

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: P477087

Luminaire Tested: **IFLD-M-SA4D-760-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477087
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-760-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

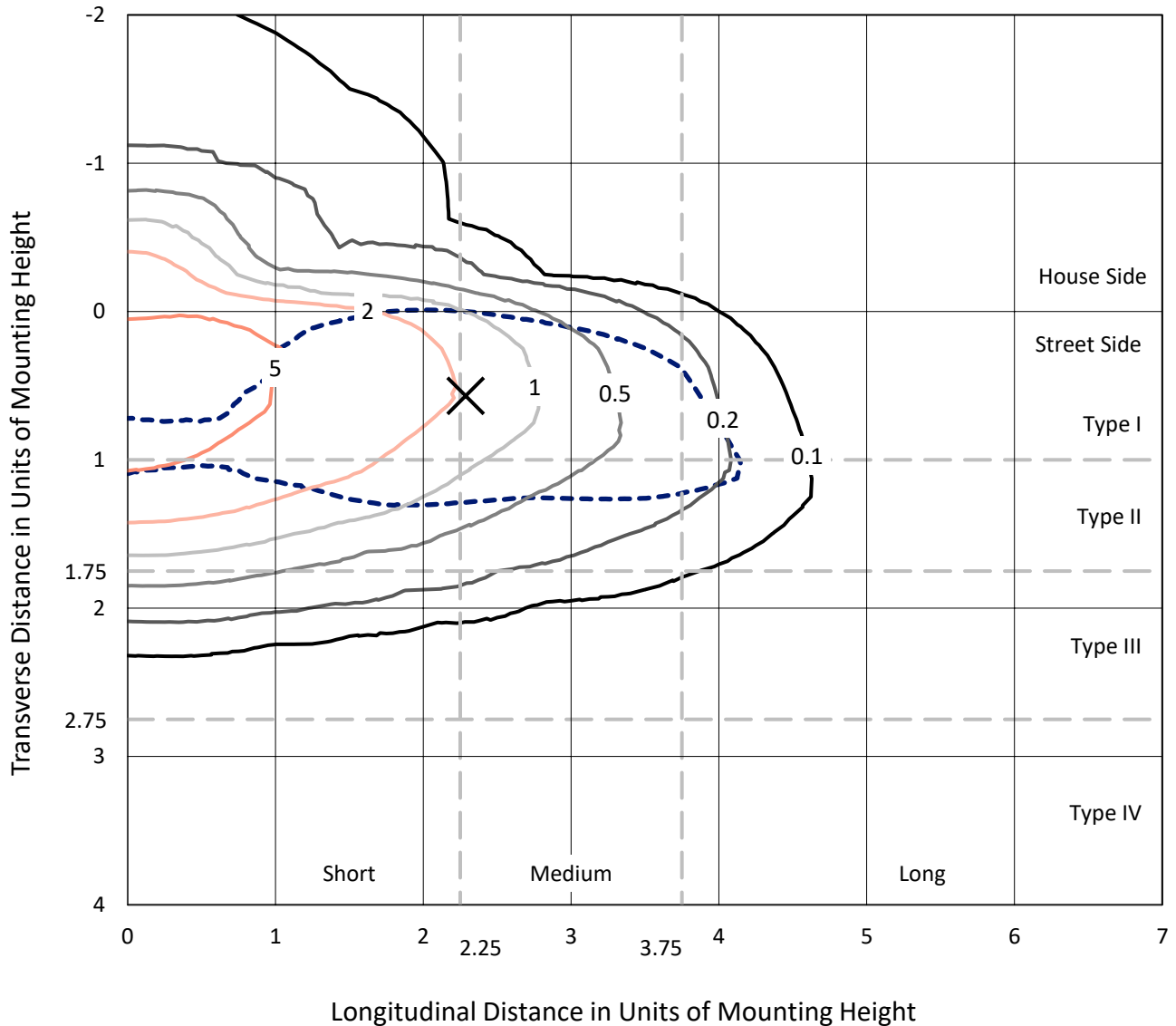
Lumens per Lamp: N/A
Luminaire Lumens: 32180.2 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

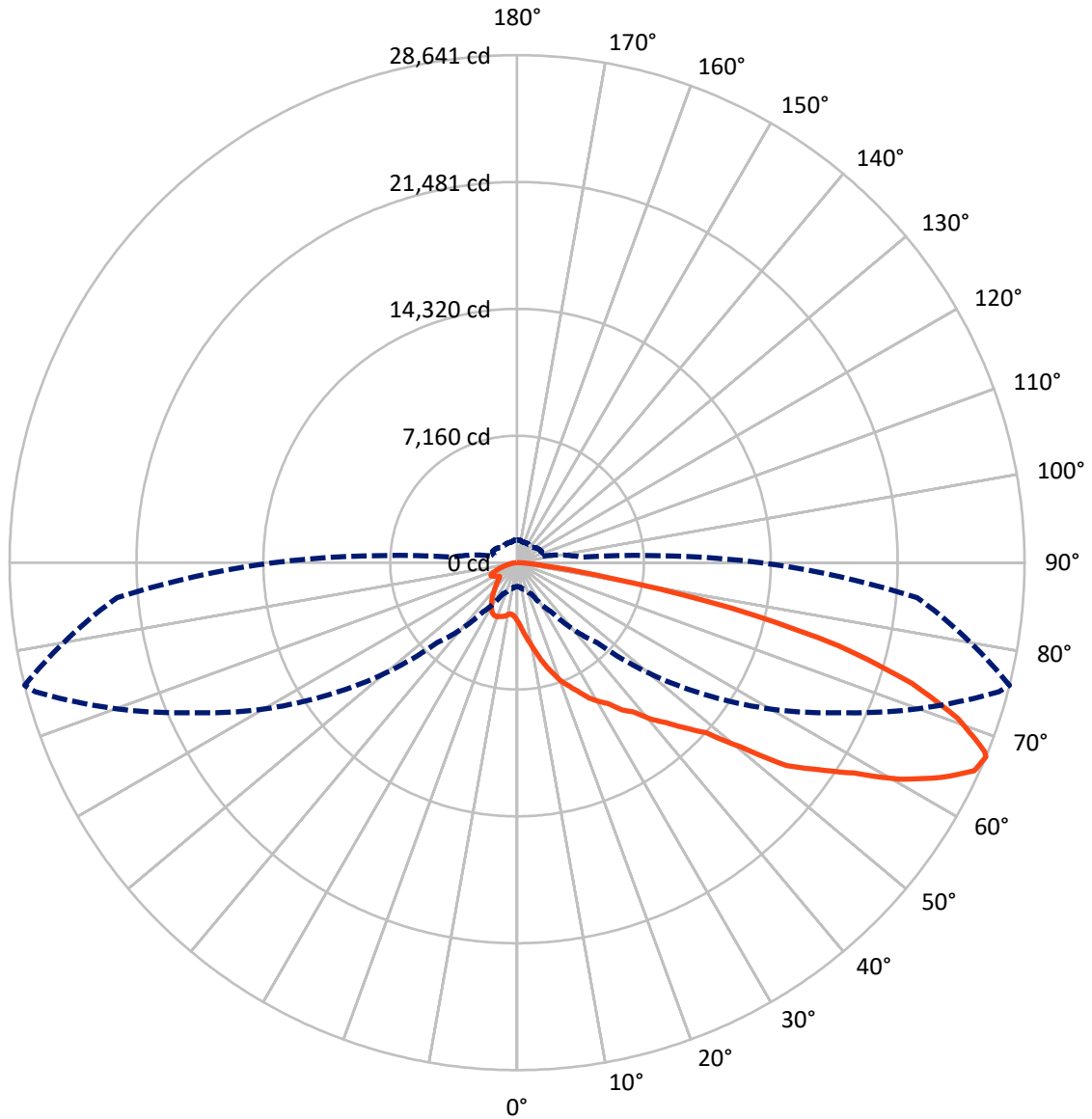
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 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	4578.0	0.0	4578.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	27602.1	0.0	27602.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	32180.2	0.0	32180.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.5	1.2
10°-20°	1430.7	4.4
20°-30°	2659.8	8.3
30°-40°	4216.5	13.1
40°-50°	5831.7	18.1
50°-60°	7173.4	22.3
60°-70°	6675.2	20.7
70°-80°	3349.6	10.4
80°-90°	461.9	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°	32180.2	100.0
0°-180°	32180.2	100.0

Coefficient of Utilization



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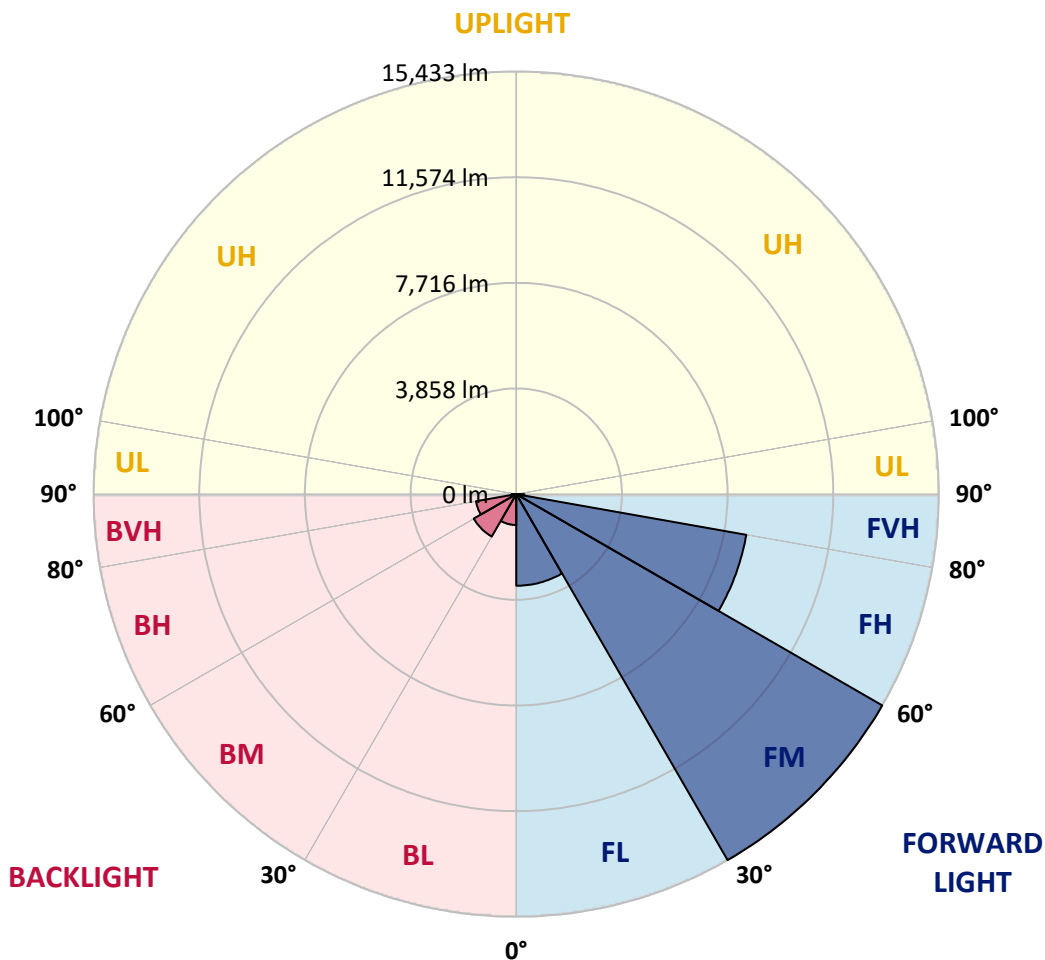
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3344.6	10.4			
FM (30°-60°)	15432.6	48.0			
FH (60°-80°)	8530.7	26.5			G4/12000
FVH (80°-90°)	294.3	0.9			G3/500
BL (0°-30°)	1127.4	3.5	B3/2500		
BM (30°-60°)	1789.0	5.6	B2/2500		
BH (60°-80°)	1494.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	167.6	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°	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1
2.5°	4569.3	4514.3	4459.3	4342.0	4301.6	4191.6	3989.9	3766.2	3582.9	3557.2	3428.8
5°	5669.5	5588.8	5570.5	5504.5	5295.4	5082.7	4752.7	4393.3	3945.9	3978.9	3538.9
7.5°	6494.6	6446.9	6347.9	6285.6	6160.9	5878.5	5537.5	5060.7	4492.3	4382.3	3784.6
10°	7118.0	7052.0	7048.4	6993.4	6927.3	6637.6	6377.3	5735.5	5005.7	4855.4	4085.3
12.5°	7433.4	7422.4	7616.8	7616.8	7591.1	7470.1	7022.7	6435.9	5493.5	5442.1	4433.6
15°	7774.5	7682.8	7851.5	7979.8	8045.8	8108.2	7737.8	7118.0	6116.9	6017.9	4807.7
17.5°	7774.5	7767.1	7935.8	8148.5	8493.2	8573.9	8372.2	7745.1	6634.0	6560.6	5218.4
20°	7642.5	7748.8	7866.2	8152.2	8526.2	8852.6	8911.3	8386.9	7206.1	7147.4	5684.2
22.5°	8258.5	8155.9	8276.9	8386.9	8676.6	9171.7	9333.0	8951.6	7807.5	7583.8	6105.9
25°	9292.7	9223.0	9135.0	8973.6	9094.7	9311.0	9556.7	9369.7	8320.9	8071.5	6513.0
27.5°	10301.2	10304.8	10114.1	9762.1	9501.7	9545.7	9835.4	9736.4	8753.6	8643.6	6791.7
30°	11735.1	11647.0	11434.3	10957.6	10447.9	10029.8	9982.1	10077.5	9303.7	9091.0	7191.4
32.5°	12809.5	12827.9	12527.2	11841.4	11144.6	10803.6	10385.5	10425.9	9652.1	9494.4	7510.4
35°	13678.7	13656.7	13444.0	12875.6	12050.4	11639.7	11075.0	10843.9	10462.5	10213.2	7998.2
37.5°	14617.5	14437.8	14093.1	13451.3	12923.2	12354.8	11804.7	11284.0	11001.6	10700.9	8416.2
40°	14995.2	14995.2	14533.1	14239.8	13612.7	13183.6	12827.9	11863.4	11658.0	11599.4	8951.6
42.5°	14727.5	14892.5	14701.8	14368.1	14111.4	13568.7	13473.3	12464.8	12468.5	12351.1	9593.4
45°	14701.8	14474.5	14316.8	14401.1	14280.1	14250.8	14492.8	13297.3	13319.3	13304.6	10455.2
47.5°	13964.7	13862.0	14096.7	14236.1	14335.1	14789.8	15486.6	14291.1	14448.8	14338.8	11449.0
50°	13231.3	13212.9	13359.6	13865.7	14294.8	15042.9	16432.7	15824.0	16341.1	16333.7	13249.6
52.5°	11221.6	11416.0	11991.8	13062.6	14122.4	15387.6	17147.8	17782.3	18768.8	19036.5	14742.2
55°	9300.0	9197.3	10048.1	11603.0	13370.6	15523.3	17947.3	18959.4	20411.7	20606.0	16275.1
57.5°	7235.4	7426.1	8097.2	9589.7	11815.7	14852.2	18534.0	20121.9	22267.3	22417.6	18053.6
60°	5398.1	5423.8	6160.9	7363.7	9747.4	13337.6	18724.7	21313.8	24394.2	24823.3	19916.6
62.5°	3395.8	3549.9	4110.9	5295.4	7338.1	11218.0	17870.3	22036.2	26623.9	26737.6	21794.2
65°	1829.9	1928.9	2350.7	3095.1	5126.8	8485.9	15604.0	21603.5	27672.7	28347.5	22630.3
67°	1353.2	1371.5	1565.9	1976.6	3428.8	6388.3	13011.2	20037.6	28149.5	28640.9	22663.3
67.5°	1268.9	1294.5	1448.5	1774.9	3040.1	5882.2	12332.8	19480.2	27936.8	28464.8	22406.6
70°	1085.5	1092.8	1129.5	1221.2	1705.2	3538.9	8397.9	15963.3	25894.1	26400.2	20606.0
72.5°	964.5	971.8	986.5	1004.8	1155.2	2046.3	5108.4	12285.1	22505.6	23312.4	17778.6
75°	847.1	872.8	880.1	865.5	982.8	1331.2	2717.4	9028.7	18358.0	18750.4	13825.4
77.5°	718.8	729.8	744.4	759.1	876.5	993.8	1305.5	6094.9	12600.5	12362.1	7477.4
80°	605.1	608.8	619.8	630.8	759.1	759.1	740.8	3293.1	5504.5	5262.4	2526.7
82.5°	432.7	458.4	484.1	513.4	630.8	509.7	484.1	1466.9	1741.9	1657.6	854.5
85°	168.7	205.4	319.0	352.1	399.7	275.0	322.7	634.4	726.1	718.8	319.0
87.5°	29.3	33.0	88.0	135.7	146.7	95.3	154.0	227.4	271.4	293.4	117.4
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°	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1	3293.1
2.5°	3322.5	3208.8	3073.1	2937.4	2849.4	2710.1	2699.1	2614.7	2603.7	2574.4	2589.0
5°	3348.2	3212.5	2937.4	2721.1	2622.1	2541.4	2559.7	2523.0	2512.0	2493.7	2464.4
7.5°	3549.9	3282.1	2871.4	2684.4	2611.0	2574.4	2574.4	2530.4	2497.4	2519.4	2541.4
10°	3681.9	3315.2	2922.8	2735.7	2677.1	2596.4	2625.7	2570.7	2589.0	2545.0	2545.0
12.5°	3894.6	3502.2	3029.1	2812.7	2717.4	2644.1	2673.4	2611.0	2596.4	2600.0	2589.0
15°	4180.6	3626.9	3076.8	2856.8	2790.7	2699.1	2677.1	2622.1	2567.0	2548.7	2570.7
17.5°	4448.3	3780.9	3109.8	2882.4	2776.1	2673.4	2647.7	2578.0	2559.7	2504.7	2460.7
20°	4767.4	3964.2	3153.8	2904.4	2721.1	2618.4	2552.4	2482.7	2420.4	2387.3	2402.0
22.5°	4980.1	4059.6	3175.8	2860.4	2640.4	2545.0	2405.7	2358.0	2270.0	2233.3	2204.0
25°	5328.4	4176.9	3120.8	2739.4	2497.4	2343.3	2218.7	2152.6	2090.3	2042.6	2028.0
27.5°	5416.5	4265.0	2992.4	2534.0	2270.0	2108.6	2002.3	1921.6	1881.3	1807.9	1793.3
30°	5673.2	4176.9	2801.7	2284.7	2053.6	1888.6	1782.3	1723.6	1628.2	1609.9	1569.6
32.5°	5838.2	4202.6	2559.7	2042.6	1804.3	1657.6	1587.9	1529.2	1503.6	1415.5	1393.5
35°	6113.2	4114.6	2314.0	1818.9	1598.9	1485.2	1426.5	1408.2	1323.9	1283.5	1246.8
37.5°	6289.3	4063.3	2068.3	1565.9	1375.2	1327.5	1345.9	1268.9	1166.2	1089.2	1063.5
40°	6597.3	4044.9	1789.6	1356.9	1221.2	1210.2	1268.9	1122.2	935.1	869.1	832.5
42.5°	7041.0	3920.2	1573.2	1169.8	1100.2	1147.8	1158.8	935.1	828.8	773.8	748.1
45°	7466.4	3945.9	1360.5	968.1	957.1	1026.8	1001.1	792.1	729.8	689.4	711.4
47.5°	8284.2	4074.3	1151.5	806.8	861.8	927.8	777.4	707.8	649.1	619.8	623.4
50°	9549.4	4198.9	968.1	737.1	814.1	839.8	667.4	641.8	638.1	579.4	575.8
52.5°	10308.5	4151.3	935.1	825.1	872.8	839.8	726.1	707.8	678.4	652.8	623.4
55°	11515.0	4290.6	1004.8	964.5	990.1	806.8	814.1	806.8	784.8	718.8	737.1
57.5°	12475.8	4382.3	1096.5	1078.2	1063.5	839.8	850.8	854.5	839.8	810.5	836.1
60°	13796.0	4565.7	1191.8	1195.5	1199.2	913.1	931.5	953.5	949.8	938.8	946.1
62.5°	14606.5	4481.3	1298.2	1356.9	1338.5	1063.5	1059.8	1074.5	1074.5	1092.8	1103.8
65°	14485.5	4169.6	1353.2	1499.9	1404.5	1173.5	1173.5	1180.8	1184.5	1221.2	1224.8
67°	13759.3	3612.2	1323.9	1521.9	1404.5	1217.5	1217.5	1224.8	1199.2	1294.5	1265.2
67.5°	13422.0	3447.2	1298.2	1503.6	1393.5	1213.8	1213.8	1217.5	1195.5	1287.2	1257.9
70°	11672.7	2559.7	1118.5	1331.2	1290.9	1180.8	1180.8	1158.8	1140.5	1261.5	1235.8
72.5°	9963.8	1859.3	898.5	1133.2	1166.2	1136.8	1144.2	1089.2	1037.8	1122.2	1100.2
75°	7631.5	1367.9	700.4	872.8	986.5	1063.5	1111.2	971.8	905.8	927.8	887.5
77.5°	4257.6	891.1	553.7	645.4	751.8	990.1	1067.2	876.5	740.8	715.1	715.1
80°	1444.9	520.7	407.1	480.4	517.1	876.5	997.5	711.4	583.1	557.4	539.1
82.5°	546.4	319.0	278.7	330.0	330.0	693.1	814.1	546.4	440.1	568.4	579.4
85°	249.4	190.7	183.4	190.7	190.7	425.4	575.8	355.7	396.1	341.0	300.7
87.5°	99.0	91.7	84.3	80.7	66.0	73.3	198.0	95.3	179.7	47.7	44.0
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)