

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: P478098

Luminaire Tested: **IFLD-M-SA4A-730-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478098
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

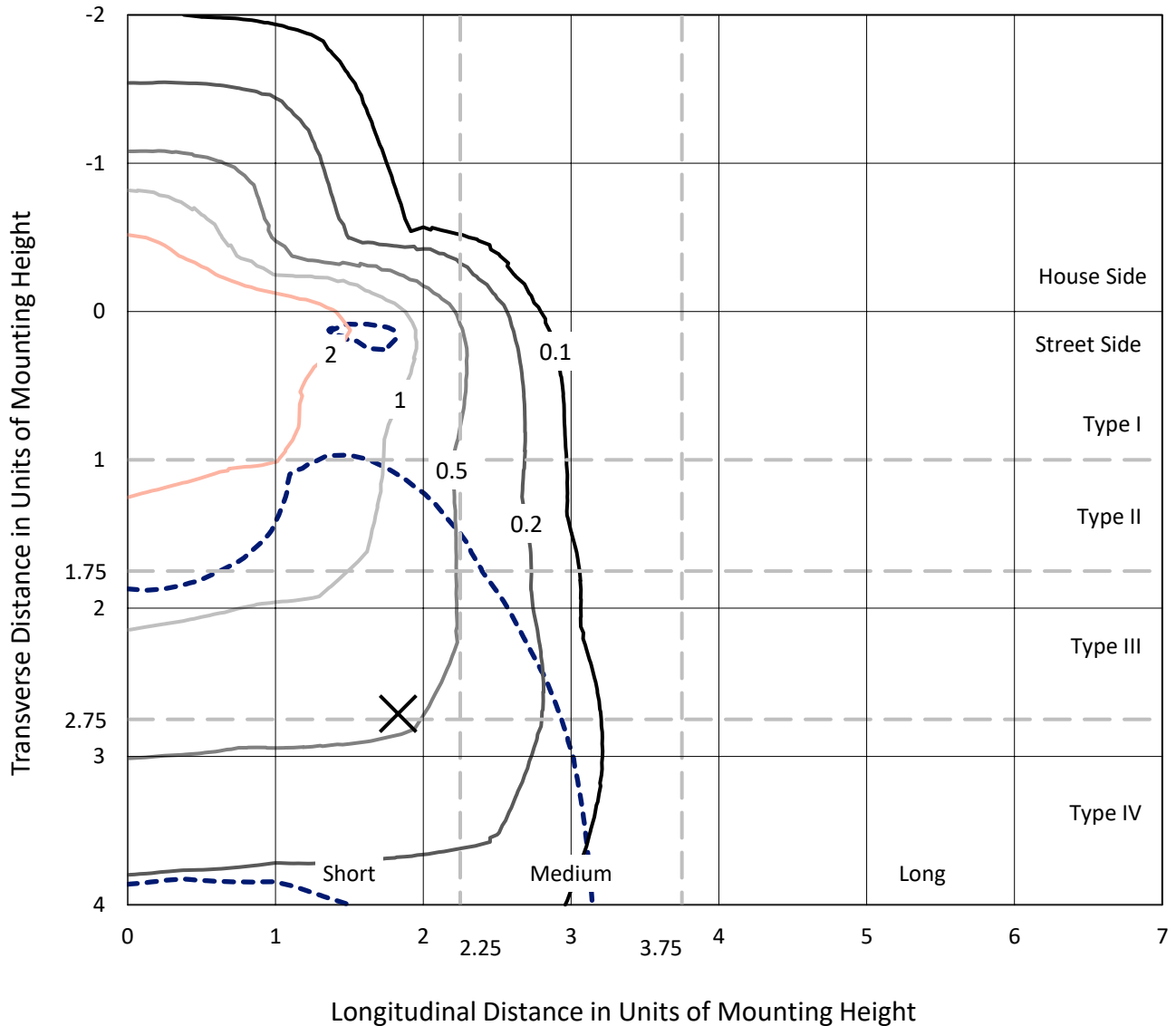
Lumens per Lamp: N/A
Luminaire Lumens: 17228.2 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6
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

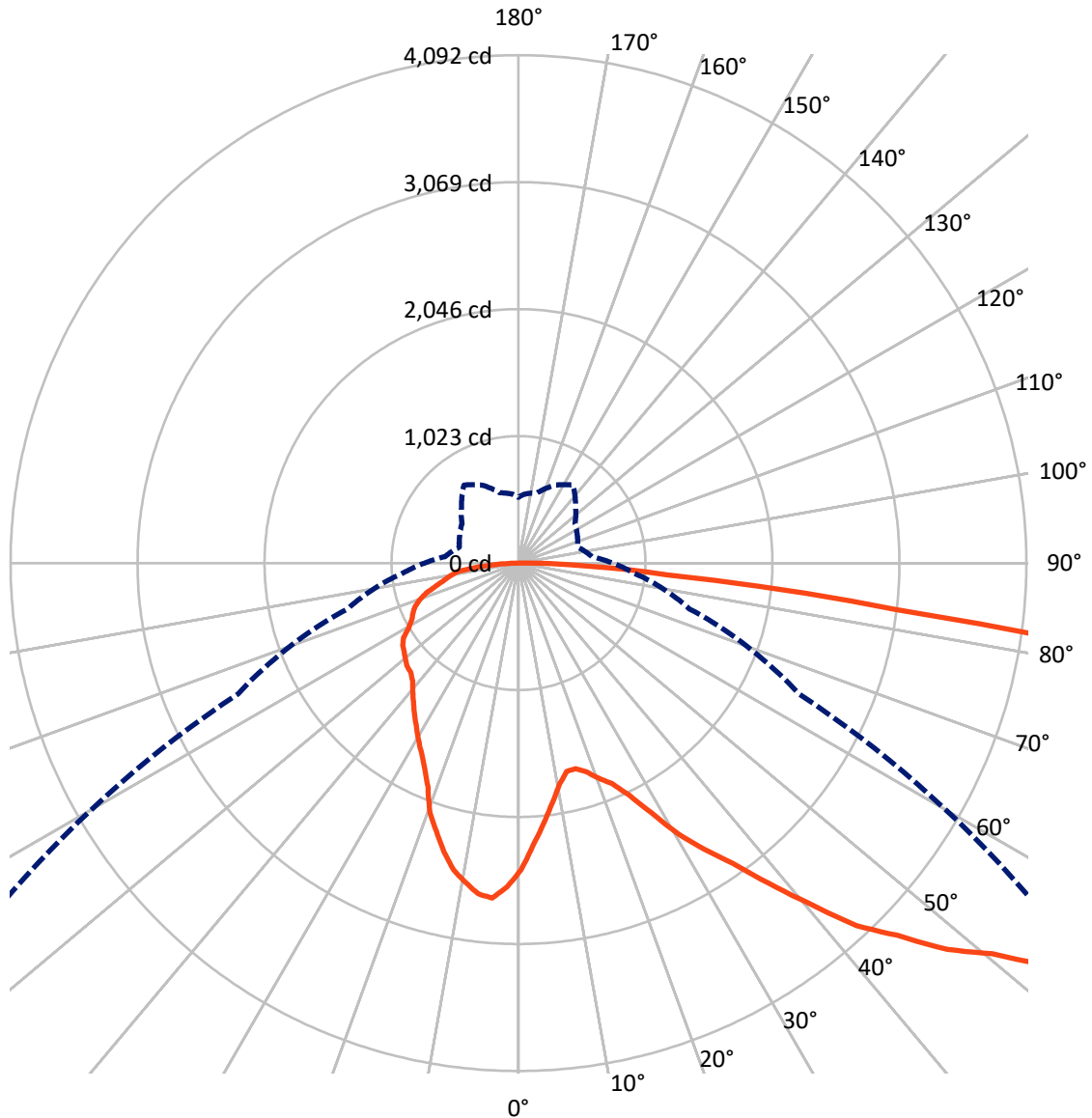
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3721.5	0.0	3721.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	13506.7	0.0	13506.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	17228.2	0.0	17228.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	1.3
10°-20°	638.0	3.7
20°-30°	1050.0	6.1
30°-40°	1570.3	9.1
40°-50°	2327.9	13.5
50°-60°	3354.7	19.5
60°-70°	4281.1	24.8
70°-80°	3331.4	19.3
80°-90°	446.9	2.6
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°	17228.2	100.0
0°-180°	17228.2	100.0

Coefficient of Utilization



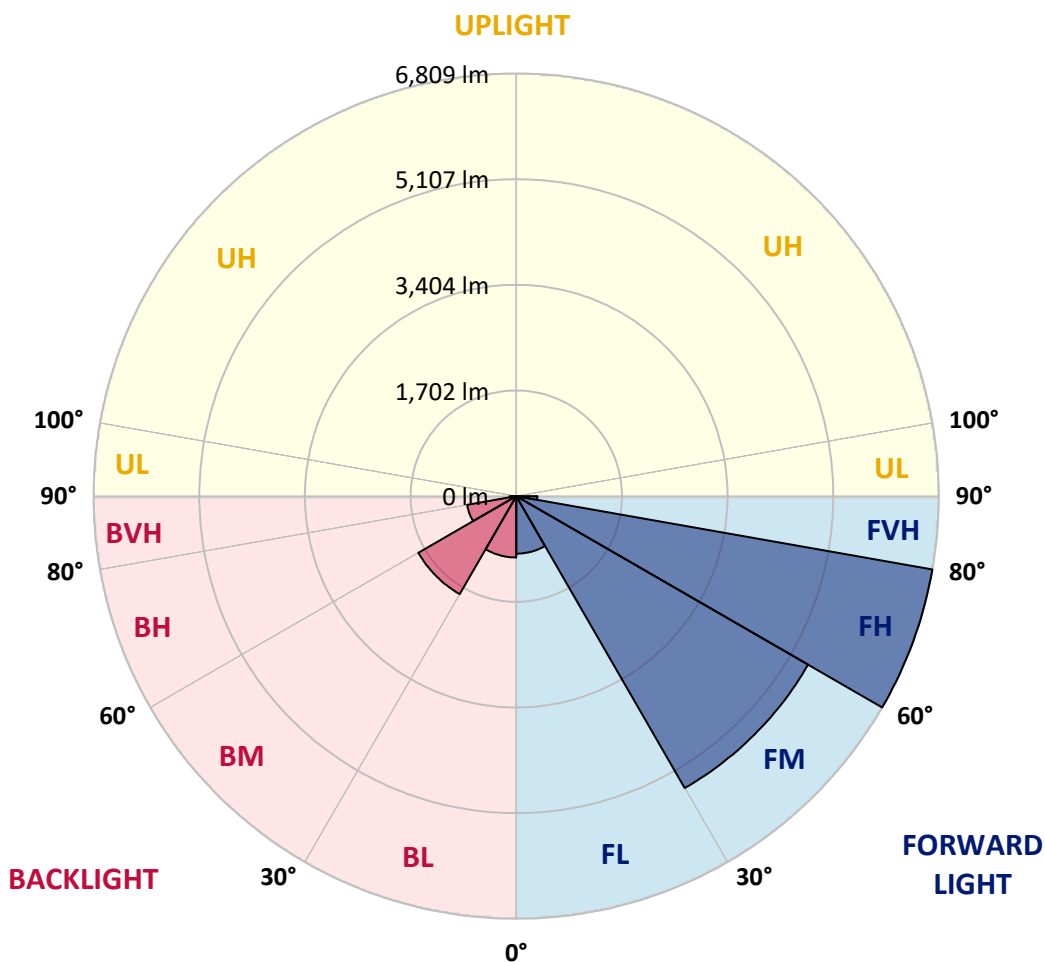
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	927.2	5.4			
FM (30°-60°)	5430.5	31.5			
FH (60°-80°)	6808.9	39.5			G3/7500
FVH (80°-90°)	340.2	2.0			G3/500
BL (0°-30°)	988.8	5.7	B2/1000		
BM (30°-60°)	1822.4	10.6	B2/2500		
BH (60°-80°)	803.6	4.7	B2/1000		G2/1000
BVH (80°-90°)	106.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2469.9	2469.9	2469.9	2469.9	2469.9	2469.9	2469.9	2469.9	2469.9	2469.9	2469.9
2.5°	2213.1	2220.4	2244.1	2249.5	2275.0	2260.5	2291.4	2346.1	2377.0	2422.6	2477.2
5°	2038.2	2007.3	2021.9	2078.3	2107.5	2114.7	2147.5	2240.4	2298.7	2366.1	2468.1
7.5°	1832.4	1827.0	1856.1	1892.5	1950.8	1956.3	2029.1	2111.1	2231.3	2380.7	2500.9
10°	1692.2	1715.8	1732.2	1770.5	1810.6	1810.6	1903.5	2045.5	2182.1	2326.0	2508.2
12.5°	1684.9	1670.3	1673.9	1694.0	1723.1	1759.6	1847.0	1974.5	2147.5	2315.1	2539.2
15°	1708.6	1714.0	1681.2	1706.7	1717.7	1730.4	1827.0	1970.9	2125.7	2353.4	2592.0
17.5°	1834.2	1803.3	1752.3	1728.6	1766.8	1766.8	1832.4	1945.4	2129.3	2373.4	2668.5
20°	1932.6	1932.6	1848.8	1823.3	1850.6	1845.2	1890.7	1974.5	2147.5	2413.5	2754.1
22.5°	2098.4	2122.0	1983.6	1930.8	1929.0	1943.5	1983.6	2054.6	2198.5	2469.9	2836.1
25°	2337.0	2342.4	2182.1	2127.5	2069.2	2092.9	2100.2	2171.2	2244.1	2535.5	2929.0
27.5°	2602.9	2599.3	2451.7	2315.1	2276.9	2282.3	2242.3	2289.6	2311.5	2555.5	3061.9
30°	2898.0	2865.2	2754.1	2561.0	2530.0	2495.4	2408.0	2406.2	2451.7	2668.5	3245.9
32.5°	3091.1	3049.2	2972.7	2834.2	2748.6	2752.3	2613.8	2612.0	2571.9	2792.3	3406.2
35°	3280.5	3216.7	3196.7	3054.6	2969.0	2978.1	2867.0	2852.5	2779.6	2980.0	3670.3
37.5°	3508.2	3451.7	3482.7	3375.2	3269.6	3225.9	3174.9	3156.6	3061.9	3244.1	4031.0
40°	3759.6	3741.3	3721.3	3668.5	3604.7	3608.4	3553.7	3535.5	3395.3	3562.8	4377.0
42.5°	4098.3	4029.1	3925.3	3959.9	3992.7	4027.3	4009.1	3961.7	3816.0	3887.1	4763.2
45°	4413.5	4322.4	4131.1	4142.1	4276.9	4304.2	4524.6	4519.1	4225.9	4298.7	5202.2
47.5°	4626.6	4584.7	4469.9	4457.2	4650.3	4648.4	5045.5	5045.5	4657.5	4708.5	5673.9
50°	4943.5	4834.2	4785.1	4848.8	4947.2	5014.6	5577.4	5612.0	5082.0	5136.6	6291.4
52.5°	5315.1	5178.5	5054.6	5218.6	5393.4	5437.1	6103.8	6089.2	5408.0	5633.9	7014.6
55°	5622.9	5553.7	5468.1	5562.8	5848.8	5903.4	6632.0	6497.3	5734.0	6045.5	7362.5
57.5°	5981.8	6023.7	6041.9	6018.2	6358.8	6444.4	7235.0	6848.8	6014.6	6322.4	7566.5
60°	6522.8	6548.3	6571.9	6628.4	6989.1	7109.3	7712.2	7289.6	6191.2	6482.7	7582.9
62.5°	7346.1	7247.7	7300.5	7495.4	7785.0	7921.7	8415.3	7599.3	6326.0	6579.2	7047.3
65°	8287.8	8154.8	8100.2	8351.5	9102.0	8992.7	9293.2	7830.6	6131.1	6218.6	5976.3
67.5°	9242.2	9256.8	9116.6	9621.1	10541.0	10541.0	10109.3	7941.7	5602.9	5040.1	4191.2
70°	10000.0	10045.5	10122.0	11100.2	12557.3	12777.7	11120.2	7486.3	4526.4	3355.2	2291.4
72.5°	9989.0	9852.4	10244.1	12045.5	14389.8	14205.8	11331.5	5919.8	2825.1	1643.0	1051.0
73°	9765.0	9650.2	10078.3	12036.4	14464.4	14291.4	11176.7	5457.2	2491.8	1424.4	934.4
75°	7974.5	7766.8	8495.4	10901.6	13382.5	13515.4	9495.4	3559.2	1366.1	878.0	657.6
77.5°	3635.7	3726.8	4675.8	7313.3	10313.3	10469.9	6242.2	1539.2	748.6	615.7	484.5
80°	1167.6	1225.9	1819.7	3635.7	6464.5	6746.8	2885.2	699.5	533.7	471.8	362.5
82.5°	446.3	444.4	763.2	1511.8	3063.7	3244.1	1054.6	426.2	397.1	347.9	256.8
85°	156.6	163.9	287.8	597.4	1205.8	1262.3	366.1	236.8	275.0	233.2	147.5
87.5°	54.6	56.5	102.0	216.8	415.3	439.0	102.0	94.7	136.6	134.8	74.7
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°	2469.9	2469.9	2469.9	2469.9	2469.9	2469.9	2469.9	2469.9	2469.9	2469.9	2469.9
2.5°	2495.4	2511.8	2517.3	2582.9	2582.9	2582.9	2608.4	2608.4	2601.1	2582.9	2626.6
5°	2506.4	2535.5	2592.0	2648.4	2663.0	2675.8	2710.4	2681.2	2692.2	2673.9	2690.3
7.5°	2537.3	2577.4	2683.1	2717.7	2694.0	2721.3	2684.9	2664.8	2644.8	2652.1	2626.6
10°	2590.2	2641.2	2690.3	2754.1	2708.6	2681.2	2606.6	2588.3	2524.6	2502.7	2522.8
12.5°	2655.7	2717.7	2801.4	2777.8	2690.3	2612.0	2531.9	2455.4	2417.1	2362.5	2377.0
15°	2721.3	2792.3	2805.1	2765.0	2655.7	2557.4	2411.7	2304.2	2265.9	2216.8	2242.3
17.5°	2792.3	2859.7	2837.9	2734.1	2586.5	2437.2	2271.4	2165.8	2085.6	2054.6	2054.6
20°	2898.0	2930.8	2896.2	2683.1	2502.7	2306.0	2145.7	2025.5	1945.4	1932.6	1912.6
22.5°	2980.0	3032.8	2878.0	2608.4	2380.7	2134.8	1950.8	1905.3	1881.6	1861.6	1836.1
25°	3085.6	3083.8	2845.2	2539.2	2171.2	1930.8	1819.7	1816.0	1805.1	1797.8	1832.4
27.5°	3185.8	3143.9	2806.9	2367.9	1954.5	1776.0	1715.8	1755.9	1772.3	1761.4	1776.0
30°	3344.3	3275.0	2752.3	2185.8	1763.2	1619.3	1630.2	1684.9	1712.2	1728.6	1706.7
32.5°	3511.8	3406.2	2639.3	1996.4	1593.8	1520.9	1546.4	1602.9	1635.7	1653.9	1673.9
35°	3754.1	3508.2	2524.6	1748.6	1471.8	1460.8	1475.4	1506.4	1553.7	1566.5	1571.9
37.5°	4052.8	3663.0	2369.8	1550.1	1377.0	1389.8	1404.4	1415.3	1417.1	1440.8	1431.7
40°	4351.5	3794.2	2143.9	1360.7	1278.7	1347.9	1340.6	1320.6	1304.2	1282.3	1276.9
42.5°	4613.8	3908.9	1892.5	1200.4	1191.3	1304.2	1280.5	1229.5	1191.3	1174.9	1147.5
45°	4908.9	4071.0	1639.3	1100.2	1123.9	1251.4	1244.1	1165.8	1116.6	1058.3	1051.0
47.5°	5291.4	4240.4	1397.1	996.4	1060.1	1231.3	1235.0	1134.8	1063.7	985.4	974.5
50°	5781.4	4484.5	1213.1	952.6	1021.9	1202.2	1207.6	1092.9	1000.0	919.9	912.6
52.5°	6251.3	4734.0	1060.1	885.2	996.4	1167.6	1180.3	1054.6	947.2	847.0	852.5
55°	6488.1	4643.0	929.0	836.1	938.1	1111.1	1158.5	1027.3	867.0	797.8	796.0
57.5°	6541.0	4418.9	825.1	785.1	888.9	1051.0	1122.0	945.4	830.6	772.3	765.0
60°	6367.9	4027.3	743.2	730.4	827.0	989.1	1038.2	901.6	794.2	746.8	735.9
62.5°	5941.7	3621.1	686.7	704.9	774.1	921.7	985.4	870.7	759.6	726.8	703.1
65°	4872.5	2978.1	641.2	655.7	719.5	856.1	952.6	836.1	728.6	697.6	695.8
67.5°	3375.2	2052.8	604.7	632.1	675.8	808.7	919.9	797.8	688.5	677.6	663.0
70°	1728.6	1094.7	557.4	579.2	628.4	748.6	861.6	757.7	646.6	644.8	626.6
72.5°	876.1	641.2	502.7	535.5	570.1	670.3	788.7	704.9	593.8	573.8	544.6
73°	757.7	593.8	493.6	522.8	555.6	648.5	766.8	692.2	586.5	557.4	530.1
75°	551.9	468.1	442.6	471.8	497.3	584.7	694.0	633.9	539.2	508.2	482.7
77.5°	413.5	360.7	367.9	400.7	422.6	504.6	617.5	573.8	488.2	446.3	435.3
80°	304.2	275.0	304.2	335.2	351.5	444.4	562.8	497.3	411.7	364.3	355.2
82.5°	216.8	200.4	235.0	255.0	262.3	367.9	506.4	397.1	311.5	249.5	229.5
85°	123.9	122.0	158.5	156.6	162.1	214.9	333.3	264.1	200.4	153.0	149.4
87.5°	54.6	60.1	80.1	63.8	67.4	102.0	142.1	98.4	82.0	45.5	34.6
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)