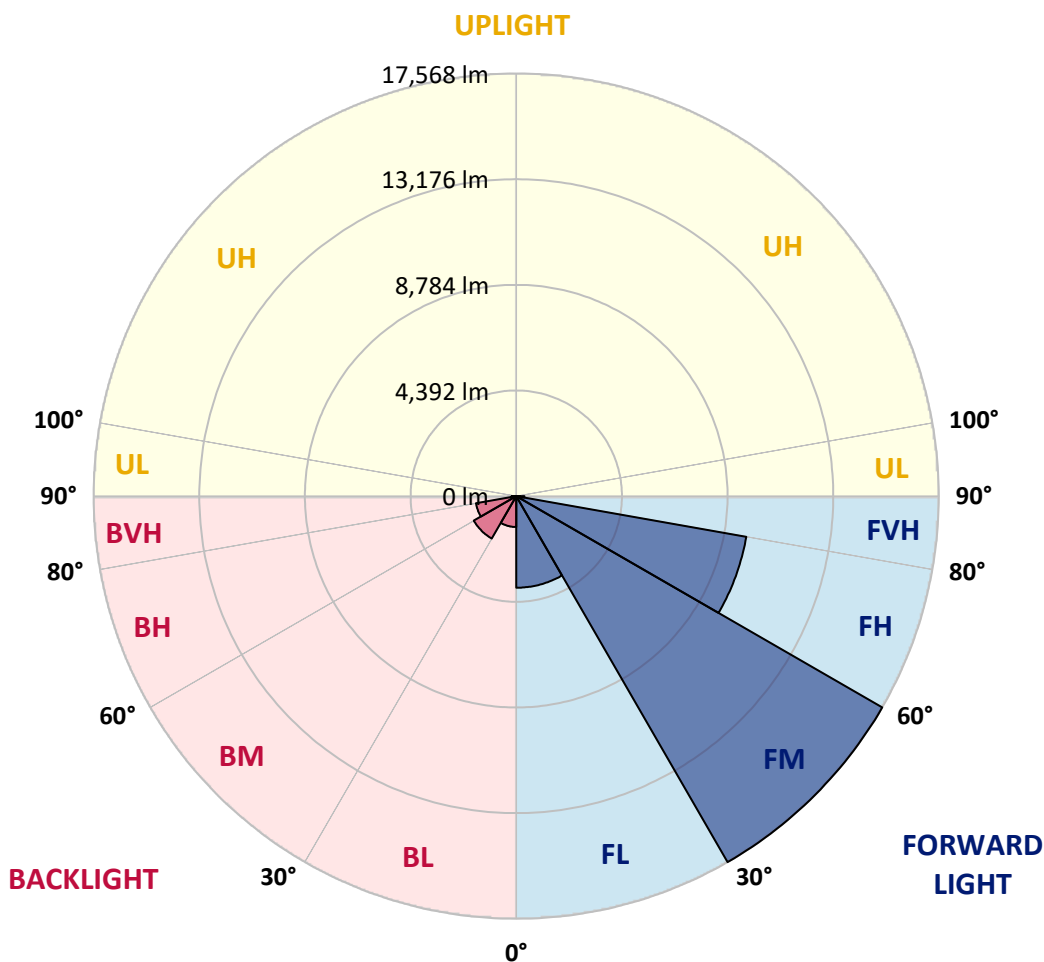
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3807.3	10.4			
FM (30°-60°)	17567.7	48.0			
FH (60°-80°)	9710.9	26.5			G4/12000
FVH (80°-90°)	335.0	0.9			G3/500
BL (0°-30°)	1283.4	3.5	B3/2500		
BM (30°-60°)	2036.5	5.6	B2/2500		
BH (60°-80°)	1700.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	190.8	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°	3748.8	3748.8	3748.8	3748.8	3748.8	3748.8	3748.8	3748.8	3748.8	3748.8	3748.8
2.5°	5201.5	5138.9	5076.3	4942.7	4896.8	4771.5	4541.9	4287.3	4078.5	4049.3	3903.2
5°	6453.9	6362.0	6341.2	6266.0	6028.1	5785.9	5410.2	5001.1	4491.8	4529.4	4028.5
7.5°	7393.2	7338.9	7226.2	7155.2	7013.3	6691.8	6303.6	5760.9	5113.8	4988.6	4308.2
10°	8102.8	8027.7	8023.5	7960.9	7885.8	7556.0	7259.6	6529.0	5698.3	5527.1	4650.5
12.5°	8461.8	8449.3	8670.6	8670.6	8641.3	8503.6	7994.3	7326.4	6253.5	6195.1	5047.0
15°	8850.1	8745.7	8937.7	9083.9	9159.0	9230.0	8808.3	8102.8	6963.2	6850.5	5472.9
17.5°	8850.1	8841.7	9033.8	9275.9	9668.3	9760.1	9530.5	8816.7	7551.8	7468.3	5940.4
20°	8699.8	8820.9	8954.4	9280.1	9705.9	10077.4	10144.2	9547.2	8203.0	8136.2	6470.6
22.5°	9401.1	9284.2	9422.0	9547.2	9877.0	10440.6	10624.3	10190.1	8887.6	8633.0	6950.6
25°	10578.3	10499.0	10398.8	10215.2	10352.9	10599.2	10878.9	10666.0	9472.1	9188.2	7414.0
27.5°	11726.4	11730.5	11513.4	11112.7	10816.3	10866.4	11196.2	11083.5	9964.7	9839.4	7731.3
30°	13358.6	13258.4	13016.3	12473.6	11893.3	11417.4	11363.2	11471.7	10590.9	10348.7	8186.3
32.5°	14581.8	14602.6	14260.3	13479.7	12686.5	12298.3	11822.4	11868.3	10987.5	10807.9	8549.5
35°	15571.1	15546.1	15304.0	14656.9	13717.6	13250.1	12607.2	12344.2	11910.0	11626.2	9104.7
37.5°	16639.8	16435.3	16042.9	15312.3	14711.2	14064.1	13437.9	12845.1	12523.7	12181.4	9580.6
40°	17069.8	17069.8	16543.8	16209.8	15496.0	15007.6	14602.6	13504.7	13270.9	13204.1	10190.1
42.5°	16765.0	16952.9	16735.8	16355.9	16063.7	15445.9	15337.3	14189.3	14193.5	14059.9	10920.7
45°	16735.8	16477.0	16297.5	16393.5	16255.8	16222.4	16497.9	15137.0	15162.0	15145.3	11901.7
47.5°	15896.7	15779.9	16047.0	16205.7	16318.4	16836.0	17629.2	16268.3	16447.8	16322.5	13033.0
50°	15061.8	15041.0	15207.9	15784.0	16272.5	17124.1	18706.2	18013.2	18601.9	18593.5	15082.7
52.5°	12774.2	12995.4	13650.8	14869.8	16076.2	17516.5	19520.3	20242.5	21365.4	21670.2	16781.7
55°	10586.7	10469.8	11438.3	13208.3	15220.5	17670.9	20430.3	21582.5	23235.6	23456.9	18526.7
57.5°	8236.4	8453.5	9217.4	10916.5	13450.4	16907.0	21098.2	22905.8	25348.0	25519.1	20551.4
60°	6145.0	6174.2	7013.3	8382.5	11096.0	15182.9	21315.3	24262.6	27769.2	28257.6	22672.1
62.5°	3865.6	4041.0	4679.7	6028.1	8353.3	12770.0	20342.7	25085.0	30307.3	30436.7	24809.4
65°	2083.1	2195.8	2675.9	3523.3	5836.0	9659.9	17762.8	24592.4	31501.3	32269.4	25761.2
67°	1540.4	1561.3	1782.5	2250.1	3903.2	7272.1	14811.4	22809.8	32044.0	32603.3	25798.8
67.5°	1444.4	1473.6	1649.0	2020.5	3460.7	6696.0	14039.1	22175.3	31801.8	32403.0	25506.6
70°	1235.7	1244.0	1285.8	1390.1	1941.2	4028.5	9559.8	18171.9	29476.6	30052.7	23456.9
72.5°	1097.9	1106.3	1123.0	1143.8	1315.0	2329.4	5815.2	13984.8	25619.3	26537.7	20238.3
75°	964.3	993.5	1001.9	985.2	1118.8	1515.4	3093.4	10277.8	20897.9	21344.5	15738.1
77.5°	818.2	830.7	847.4	864.1	997.7	1131.3	1486.1	6938.1	14343.8	14072.5	8511.9
80°	688.8	693.0	705.5	718.0	864.1	864.1	843.3	3748.8	6266.0	5990.5	2876.3
82.5°	492.6	521.8	551.0	584.4	718.0	580.3	551.0	1669.8	1982.9	1886.9	972.7
85°	192.0	233.8	363.2	400.8	455.0	313.1	367.4	722.2	826.6	818.2	363.2
87.5°	33.4	37.6	100.2	154.5	167.0	108.5	175.3	258.8	308.9	334.0	133.6
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°	3748.8	3748.8	3748.8	3748.8	3748.8	3748.8	3748.8	3748.8	3748.8	3748.8	3748.8
2.5°	3782.2	3652.7	3498.3	3343.8	3243.6	3085.0	3072.5	2976.5	2963.9	2930.5	2947.2
5°	3811.4	3656.9	3343.8	3097.5	2984.8	2893.0	2913.8	2872.1	2859.6	2838.7	2805.3
7.5°	4041.0	3736.2	3268.7	3055.8	2972.3	2930.5	2930.5	2880.4	2842.9	2867.9	2893.0
10°	4191.3	3773.8	3327.1	3114.2	3047.4	2955.6	2989.0	2926.4	2947.2	2897.1	2897.1
12.5°	4433.4	3986.7	3448.2	3201.9	3093.4	3009.9	3043.3	2972.3	2955.6	2959.8	2947.2
15°	4759.0	4128.6	3502.5	3252.0	3176.8	3072.5	3047.4	2984.8	2922.2	2901.3	2926.4
17.5°	5063.7	4304.0	3540.0	3281.2	3160.1	3043.3	3014.0	2934.7	2913.8	2851.2	2801.1
20°	5426.9	4512.7	3590.1	3306.3	3097.5	2980.6	2905.5	2826.2	2755.2	2717.6	2734.3
22.5°	5669.1	4621.2	3615.2	3256.2	3005.7	2897.1	2738.5	2684.2	2584.1	2542.3	2508.9
25°	6065.6	4754.8	3552.6	3118.4	2842.9	2667.5	2525.6	2450.5	2379.5	2325.2	2308.5
27.5°	6165.8	4855.0	3406.4	2884.6	2584.1	2400.4	2279.3	2187.5	2141.6	2058.1	2041.4
30°	6458.1	4754.8	3189.4	2600.8	2337.8	2149.9	2028.8	1962.0	1853.5	1832.6	1786.7
32.5°	6645.9	4784.1	2913.8	2325.2	2053.9	1886.9	1807.6	1740.8	1711.6	1611.4	1586.3
35°	6959.0	4683.9	2634.2	2070.6	1820.1	1690.7	1623.9	1603.0	1507.0	1461.1	1419.4
37.5°	7159.4	4625.4	2354.5	1782.5	1565.5	1511.2	1532.1	1444.4	1327.5	1239.8	1210.6
40°	7510.0	4604.5	2037.2	1544.6	1390.1	1377.6	1444.4	1277.4	1064.5	989.4	947.6
42.5°	8015.2	4462.6	1790.9	1331.7	1252.4	1306.6	1319.2	1064.5	943.5	880.8	851.6
45°	8499.4	4491.8	1548.8	1102.1	1089.6	1168.9	1139.7	901.7	830.7	784.8	809.9
47.5°	9430.3	4637.9	1310.8	918.4	981.0	1056.2	885.0	805.7	738.9	705.5	709.7
50°	10870.6	4779.9	1102.1	839.1	926.8	956.0	759.8	730.5	726.4	659.6	655.4
52.5°	11734.7	4725.6	1064.5	939.3	993.5	956.0	826.6	805.7	772.3	743.1	709.7
55°	13108.1	4884.2	1143.8	1097.9	1127.1	918.4	926.8	918.4	893.4	818.2	839.1
57.5°	14201.9	4988.6	1248.2	1227.3	1210.6	956.0	968.5	972.7	956.0	922.6	951.8
60°	15704.7	5197.3	1356.7	1360.9	1365.1	1039.5	1060.3	1085.4	1081.2	1068.7	1077.0
62.5°	16627.3	5101.3	1477.8	1544.6	1523.7	1210.6	1206.4	1223.1	1223.1	1244.0	1256.5
65°	16489.5	4746.5	1540.4	1707.4	1598.9	1335.9	1335.9	1344.2	1348.4	1390.1	1394.3
67°	15663.0	4111.9	1507.0	1732.4	1598.9	1386.0	1386.0	1394.3	1365.1	1473.6	1440.2
67.5°	15278.9	3924.1	1477.8	1711.6	1586.3	1381.8	1381.8	1386.0	1360.9	1465.3	1431.9
70°	13287.6	2913.8	1273.2	1515.4	1469.4	1344.2	1344.2	1319.2	1298.3	1436.1	1406.8
72.5°	11342.3	2116.5	1022.8	1289.9	1327.5	1294.1	1302.5	1239.8	1181.4	1277.4	1252.4
75°	8687.3	1557.1	797.3	993.5	1123.0	1210.6	1264.9	1106.3	1031.1	1056.2	1010.2
77.5°	4846.7	1014.4	630.4	734.7	855.8	1127.1	1214.8	997.7	843.3	814.0	814.0
80°	1644.8	592.8	463.4	546.9	588.6	997.7	1135.5	809.9	663.8	634.5	613.7
82.5°	622.0	363.2	317.3	375.7	375.7	789.0	926.8	622.0	500.9	647.1	659.6
85°	283.9	217.1	208.7	217.1	217.1	484.2	655.4	404.9	450.9	388.2	342.3
87.5°	112.7	104.4	96.0	91.8	75.1	83.5	225.4	108.5	204.6	54.3	50.1
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)