

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: P478079

Luminaire Tested: **IFLD-S-SA3B-730-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478079
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-730-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

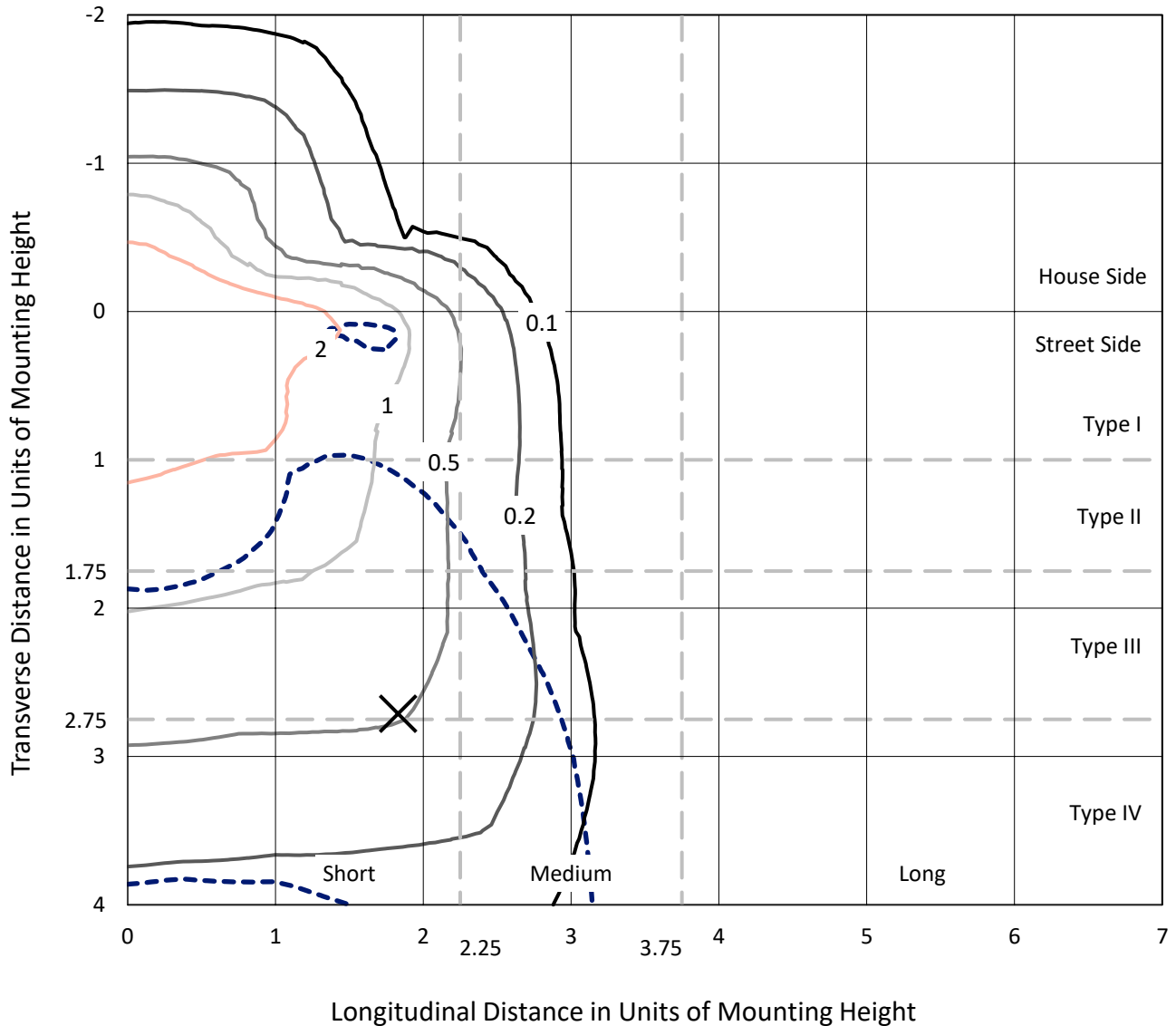
Lumens per Lamp: N/A
Luminaire Lumens: 15874.1 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4
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

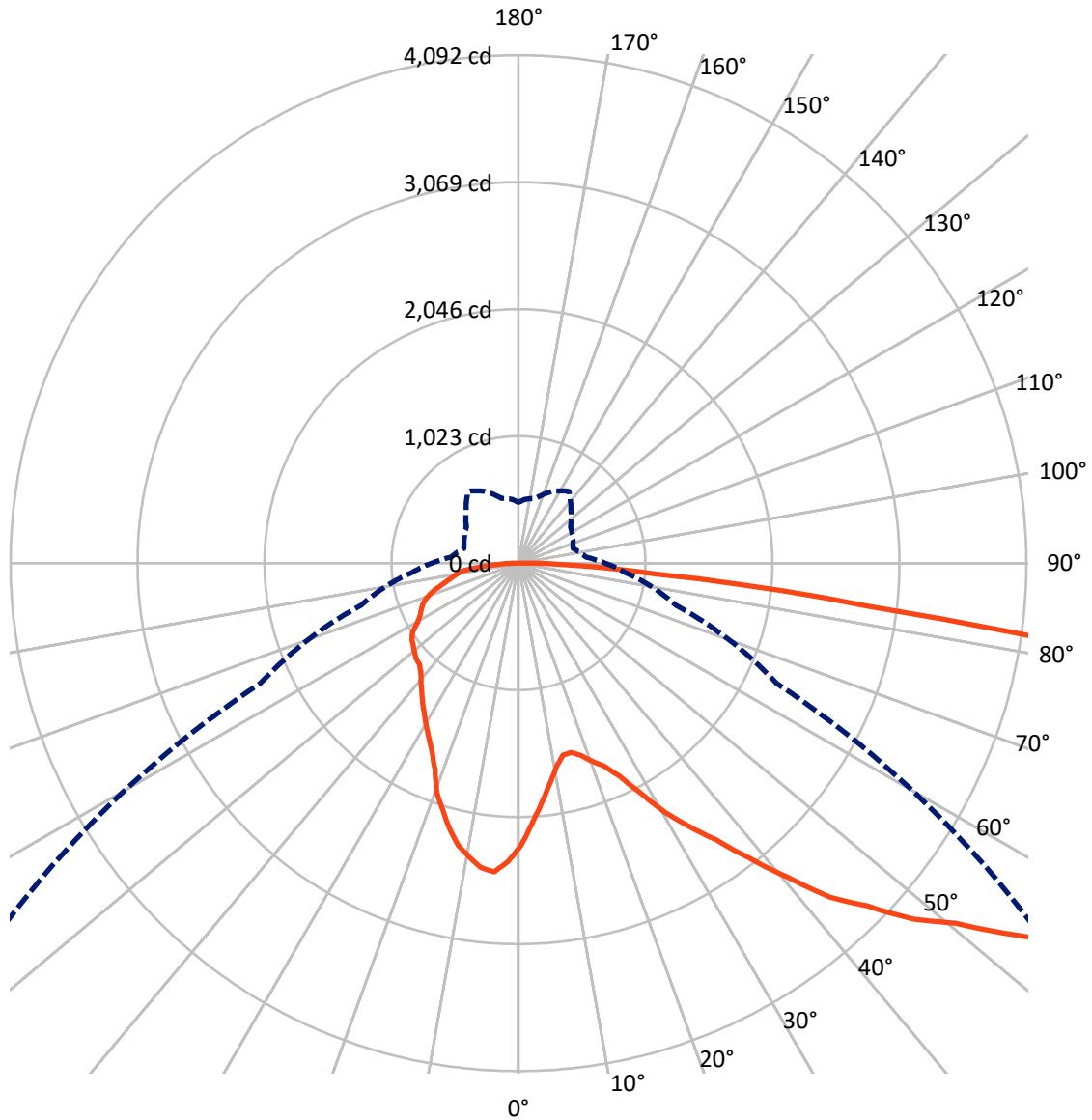
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	3429.0	0.0	3429.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	12445.1	0.0	12445.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	15874.1	0.0	15874.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.0	1.3
10°-20°	587.8	3.7
20°-30°	967.5	6.1
30°-40°	1446.9	9.1
40°-50°	2144.9	13.5
50°-60°	3091.0	19.5
60°-70°	3944.6	24.8
70°-80°	3069.6	19.3
80°-90°	411.8	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°	15874.1	100.0
0°-180°	15874.1	100.0

Coefficient of Utilization



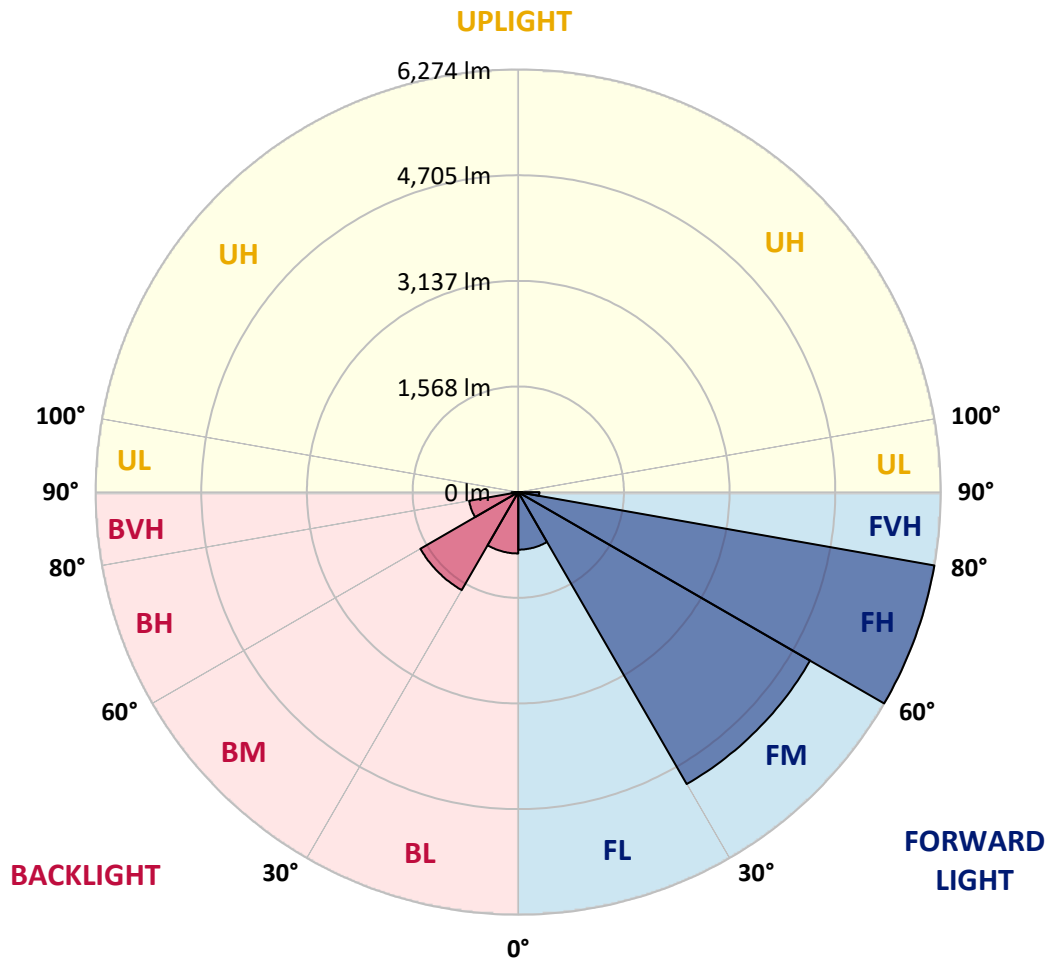
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	854.3	5.4			
FM (30°-60°)	5003.6	31.5			
FH (60°-80°)	6273.7	39.5			G3/7500
FVH (80°-90°)	313.4	2.0			G3/500
BL (0°-30°)	911.1	5.7	B2/1000		
BM (30°-60°)	1679.2	10.6	B2/2500		
BH (60°-80°)	740.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	98.3	0.6			G1/100
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°	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8
2.5°	2039.2	2045.9	2067.7	2072.7	2096.2	2082.8	2111.3	2161.7	2190.2	2232.2	2282.5
5°	1878.0	1849.5	1862.9	1915.0	1941.8	1948.5	1978.7	2064.3	2118.0	2180.1	2274.1
7.5°	1688.4	1683.4	1710.2	1743.8	1797.5	1802.5	1869.7	1945.2	2055.9	2193.6	2304.3
10°	1559.2	1581.0	1596.1	1631.3	1668.3	1668.3	1753.8	1884.8	2010.6	2143.2	2311.1
12.5°	1552.4	1539.0	1542.4	1560.8	1587.7	1621.3	1701.8	1819.3	1978.7	2133.1	2339.6
15°	1574.3	1579.3	1549.1	1572.6	1582.7	1594.4	1683.4	1815.9	1958.6	2168.4	2388.3
17.5°	1690.1	1661.5	1614.5	1592.7	1628.0	1628.0	1688.4	1792.4	1962.0	2186.9	2458.7
20°	1780.7	1780.7	1703.5	1680.0	1705.2	1700.1	1742.1	1819.3	1978.7	2223.8	2537.6
22.5°	1933.4	1955.2	1827.7	1779.0	1777.3	1790.8	1827.7	1893.1	2025.7	2275.8	2613.1
25°	2153.3	2158.3	2010.6	1960.3	1906.6	1928.4	1935.1	2000.6	2067.7	2336.2	2698.7
27.5°	2398.3	2395.0	2259.0	2133.1	2097.9	2102.9	2066.0	2109.7	2129.8	2354.7	2821.3
30°	2670.2	2640.0	2537.6	2359.7	2331.2	2299.3	2218.7	2217.1	2259.0	2458.7	2990.8
32.5°	2848.1	2809.5	2739.0	2611.5	2532.6	2535.9	2408.4	2406.7	2369.8	2572.9	3138.5
35°	3022.7	2963.9	2945.5	2814.5	2735.7	2744.1	2641.7	2628.3	2561.1	2745.7	3381.8
37.5°	3232.5	3180.4	3209.0	3109.9	3012.6	2972.3	2925.3	2908.5	2821.3	2989.1	3714.1
40°	3464.1	3447.3	3428.8	3380.1	3321.4	3324.8	3274.4	3257.6	3128.4	3282.8	4033.0
42.5°	3776.2	3712.5	3616.8	3648.7	3678.9	3710.8	3694.0	3650.4	3516.1	3581.5	4388.8
45°	4066.6	3982.7	3806.4	3816.5	3940.7	3965.9	4169.0	4163.9	3893.7	3960.8	4793.3
47.5°	4262.9	4224.3	4118.6	4106.9	4284.8	4283.1	4649.0	4649.0	4291.5	4338.5	5228.0
50°	4555.0	4454.3	4409.0	4467.7	4558.3	4620.4	5139.0	5170.9	4682.5	4732.9	5796.9
52.5°	4897.3	4771.5	4657.3	4808.4	4969.5	5009.8	5624.1	5610.6	4982.9	5191.1	6463.2
55°	5181.0	5117.2	5038.3	5125.6	5389.1	5439.4	6110.8	5986.6	5283.4	5570.4	6783.8
57.5°	5511.6	5550.2	5567.0	5545.2	5859.0	5937.9	6666.3	6310.5	5541.8	5825.5	6971.8
60°	6010.1	6033.6	6055.4	6107.4	6439.7	6550.5	7106.0	6716.6	5704.6	5973.2	6986.9
62.5°	6768.7	6678.0	6726.7	6906.3	7173.2	7299.0	7753.9	7002.0	5828.8	6062.1	6493.4
65°	7636.4	7513.9	7463.5	7695.1	8386.6	8285.9	8562.8	7215.1	5649.2	5729.8	5506.6
67.5°	8515.8	8529.2	8400.0	8864.9	9712.5	9712.5	9314.7	7317.5	5162.5	4643.9	3861.8
70°	9214.0	9256.0	9326.4	10227.7	11570.4	11773.4	10246.2	6897.9	4170.6	3091.5	2111.3
72.5°	9203.9	9078.0	9438.9	11098.8	13258.8	13089.2	10440.8	5454.5	2603.1	1513.8	968.4
73°	8997.5	8891.8	9286.2	11090.4	13327.6	13168.1	10298.2	5028.3	2295.9	1312.4	861.0
75°	7347.7	7156.4	7827.7	10044.8	12330.6	12453.2	8749.1	3279.4	1258.7	809.0	605.9
77.5°	3349.9	3433.8	4308.3	6738.5	9502.7	9647.0	5751.6	1418.2	689.8	567.3	446.4
80°	1075.8	1129.5	1676.6	3349.9	5956.4	6216.5	2658.5	644.5	491.7	434.7	334.0
82.5°	411.2	409.5	703.2	1393.0	2822.9	2989.1	971.7	392.7	365.9	320.6	236.6
85°	144.3	151.0	265.2	550.5	1111.0	1163.1	337.3	218.2	253.4	214.8	135.9
87.5°	50.3	52.0	94.0	199.7	382.7	404.5	94.0	87.3	125.9	124.2	68.8
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°	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8	2275.8
2.5°	2299.3	2314.4	2319.4	2379.9	2379.9	2379.9	2403.4	2403.4	2396.6	2379.9	2420.1
5°	2309.4	2336.2	2388.3	2440.3	2453.7	2465.5	2497.3	2470.5	2480.6	2463.8	2478.9
7.5°	2337.9	2374.8	2472.2	2504.1	2482.2	2507.4	2473.8	2455.4	2436.9	2443.6	2420.1
10°	2386.6	2433.6	2478.9	2537.6	2495.7	2470.5	2401.7	2384.9	2326.2	2306.0	2324.5
12.5°	2447.0	2504.1	2581.3	2559.4	2478.9	2406.7	2332.9	2262.4	2227.1	2176.8	2190.2
15°	2507.4	2572.9	2584.6	2547.7	2447.0	2356.4	2222.1	2123.1	2087.8	2042.5	2066.0
17.5°	2572.9	2635.0	2614.8	2519.2	2383.2	2245.6	2092.9	1995.5	1921.7	1893.1	1893.1
20°	2670.2	2700.4	2668.5	2472.2	2306.0	2124.8	1977.1	1866.3	1792.4	1780.7	1762.2
22.5°	2745.7	2794.4	2651.8	2403.4	2193.6	1967.0	1797.5	1755.5	1733.7	1715.2	1691.7
25°	2843.1	2841.4	2621.5	2339.6	2000.6	1779.0	1676.6	1673.3	1663.2	1656.5	1688.4
27.5°	2935.4	2896.8	2586.3	2181.8	1800.8	1636.4	1581.0	1617.9	1633.0	1622.9	1636.4
30°	3081.4	3017.6	2535.9	2014.0	1624.6	1492.0	1502.1	1552.4	1577.6	1592.7	1572.6
32.5°	3235.8	3138.5	2431.9	1839.4	1468.5	1401.4	1424.9	1476.9	1507.1	1523.9	1542.4
35°	3459.0	3232.5	2326.2	1611.2	1356.1	1346.0	1359.4	1388.0	1431.6	1443.4	1448.4
37.5°	3734.3	3375.1	2183.5	1428.3	1268.8	1280.6	1294.0	1304.1	1305.7	1327.6	1319.2
40°	4009.5	3495.9	1975.4	1253.7	1178.2	1242.0	1235.2	1216.8	1201.7	1181.5	1176.5
42.5°	4251.2	3601.7	1743.8	1106.0	1097.6	1201.7	1179.9	1132.9	1097.6	1082.5	1057.3
45°	4523.1	3751.1	1510.5	1013.7	1035.5	1153.0	1146.3	1074.1	1028.8	975.1	968.4
47.5°	4875.5	3907.1	1287.3	918.0	976.8	1134.5	1137.9	1045.6	980.1	908.0	897.9
50°	5327.0	4132.0	1117.8	877.8	941.5	1107.7	1112.7	1007.0	921.4	847.6	840.8
52.5°	5760.0	4362.0	976.8	815.7	918.0	1075.8	1087.6	971.7	872.7	780.4	785.5
55°	5978.2	4278.0	855.9	770.4	864.3	1023.8	1067.4	946.6	798.9	735.1	733.4
57.5°	6026.9	4071.6	760.3	723.4	819.0	968.4	1033.8	871.0	765.3	711.6	704.9
60°	5867.4	3710.8	684.8	673.0	762.0	911.3	956.6	830.8	731.7	688.1	678.0
62.5°	5474.7	3336.5	632.7	649.5	713.3	849.2	908.0	802.2	699.9	669.7	647.8
65°	4489.5	2744.1	590.8	604.2	662.9	788.8	877.8	770.4	671.3	642.8	641.1
67.5°	3109.9	1891.5	557.2	582.4	622.7	745.2	847.6	735.1	634.4	624.3	610.9
70°	1592.7	1008.7	513.6	533.7	579.0	689.8	793.8	698.2	595.8	594.1	577.3
72.5°	807.3	590.8	463.2	493.4	525.3	617.6	726.7	649.5	547.1	528.7	501.8
73°	698.2	547.1	454.8	481.7	511.9	597.5	706.6	637.8	540.4	513.6	488.4
75°	508.5	431.3	407.8	434.7	458.2	538.7	639.4	584.1	496.8	468.3	444.8
77.5°	381.0	332.3	339.0	369.2	389.4	464.9	569.0	528.7	449.8	411.2	401.1
80°	280.3	253.4	280.3	308.8	323.9	409.5	518.6	458.2	379.3	335.7	327.3
82.5°	199.7	184.6	216.5	235.0	241.7	339.0	466.6	365.9	287.0	229.9	211.5
85°	114.1	112.4	146.0	144.3	149.4	198.0	307.1	243.4	184.6	141.0	137.6
87.5°	50.3	55.4	73.8	58.7	62.1	94.0	130.9	90.6	75.5	42.0	31.9
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)