

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: P478195

Luminaire Tested: **IFLD-S-SA3A-750-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478195
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-750-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

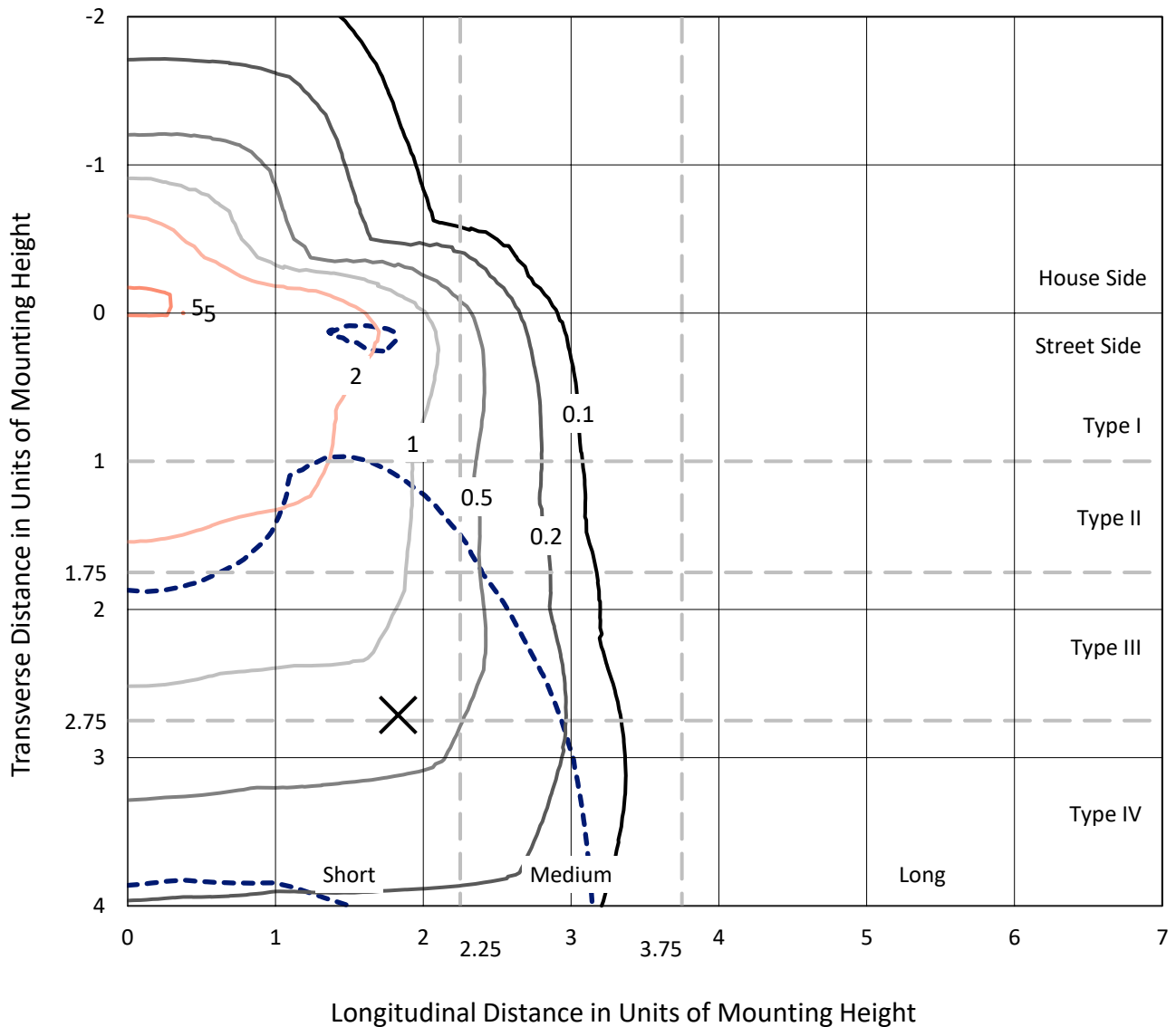
Lumens per Lamp: N/A
Luminaire Lumens: 14418.3 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 94.8
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

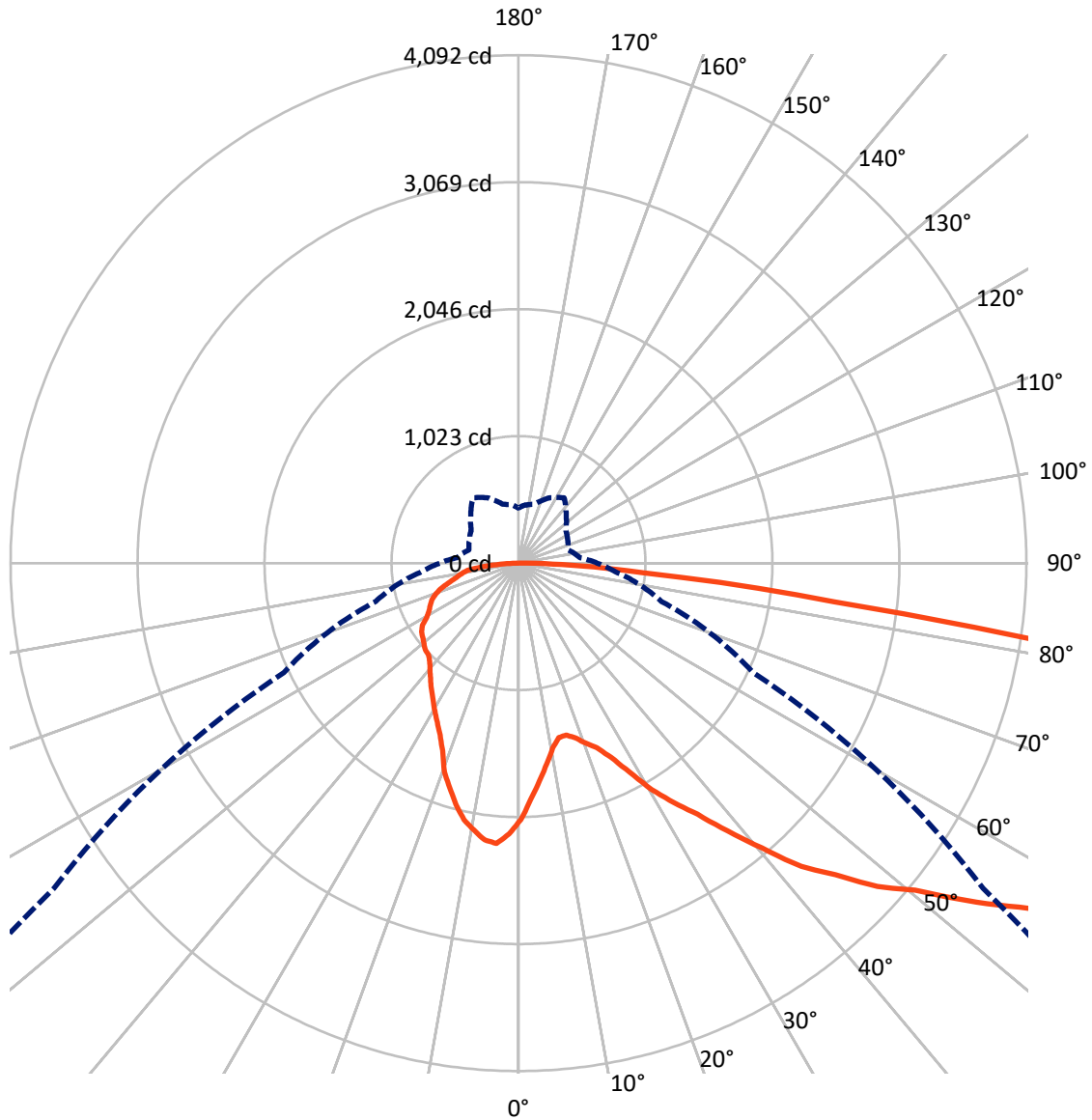
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 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	3114.5	0.0	3114.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	11303.7	0.0	11303.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	14418.3	0.0	14418.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.8	1.3
10°-20°	533.9	3.7
20°-30°	878.8	6.1
30°-40°	1314.2	9.1
40°-50°	1948.2	13.5
50°-60°	2807.6	19.5
60°-70°	3582.8	24.8
70°-80°	2788.0	19.3
80°-90°	374.0	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°	14418.3	100.0
0°-180°	14418.3	100.0

Coefficient of Utilization



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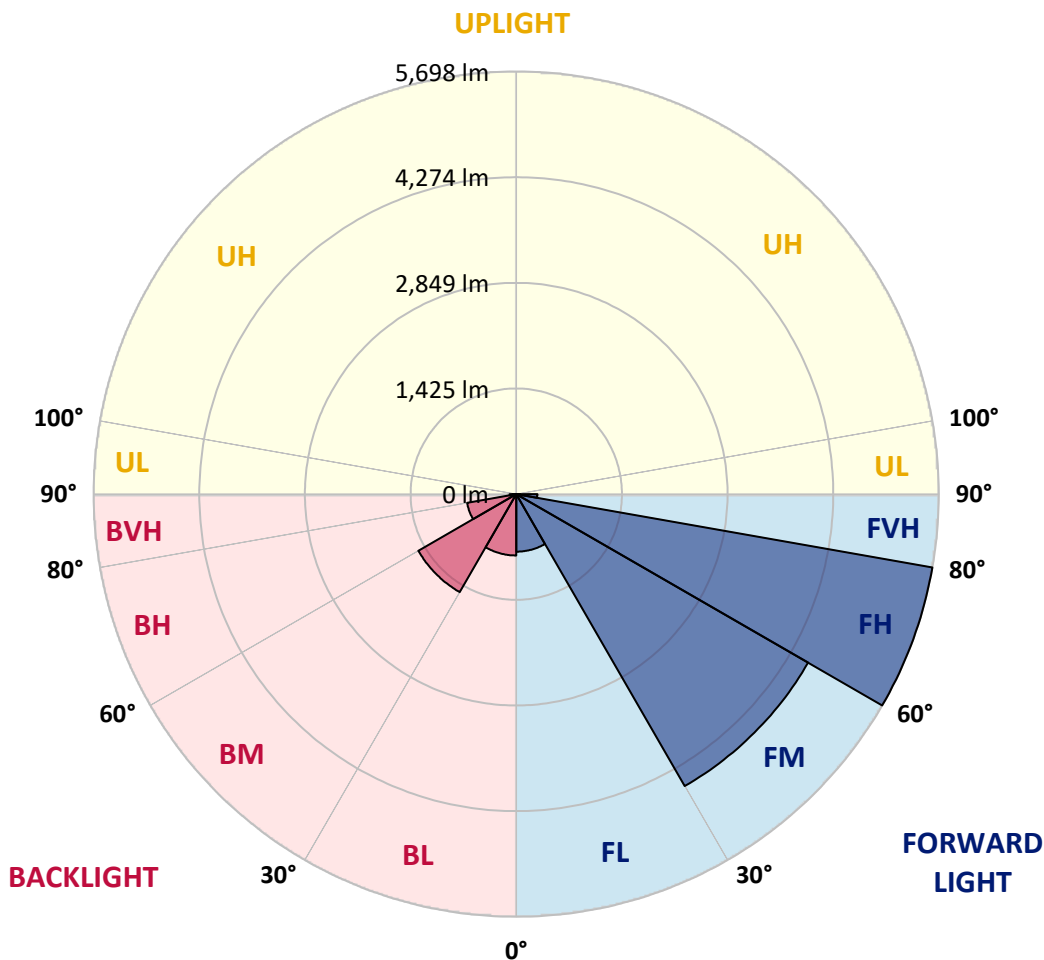
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.9	5.4			
FM (30°-60°)	4544.7	31.5			
FH (60°-80°)	5698.4	39.5			G3/7500
FVH (80°-90°)	284.7	2.0			G3/500
BL (0°-30°)	827.5	5.7	B2/1000		
BM (30°-60°)	1525.2	10.6	B2/2500		
BH (60°-80°)	672.5	4.7	B2/1000		G2/1000
BVH (80°-90°)	89.3	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°	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1
2.5°	1852.1	1858.2	1878.1	1882.6	1904.0	1891.8	1917.7	1963.4	1989.3	2027.5	2073.2
5°	1705.8	1679.9	1692.1	1739.3	1763.7	1769.8	1797.3	1875.0	1923.8	1980.2	2065.6
7.5°	1533.5	1529.0	1553.4	1583.9	1632.6	1637.2	1698.2	1766.8	1867.4	1992.4	2093.0
10°	1416.2	1436.0	1449.7	1481.7	1515.3	1515.3	1593.0	1711.9	1826.2	1946.7	2099.1
12.5°	1410.1	1397.9	1400.9	1417.7	1442.1	1472.6	1545.7	1652.4	1797.3	1937.5	2125.0
15°	1429.9	1434.5	1407.0	1428.4	1437.5	1448.2	1529.0	1649.4	1779.0	1969.5	2169.2
17.5°	1535.1	1509.2	1466.5	1446.7	1478.7	1478.7	1533.5	1628.1	1782.0	1986.3	2233.2
20°	1617.4	1617.4	1547.3	1525.9	1548.8	1544.2	1582.3	1652.4	1797.3	2019.8	2304.9
22.5°	1756.1	1775.9	1660.1	1615.9	1614.3	1626.5	1660.1	1719.5	1840.0	2067.1	2373.5
25°	1955.8	1960.4	1826.2	1780.5	1731.7	1751.5	1757.6	1817.1	1878.1	2122.0	2451.2
27.5°	2178.4	2175.3	2051.8	1937.5	1905.5	1910.1	1876.5	1916.2	1934.5	2138.7	2562.5
30°	2425.3	2397.9	2304.9	2143.3	2117.4	2088.4	2015.3	2013.7	2051.8	2233.2	2716.5
32.5°	2586.9	2551.8	2487.8	2372.0	2300.3	2303.4	2187.5	2186.0	2152.5	2336.9	2850.6
35°	2745.4	2692.1	2675.3	2556.4	2484.8	2492.4	2399.4	2387.2	2326.2	2493.9	3071.7
37.5°	2936.0	2888.7	2914.7	2824.7	2736.3	2699.7	2657.0	2641.8	2562.5	2715.0	3373.5
40°	3146.4	3131.1	3114.3	3070.1	3016.8	3019.8	2974.1	2958.9	2841.5	2981.7	3663.1
42.5°	3429.9	3372.0	3285.1	3314.0	3341.5	3370.4	3355.2	3315.6	3193.6	3253.1	3986.3
45°	3693.6	3617.4	3457.3	3466.5	3579.3	3602.2	3786.6	3782.0	3536.6	3597.6	4353.7
47.5°	3872.0	3836.9	3740.9	3730.2	3891.8	3890.3	4222.6	4222.6	3897.9	3940.6	4748.5
50°	4137.2	4045.8	4004.6	4058.0	4140.3	4196.7	4667.7	4696.7	4253.1	4298.8	5265.3
52.5°	4448.2	4333.9	4230.2	4367.4	4513.7	4550.3	5108.3	5096.1	4525.9	4715.0	5870.5
55°	4705.8	4647.9	4576.2	4655.5	4894.8	4940.6	5550.3	5437.5	4798.8	5059.5	6161.6
57.5°	5006.1	5041.2	5056.4	5036.6	5321.7	5393.3	6054.9	5731.7	5033.6	5291.2	6332.4
60°	5458.9	5480.2	5500.0	5547.3	5849.1	5949.7	6454.3	6100.6	5181.4	5425.3	6346.1
62.5°	6147.9	6065.6	6109.8	6272.9	6515.3	6629.6	7042.7	6359.8	5294.2	5506.1	5897.9
65°	6936.0	6824.7	6779.0	6989.4	7617.4	7526.0	7777.5	6553.4	5131.1	5204.3	5001.6
67.5°	7734.8	7747.0	7629.6	8051.9	8821.7	8821.7	8460.4	6646.4	4689.1	4218.0	3507.6
70°	8369.0	8407.1	8471.1	9289.7	10509.2	10693.7	9306.5	6265.3	3788.1	2807.9	1917.7
72.5°	8359.8	8245.5	8573.2	10080.9	12042.8	11888.8	9483.3	4954.3	2364.3	1375.0	879.6
73°	8172.3	8076.3	8434.5	10073.2	12105.3	11960.4	9353.7	4567.1	2085.4	1192.1	782.0
75°	6673.8	6500.0	7109.8	9123.5	11199.8	11311.0	7946.7	2978.7	1143.3	734.8	550.3
77.5°	3042.7	3118.9	3913.1	6120.5	8631.2	8762.3	5224.1	1288.1	626.5	515.2	405.5
80°	977.1	1025.9	1522.9	3042.7	5410.1	5646.4	2414.6	585.4	446.6	394.8	303.4
82.5°	373.5	372.0	638.7	1265.3	2564.0	2715.0	882.6	356.7	332.3	291.2	214.9
85°	131.1	137.2	240.9	500.0	1009.2	1056.4	306.4	198.2	230.2	195.1	123.5
87.5°	45.7	47.3	85.4	181.4	347.6	367.4	85.4	79.3	114.3	112.8	62.5
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°	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1	2067.1
2.5°	2088.4	2102.1	2106.7	2161.6	2161.6	2161.6	2182.9	2182.9	2176.8	2161.6	2198.2
5°	2097.6	2122.0	2169.2	2216.5	2228.7	2239.3	2268.3	2243.9	2253.1	2237.8	2251.5
7.5°	2123.5	2157.0	2245.4	2274.4	2254.6	2277.5	2247.0	2230.2	2213.4	2219.5	2198.2
10°	2167.7	2210.4	2251.5	2304.9	2266.8	2243.9	2181.4	2166.2	2112.8	2094.5	2111.3
12.5°	2222.6	2274.4	2344.5	2324.7	2251.5	2186.0	2118.9	2054.9	2022.9	1977.1	1989.3
15°	2277.5	2336.9	2347.6	2314.0	2222.6	2140.3	2018.3	1928.4	1896.4	1855.2	1876.5
17.5°	2336.9	2393.3	2375.0	2288.1	2164.6	2039.6	1900.9	1812.5	1745.4	1719.5	1719.5
20°	2425.3	2452.8	2423.8	2245.4	2094.5	1929.9	1795.7	1695.1	1628.1	1617.4	1600.6
22.5°	2493.9	2538.1	2408.6	2182.9	1992.4	1786.6	1632.6	1594.5	1574.7	1557.9	1536.6
25°	2582.3	2580.8	2381.1	2125.0	1817.1	1615.9	1522.9	1519.8	1510.7	1504.6	1533.5
27.5°	2666.2	2631.1	2349.1	1981.7	1635.7	1486.3	1436.0	1469.5	1483.2	1474.1	1486.3
30°	2798.8	2740.9	2303.4	1829.3	1475.6	1355.2	1364.3	1410.1	1432.9	1446.7	1428.4
32.5°	2939.0	2850.6	2208.9	1670.7	1333.9	1272.9	1294.2	1341.5	1368.9	1384.2	1400.9
35°	3141.8	2936.0	2112.8	1463.4	1231.7	1222.6	1234.8	1260.7	1300.3	1311.0	1315.6
37.5°	3391.8	3065.6	1983.2	1297.3	1152.4	1163.1	1175.3	1184.5	1186.0	1205.8	1198.2
40°	3641.8	3175.3	1794.2	1138.7	1070.1	1128.1	1122.0	1105.2	1091.5	1073.2	1068.6
42.5°	3861.3	3271.4	1583.9	1004.6	997.0	1091.5	1071.7	1029.0	997.0	983.2	960.4
45°	4108.3	3407.0	1372.0	920.7	940.6	1047.3	1041.2	975.6	934.5	885.7	879.6
47.5°	4428.4	3548.8	1169.2	833.8	887.2	1030.5	1033.5	949.7	890.2	824.7	815.6
50°	4838.4	3753.1	1015.3	797.3	855.2	1006.1	1010.7	914.6	836.9	769.8	763.7
52.5°	5231.7	3961.9	887.2	740.9	833.8	977.1	987.8	882.6	792.7	708.8	713.4
55°	5429.9	3885.7	777.4	699.7	785.1	929.9	969.5	859.8	725.6	667.7	666.2
57.5°	5474.1	3698.2	690.6	657.0	743.9	879.6	939.0	791.2	695.1	646.3	640.2
60°	5329.3	3370.4	622.0	611.3	692.1	827.7	868.9	754.6	664.6	625.0	615.9
62.5°	4972.6	3030.5	574.7	589.9	647.9	771.3	824.7	728.7	635.7	608.2	588.4
65°	4077.8	2492.4	536.6	548.8	602.1	716.5	797.3	699.7	609.8	583.8	582.3
67.5°	2824.7	1718.0	506.1	529.0	565.6	676.8	769.8	667.7	576.2	567.1	554.9
70°	1446.7	916.2	466.5	484.8	525.9	626.5	721.0	634.2	541.2	539.6	524.4
72.5°	733.2	536.6	420.7	448.2	477.1	561.0	660.1	589.9	497.0	480.2	455.8
73°	634.2	497.0	413.1	437.5	464.9	542.7	641.8	579.3	490.9	466.5	443.6
75°	461.9	391.8	370.4	394.8	416.2	489.3	580.8	530.5	451.2	425.3	404.0
77.5°	346.0	301.8	307.9	335.4	353.7	422.3	516.8	480.2	408.5	373.5	364.3
80°	254.6	230.2	254.6	280.5	294.2	372.0	471.0	416.2	344.5	304.9	297.3
82.5°	181.4	167.7	196.6	213.4	219.5	307.9	423.8	332.3	260.7	208.8	192.1
85°	103.7	102.1	132.6	131.1	135.7	179.9	279.0	221.0	167.7	128.0	125.0
87.5°	45.7	50.3	67.1	53.4	56.4	85.4	118.9	82.3	68.6	38.1	29.0
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)