

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: P478194

Luminaire Tested: **IFLD-S-SA2E-750-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478194
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-750-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

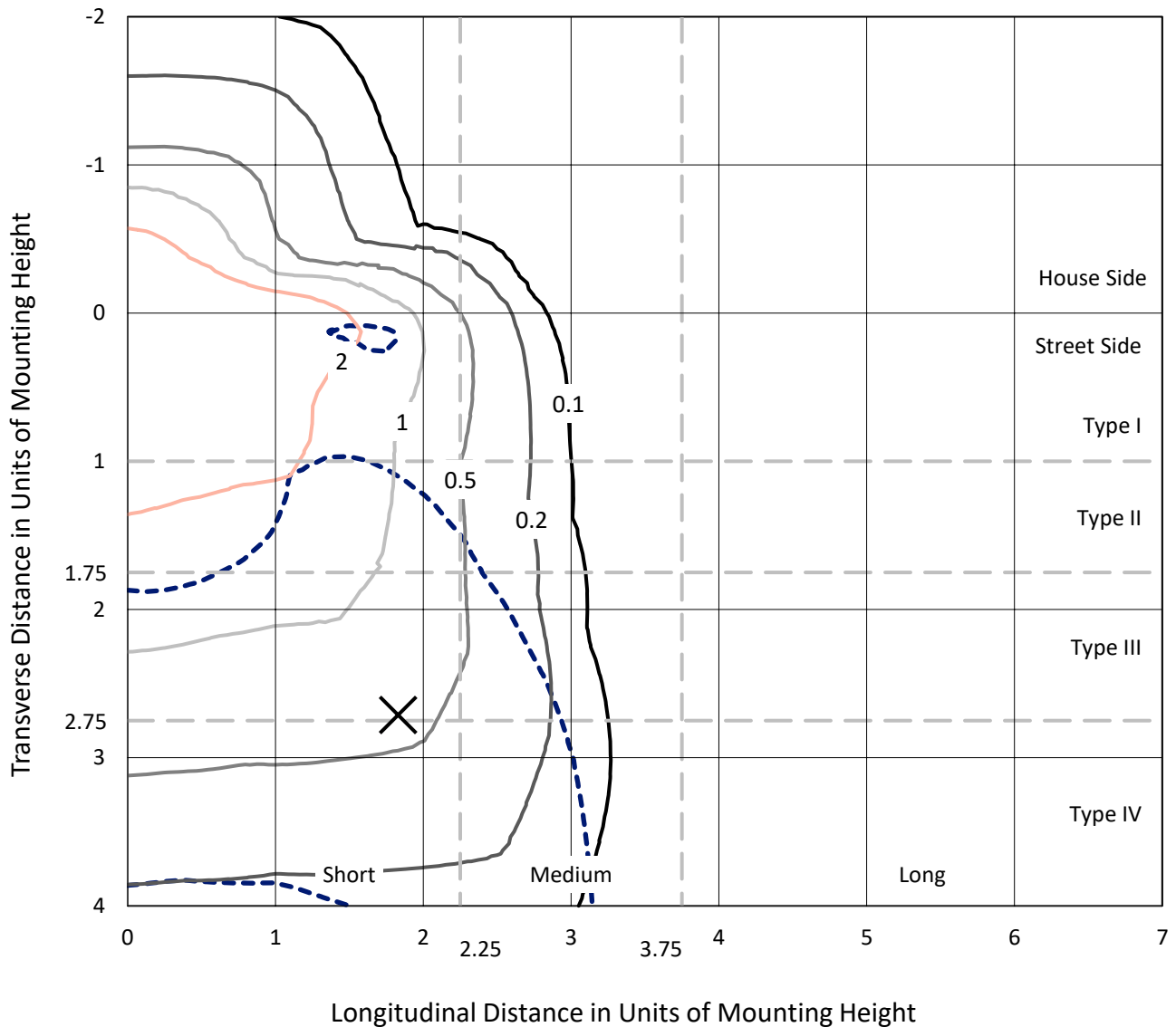
Lumens per Lamp: N/A
Luminaire Lumens: 18967.3 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2
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

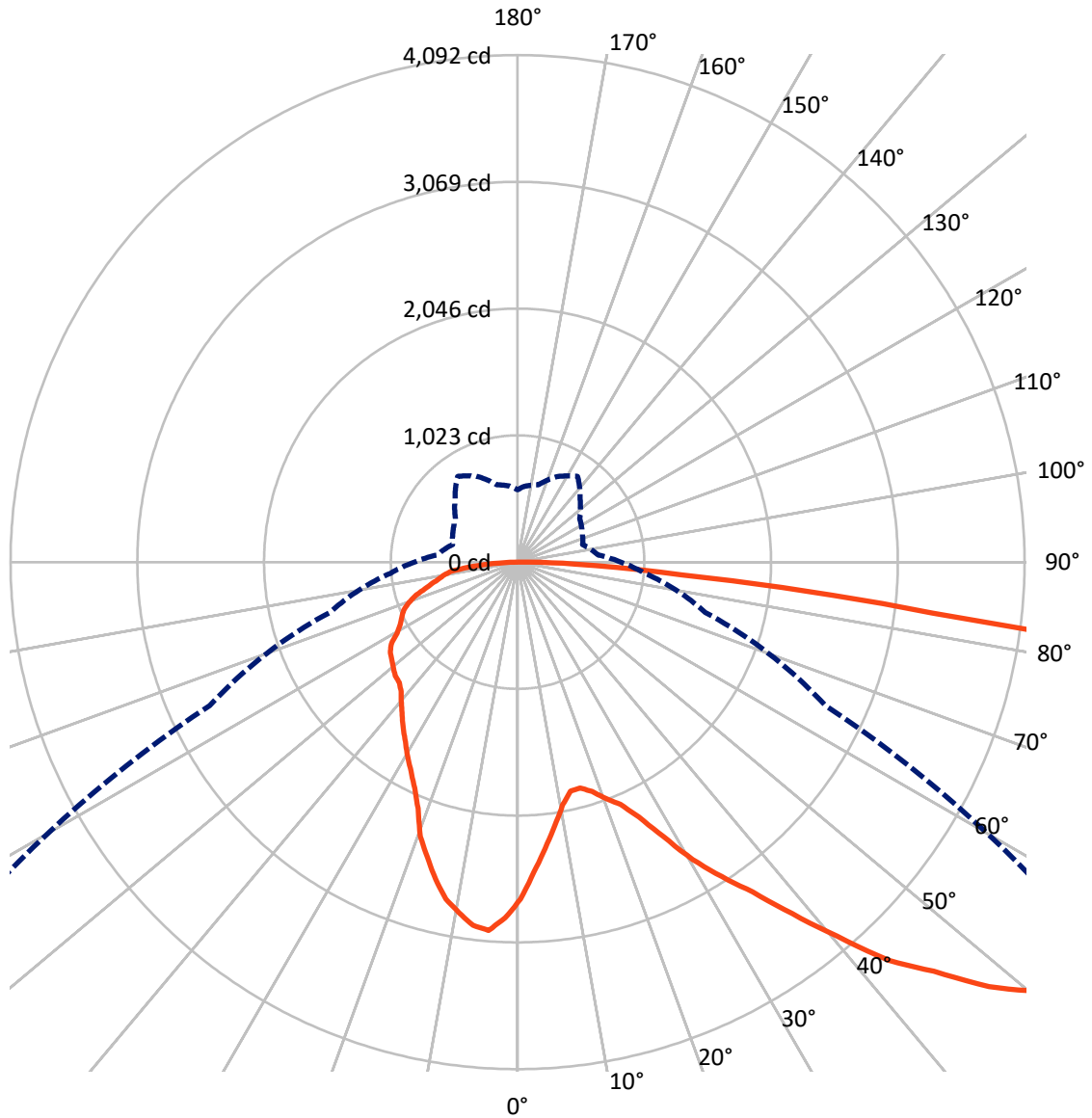
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	4097.2	0.0	4097.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	14870.1	0.0	14870.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	18967.3	0.0	18967.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.0	1.3
10°-20°	702.4	3.7
20°-30°	1156.0	6.1
30°-40°	1728.8	9.1
40°-50°	2562.9	13.5
50°-60°	3693.3	19.5
60°-70°	4713.2	24.8
70°-80°	3667.7	19.3
80°-90°	492.0	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°	18967.3	100.0
0°-180°	18967.3	100.0

Coefficient of Utilization



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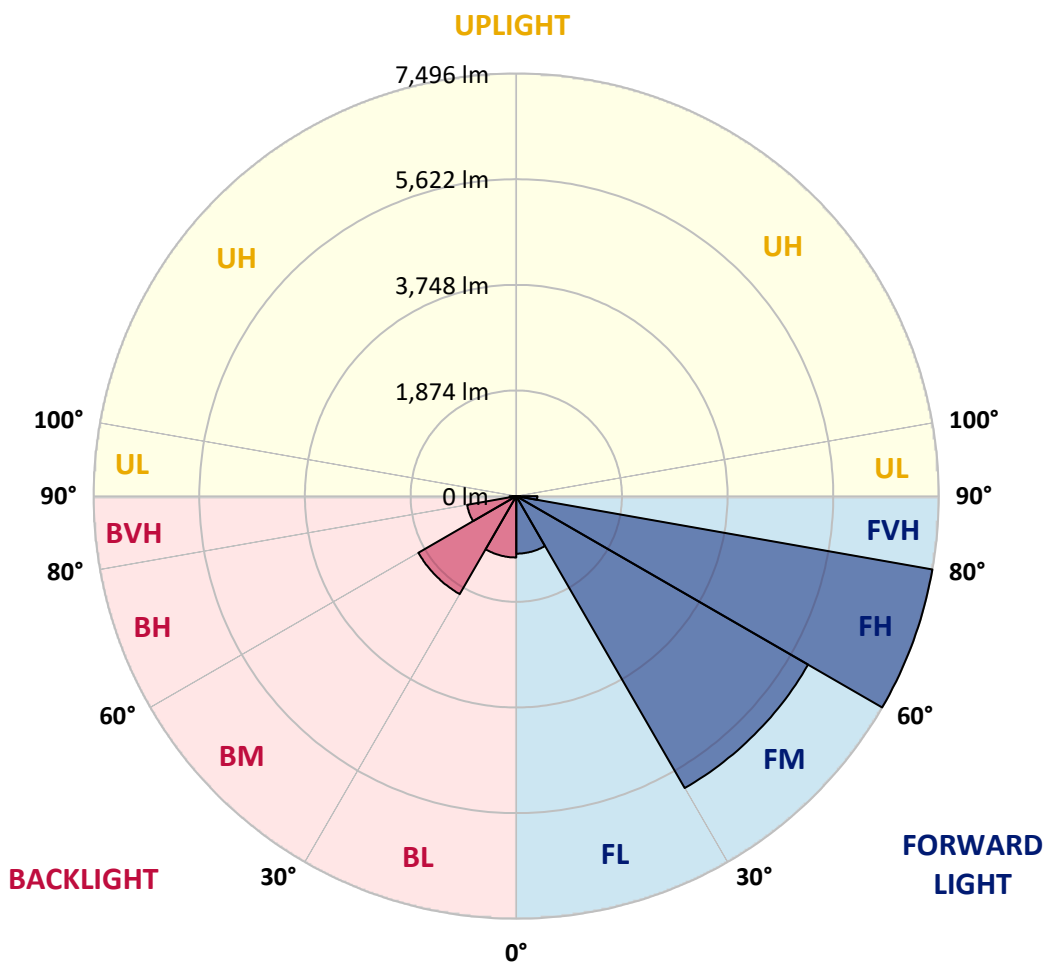
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1020.8	5.4			
FM (30°-60°)	5978.6	31.5			
FH (60°-80°)	7496.2	39.5			G3/7500
FVH (80°-90°)	374.5	2.0			G3/500
BL (0°-30°)	1088.6	5.7	B3/2500		
BM (30°-60°)	2006.4	10.6	B2/2500		
BH (60°-80°)	884.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	117.5	0.6			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°	34°	35°	45°	55°	65°	75°	85°
0°	2719.3	2719.3	2719.3	2719.3	2719.3	2719.3	2719.3	2719.3	2719.3	2719.3	2719.3
2.5°	2436.5	2444.5	2470.6	2476.6	2504.7	2488.6	2522.7	2582.9	2617.0	2667.1	2727.3
5°	2244.0	2209.9	2225.9	2288.1	2320.2	2328.2	2364.3	2466.6	2530.8	2605.0	2717.3
7.5°	2017.4	2011.4	2043.5	2083.6	2147.7	2153.7	2234.0	2324.2	2456.6	2621.0	2753.3
10°	1863.0	1889.0	1907.1	1949.2	1993.3	1993.3	2095.6	2252.0	2402.4	2560.8	2761.4
12.5°	1854.9	1838.9	1842.9	1865.0	1897.1	1937.2	2033.4	2173.8	2364.3	2548.8	2795.5
15°	1881.0	1887.0	1850.9	1879.0	1891.0	1905.1	2011.4	2169.8	2340.2	2590.9	2853.6
17.5°	2019.4	1985.3	1929.1	1903.1	1945.2	1945.2	2017.4	2141.7	2344.3	2613.0	2937.8
20°	2127.7	2127.7	2035.4	2007.4	2037.4	2031.4	2081.6	2173.8	2364.3	2657.1	3032.1
22.5°	2310.2	2336.2	2183.8	2125.7	2123.7	2139.7	2183.8	2262.0	2420.5	2719.3	3122.3
25°	2572.9	2578.9	2402.4	2342.3	2278.1	2304.1	2312.2	2390.4	2470.6	2791.4	3224.6
27.5°	2865.6	2861.6	2699.2	2548.8	2506.7	2512.7	2468.6	2520.7	2544.8	2813.5	3371.0
30°	3190.5	3154.4	3032.1	2819.5	2785.4	2747.3	2651.1	2649.1	2699.2	2937.8	3573.5
32.5°	3403.1	3357.0	3272.7	3120.3	3026.1	3030.1	2877.7	2875.7	2831.6	3074.2	3750.0
35°	3611.6	3541.5	3519.4	3363.0	3268.7	3278.7	3156.4	3140.4	3060.2	3280.8	4040.8
37.5°	3862.3	3800.1	3834.2	3715.9	3599.6	3551.5	3495.3	3475.3	3371.0	3571.5	4437.8
40°	4139.0	4119.0	4096.9	4038.8	3968.6	3972.6	3912.4	3892.4	3738.0	3922.5	4818.9
42.5°	4512.0	4435.8	4321.5	4359.6	4395.7	4433.8	4413.8	4361.6	4201.2	4279.4	5244.0
45°	4859.0	4758.7	4548.1	4560.2	4708.6	4738.6	4981.3	4975.3	4652.4	4732.6	5727.3
47.5°	5093.6	5047.5	4921.1	4907.1	5119.7	5117.7	5554.8	5554.8	5127.7	5183.8	6246.7
50°	5442.5	5322.2	5268.1	5338.2	5446.5	5520.7	6140.4	6178.5	5594.9	5655.1	6926.5
52.5°	5851.6	5701.2	5564.8	5745.3	5937.8	5986.0	6719.9	6703.9	5953.9	6202.6	7722.6
55°	6190.5	6114.3	6020.1	6124.3	6439.2	6499.3	7301.5	7153.1	6312.8	6655.8	8105.6
57.5°	6585.6	6631.7	6651.7	6625.7	7000.7	7094.9	7965.3	7540.1	6621.7	6960.6	8330.2
60°	7181.2	7209.2	7235.3	7297.5	7694.5	7826.9	8490.7	8025.4	6816.2	7137.0	8348.3
62.5°	8087.6	7979.3	8037.4	8252.0	8570.9	8721.3	9264.7	8366.3	6964.6	7243.3	7758.7
65°	9124.3	8978.0	8917.8	9194.5	10020.7	9900.4	10231.3	8621.0	6750.0	6846.3	6579.6
67.5°	10175.2	10191.2	10036.8	10592.3	11605.0	11605.0	11129.7	8743.3	6168.5	5548.8	4614.3
70°	11009.4	11059.5	11143.7	12220.6	13824.9	14067.5	12242.7	8242.0	4983.3	3693.9	2522.7
72.5°	10997.3	10846.9	11278.1	13261.4	15842.3	15639.7	12475.3	6517.4	3110.3	1808.8	1157.1
73°	10750.7	10624.4	11095.6	13251.4	15924.5	15734.0	12304.8	6008.0	2743.3	1568.2	1028.7
75°	8779.4	8550.8	9353.0	12002.0	14733.3	14879.7	10453.9	3918.5	1504.0	966.6	723.9
77.5°	4002.7	4102.9	5147.7	8051.5	11354.3	11526.8	6872.3	1694.5	824.2	677.8	533.4
80°	1285.4	1349.6	2003.3	4002.7	7117.0	7427.8	3176.5	770.1	587.6	519.4	399.1
82.5°	491.3	489.3	840.2	1664.4	3373.0	3571.5	1161.1	469.3	437.2	383.0	282.8
85°	172.5	180.5	316.8	657.8	1327.5	1389.7	403.1	260.7	302.8	256.7	162.4
87.5°	60.2	62.2	112.3	238.6	457.2	483.3	112.3	104.3	150.4	148.4	82.2
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°	2719.3	2719.3	2719.3	2719.3	2719.3	2719.3	2719.3	2719.3	2719.3	2719.3	2719.3
2.5°	2747.3	2765.4	2771.4	2843.6	2843.6	2843.6	2871.7	2871.7	2863.6	2843.6	2891.7
5°	2759.4	2791.4	2853.6	2915.8	2931.8	2945.9	2984.0	2951.9	2963.9	2943.9	2961.9
7.5°	2793.5	2837.6	2953.9	2992.0	2965.9	2996.0	2955.9	2933.8	2911.8	2919.8	2891.7
10°	2851.6	2907.8	2961.9	3032.1	2982.0	2951.9	2869.7	2849.6	2779.4	2755.4	2777.4
12.5°	2923.8	2992.0	3084.2	3058.2	2961.9	2875.7	2787.4	2703.2	2661.1	2600.9	2617.0
15°	2996.0	3074.2	3088.2	3044.1	2923.8	2815.5	2655.1	2536.8	2494.7	2440.5	2468.6
17.5°	3074.2	3148.4	3124.3	3010.0	2847.6	2683.2	2500.7	2384.4	2296.1	2262.0	2262.0
20°	3190.5	3226.6	3188.5	2953.9	2755.4	2538.8	2362.3	2230.0	2141.7	2127.7	2105.6
22.5°	3280.8	3338.9	3168.5	2871.7	2621.0	2350.3	2147.7	2097.6	2071.5	2049.5	2021.4
25°	3397.1	3395.1	3132.4	2795.5	2390.4	2125.7	2003.3	1999.3	1987.3	1979.3	2017.4
27.5°	3507.4	3461.2	3090.2	2607.0	2151.7	1955.2	1889.0	1933.2	1951.2	1939.2	1955.2
30°	3681.8	3605.6	3030.1	2406.4	1941.2	1782.8	1794.8	1854.9	1885.0	1903.1	1879.0
32.5°	3866.3	3750.0	2905.8	2197.9	1754.7	1674.5	1702.5	1764.7	1800.8	1820.9	1842.9
35°	4133.0	3862.3	2779.4	1925.1	1620.3	1608.3	1624.3	1658.4	1710.6	1724.6	1730.6
37.5°	4461.9	4032.8	2609.0	1706.6	1516.0	1530.1	1546.1	1558.2	1560.2	1586.2	1576.2
40°	4790.8	4177.1	2360.3	1498.0	1407.8	1484.0	1475.9	1453.9	1435.8	1411.8	1405.8
42.5°	5079.6	4303.5	2083.6	1321.5	1311.5	1435.8	1409.8	1353.6	1311.5	1293.5	1263.4
45°	5404.4	4482.0	1804.8	1211.2	1237.3	1377.7	1369.7	1283.4	1229.3	1165.1	1157.1
47.5°	5825.5	4668.5	1538.1	1096.9	1167.1	1355.6	1359.6	1249.3	1171.1	1084.9	1072.9
50°	6365.0	4937.2	1335.6	1048.8	1125.0	1323.5	1329.5	1203.2	1100.9	1012.7	1004.7
52.5°	6882.4	5211.9	1167.1	974.6	1096.9	1285.4	1299.5	1161.1	1042.8	932.5	938.5
55°	7143.1	5111.6	1022.7	920.5	1032.8	1223.3	1275.4	1131.0	954.5	878.3	876.3
57.5°	7201.2	4865.0	908.4	864.3	978.6	1157.1	1235.3	1040.8	914.4	850.3	842.2
60°	7010.7	4433.8	818.2	804.1	910.4	1088.9	1143.1	992.6	874.3	822.2	810.2
62.5°	6541.5	3986.6	756.0	776.1	852.3	1014.7	1084.9	958.6	836.2	800.1	774.1
65°	5364.3	3278.7	705.9	721.9	792.1	942.5	1048.8	920.5	802.1	768.0	766.0
67.5°	3715.9	2260.0	665.8	695.9	744.0	890.4	1012.7	878.3	758.0	746.0	729.9
70°	1903.1	1205.2	613.6	637.7	691.8	824.2	948.5	834.2	711.9	709.9	689.8
72.5°	964.6	705.9	553.5	589.6	627.7	738.0	868.3	776.1	653.7	631.7	599.6
73°	834.2	653.7	543.5	575.5	611.6	713.9	844.3	762.0	645.7	613.6	583.6
75°	607.6	515.4	487.3	519.4	547.5	643.7	764.0	697.9	593.6	559.5	531.4
77.5°	455.2	397.1	405.1	441.2	465.2	555.5	679.8	631.7	537.4	491.3	479.3
80°	334.9	302.8	334.9	369.0	387.0	489.3	619.7	547.5	453.2	401.1	391.0
82.5°	238.6	220.6	258.7	280.7	288.8	405.1	557.5	437.2	342.9	274.7	252.7
85°	136.4	134.4	174.5	172.5	178.5	236.6	367.0	290.8	220.6	168.4	164.4
87.5°	60.2	66.2	88.2	70.2	74.2	112.3	156.4	108.3	90.2	50.1	38.1
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)