

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: P478547

Luminaire Tested: **IFLD-S-SA3B-740-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478547
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-740-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

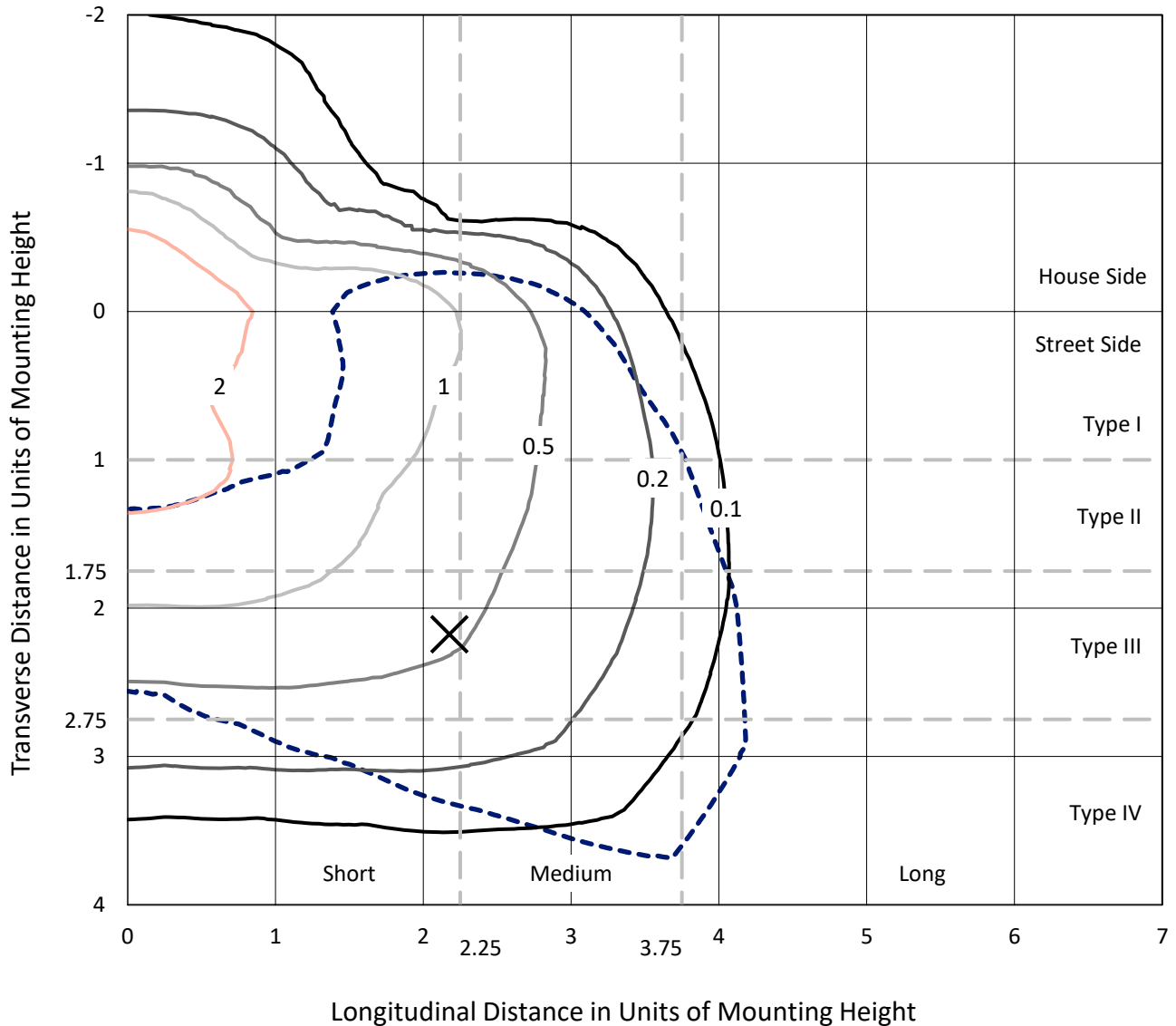
Lumens per Lamp: N/A
Luminaire Lumens: 17199.3 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

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

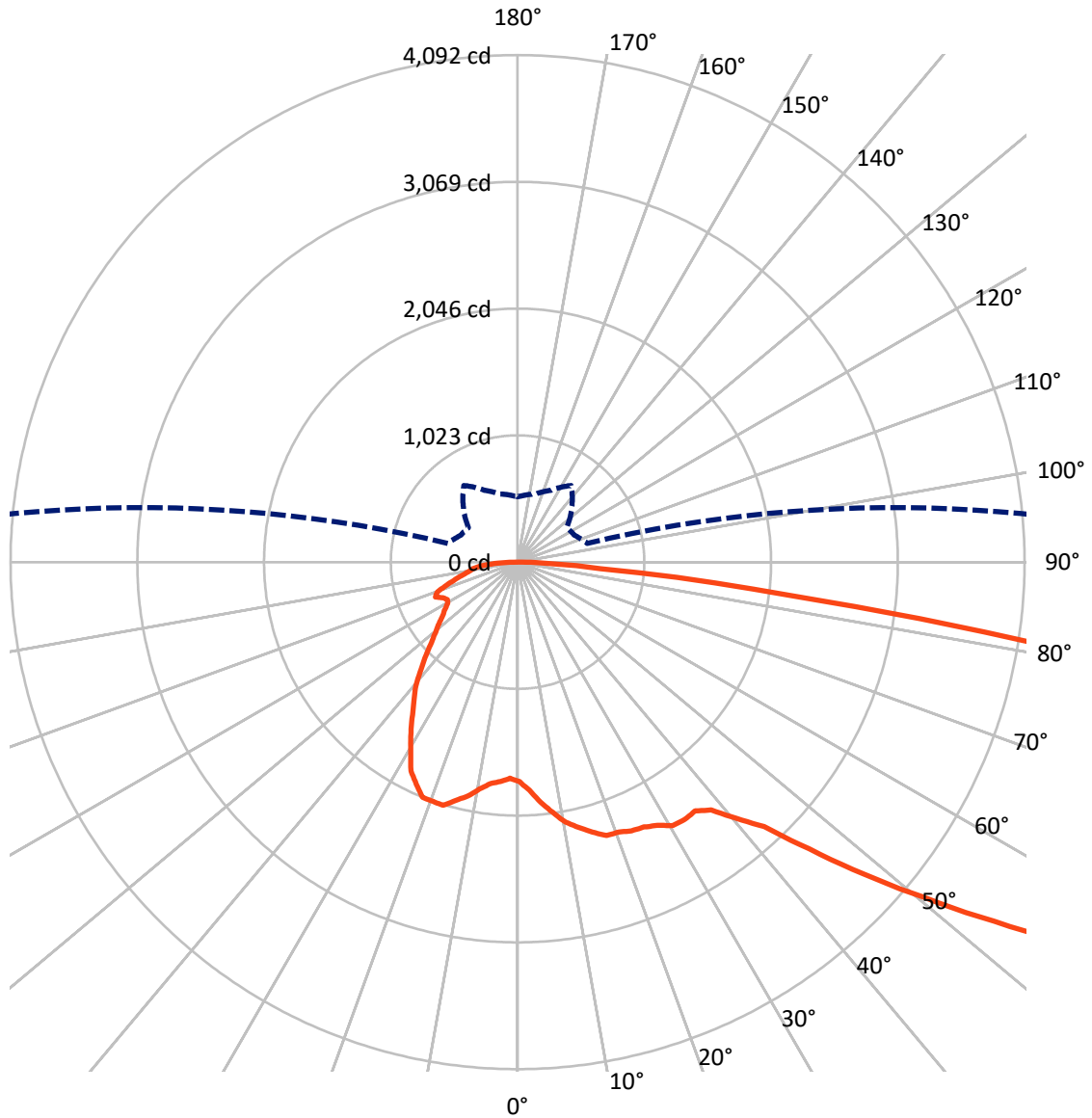
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3828.7	0.0	3828.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	13370.6	0.0	13370.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	17199.3	0.0	17199.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	1.1
10°-20°	603.0	3.5
20°-30°	1018.3	5.9
30°-40°	1409.2	8.2
40°-50°	2015.7	11.7
50°-60°	3251.1	18.9
60°-70°	4794.9	27.9
70°-80°	3481.9	20.2
80°-90°	443.9	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°	17199.3	100.0
0°-180°	17199.3	100.0

Coefficient of Utilization



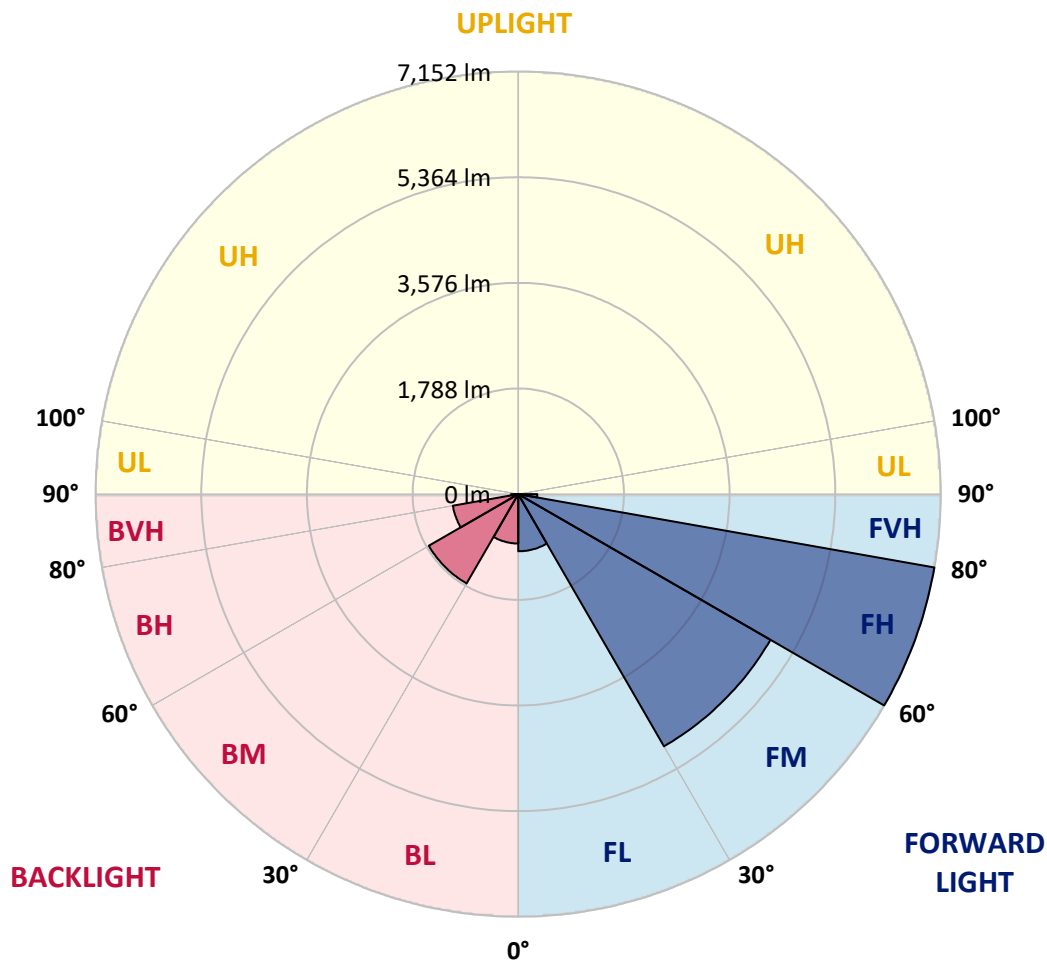
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	966.6	5.6			
FM (30°-60°)	4928.7	28.7			
FH (60°-80°)	7152.2	41.6			G3/7500
FVH (80°-90°)	323.1	1.9			G3/500
BL (0°-30°)	836.0	4.9	B2/1000		
BM (30°-60°)	1747.3	10.2	B2/2500		
BH (60°-80°)	1124.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	120.8	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2
2.5°	1865.8	1876.9	1865.8	1863.9	1845.4	1832.4	1843.5	1826.9	1808.3	1800.9	1784.2
5°	2036.4	2038.3	2017.9	2019.7	1980.8	1940.0	1947.4	1897.3	1843.5	1823.1	1789.8
7.5°	2210.8	2190.4	2160.7	2151.4	2090.2	2045.7	2040.1	1995.6	1912.2	1865.8	1819.4
10°	2323.9	2331.3	2283.1	2242.3	2190.4	2136.6	2134.7	2051.3	2003.1	1934.4	1875.1
12.5°	2424.1	2425.9	2385.1	2320.2	2255.3	2188.5	2197.8	2160.7	2079.1	2014.2	1954.8
15°	2502.0	2490.8	2446.3	2387.0	2318.3	2266.4	2260.9	2229.3	2160.7	2106.9	2008.6
17.5°	2524.2	2518.7	2474.1	2411.1	2344.3	2305.4	2320.2	2268.3	2240.4	2192.2	2097.6
20°	2481.6	2468.6	2461.2	2390.7	2342.5	2338.7	2325.8	2336.9	2290.5	2246.0	2177.4
22.5°	2403.7	2398.1	2394.4	2338.7	2316.5	2333.2	2355.4	2372.1	2364.7	2322.1	2244.2
25°	2323.9	2349.9	2325.8	2299.8	2331.3	2374.0	2368.4	2422.2	2422.2	2409.2	2344.3
27.5°	2379.5	2362.9	2344.3	2331.3	2342.5	2409.2	2405.5	2470.4	2494.5	2470.4	2396.2
30°	2518.7	2502.0	2448.2	2390.7	2375.8	2448.2	2466.7	2524.2	2535.3	2476.0	2412.9
32.5°	2780.2	2770.9	2685.6	2516.8	2425.9	2466.7	2476.0	2540.9	2531.6	2494.5	2468.6
35°	3167.8	3136.3	3017.6	2731.9	2531.6	2490.8	2466.7	2518.7	2553.9	2535.3	2511.2
37.5°	3592.5	3557.3	3410.7	3049.1	2722.7	2555.7	2537.2	2579.9	2620.7	2611.4	2561.3
40°	3998.7	3998.7	3867.0	3446.0	3006.4	2713.4	2717.1	2668.9	2706.0	2689.3	2698.6
42.5°	4399.3	4384.5	4330.7	3911.5	3310.6	2976.8	2917.4	2796.9	2863.6	2858.1	2871.0
45°	4805.5	4794.3	4779.5	4345.5	3746.4	3332.9	3301.3	3084.3	3145.5	3119.6	3175.2
47.5°	5130.0	5143.0	5143.0	4829.6	4212.0	3807.6	3761.3	3418.2	3535.0	3548.0	3561.0
50°	5406.4	5411.9	5406.4	5291.4	4731.3	4351.1	4256.5	3907.8	4024.6	4126.7	4245.4
52.5°	5788.4	5795.9	5769.9	5725.4	5436.1	4922.3	4816.6	4429.0	4668.2	4775.8	4989.1
55°	6259.5	6203.9	6155.7	6189.1	6113.0	5551.0	5441.6	4966.8	5326.6	5469.4	5896.0
57.5°	6346.7	6394.9	6517.3	6782.6	6892.0	6163.1	6100.0	5627.1	6070.4	6194.6	6906.8
60°	6654.6	6574.8	6875.3	7450.2	7572.6	6960.6	6895.7	6350.4	6810.4	6940.2	7839.7
62.5°	6856.7	6853.0	7298.2	7980.7	8258.9	7787.8	7656.1	7290.7	7609.7	7735.9	8856.1
65°	6797.4	6851.2	7641.3	8292.3	8832.0	8728.1	8652.1	8099.4	8520.4	8509.3	9518.2
67.5°	6255.8	6407.9	7424.3	8516.7	9685.1	9874.3	9850.2	9236.3	9260.4	9024.9	9813.1
70°	5504.7	5452.7	6506.2	8283.0	10111.7	11233.8	11228.2	10082.0	9926.2	9138.0	8967.4
72°	4228.7	4171.2	5037.3	7112.7	9887.3	11777.2	11944.1	10668.1	9918.8	8668.8	7407.6
72.5°	3839.2	3789.1	4651.5	6695.4	9638.8	11918.1	11840.3	10690.4	9840.9	8448.0	6919.8
75°	1767.5	1710.0	2323.9	4098.8	7518.9	10560.5	10825.7	10004.1	8594.6	6725.1	4145.2
77.5°	526.7	510.0	747.4	1654.4	4369.6	7780.4	7882.4	7548.5	5999.9	3683.4	1537.5
80°	293.0	294.9	385.8	619.5	1921.4	4497.6	4864.8	4662.7	2943.4	1216.7	511.9
82.5°	163.2	172.5	241.1	367.2	882.8	2064.3	2221.9	2142.2	1064.6	571.2	280.1
85°	85.3	89.0	126.1	196.6	500.8	652.8	671.4	719.6	552.7	389.5	150.2
87.5°	33.4	33.4	46.4	81.6	185.5	202.2	181.8	220.7	317.1	252.2	74.2
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°	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2	1771.2
2.5°	1799.0	1784.2	1782.3	1758.2	1765.7	1745.3	1747.1	1743.4	1745.3	1741.5	1732.3
5°	1789.8	1778.6	1747.1	1767.5	1749.0	1774.9	1795.3	1787.9	1793.5	1791.6	1793.5
7.5°	1802.7	1787.9	1784.2	1773.1	1789.8	1800.9	1817.6	1863.9	1860.2	1865.8	1876.9
10°	1841.7	1825.0	1813.9	1830.6	1821.3	1856.5	1875.1	1899.2	1941.8	1943.7	1921.4
12.5°	1917.7	1906.6	1884.4	1888.1	1919.6	1930.7	1941.8	1956.7	1984.5	1978.9	1999.3
15°	2004.9	1980.8	1967.8	1964.1	1971.5	1984.5	1982.6	1997.5	2012.3	2025.3	2019.7
17.5°	2068.0	2036.4	2040.1	2058.7	2056.8	2053.1	2029.0	2021.6	2029.0	2036.4	2032.7
20°	2132.9	2136.6	2108.8	2092.1	2084.7	2047.6	2029.0	2006.8	1984.5	1995.6	2012.3
22.5°	2214.5	2197.8	2157.0	2106.9	2069.8	2047.6	1990.1	1951.1	1951.1	1962.2	1956.7
25°	2307.2	2272.0	2201.5	2110.6	2064.3	1969.7	1928.9	1923.3	1908.5	1925.2	1932.6
27.5°	2379.5	2348.0	2251.6	2097.6	1969.7	1893.6	1869.5	1862.1	1886.2	1888.1	1917.7
30°	2409.2	2400.0	2259.0	2064.3	1873.2	1750.8	1736.0	1769.4	1795.3	1834.3	1836.1
32.5°	2448.2	2451.9	2270.1	1986.4	1747.1	1624.7	1602.4	1643.2	1717.4	1749.0	1773.1
35°	2513.1	2531.6	2260.9	1889.9	1613.6	1496.7	1493.0	1504.1	1576.5	1632.1	1663.6
37.5°	2626.2	2622.5	2259.0	1774.9	1507.9	1385.4	1355.8	1359.5	1407.7	1454.1	1448.5
40°	2778.3	2763.5	2253.4	1624.7	1370.6	1290.9	1240.8	1222.2	1218.5	1205.5	1209.2
42.5°	2986.0	2956.4	2251.6	1472.6	1246.3	1161.0	1125.8	1077.6	1042.3	975.6	979.3
45°	3275.4	3223.4	2203.4	1329.8	1123.9	1053.5	999.7	964.4	888.4	804.9	804.9
47.5°	3722.3	3553.6	2205.2	1172.2	1005.2	947.7	910.6	849.4	767.8	701.1	693.6
50°	4380.7	3995.0	2142.2	1047.9	908.8	869.8	830.9	760.4	682.5	636.2	641.7
52.5°	5230.2	4653.4	2140.3	936.6	832.7	804.9	762.3	699.2	641.7	612.0	600.9
55°	6242.8	5525.1	2207.1	845.7	754.9	740.0	721.5	669.5	613.9	587.9	586.1
57.5°	7279.6	6376.4	2314.6	780.8	688.1	699.2	686.2	645.4	600.9	571.2	567.5
60°	8201.4	7051.5	2097.6	702.9	628.7	652.8	671.4	636.2	612.0	610.2	597.2
62.5°	8896.9	7340.8	1595.0	643.6	597.2	641.7	691.8	714.1	702.9	717.8	719.6
65°	9151.0	7166.5	1098.0	612.0	573.1	667.7	779.0	771.5	706.6	678.8	693.6
67.5°	8794.9	6459.8	814.2	574.9	556.4	721.5	829.0	736.3	638.0	634.3	623.2
70°	7563.4	5475.0	664.0	536.0	528.6	691.8	806.8	682.5	600.9	576.8	565.7
72°	6025.8	4263.9	582.4	508.2	484.1	617.6	754.9	639.9	569.4	539.7	526.7
72.5°	5501.0	3952.3	571.2	495.2	474.8	600.9	728.9	626.9	562.0	536.0	515.6
75°	3017.6	2023.5	502.6	454.4	400.6	519.3	675.1	587.9	530.4	493.3	489.6
77.5°	1122.1	784.5	434.0	402.5	346.8	448.8	613.9	558.3	482.2	435.8	426.6
80°	430.3	413.6	354.2	339.4	291.2	393.2	565.7	500.8	409.9	363.5	348.7
82.5°	261.5	241.1	268.9	265.2	222.6	358.0	532.3	469.2	363.5	294.9	285.6
85°	142.8	142.8	187.3	179.9	155.8	285.6	402.5	311.6	230.0	189.2	192.9
87.5°	63.1	74.2	100.2	94.6	85.3	161.4	196.6	165.1	115.0	77.9	83.5
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)