

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: P478196

Luminaire Tested: **IFLD-S-SA3B-750-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478196
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-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

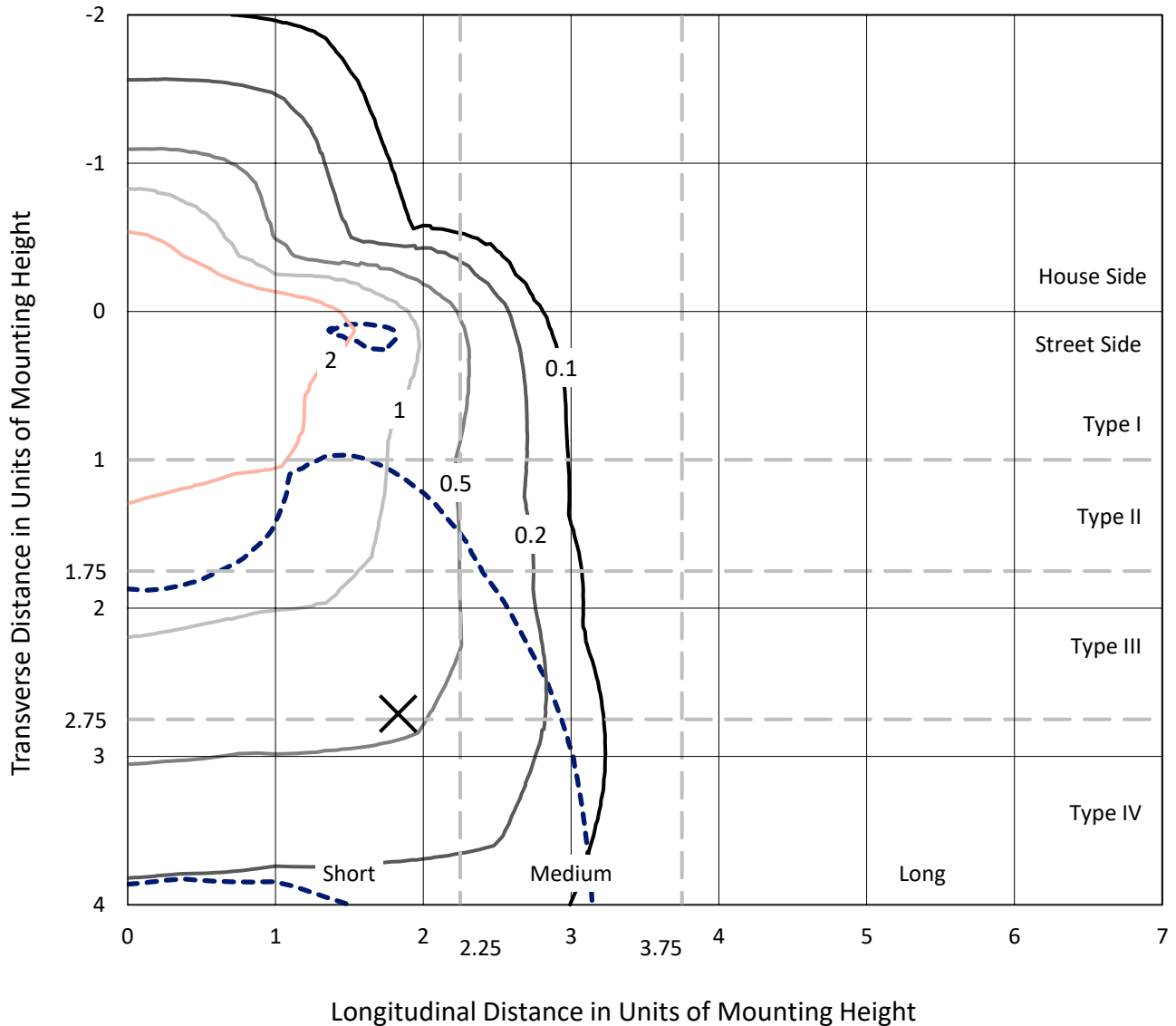
Lumens per Lamp: N/A
Luminaire Lumens: 17831.8 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

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

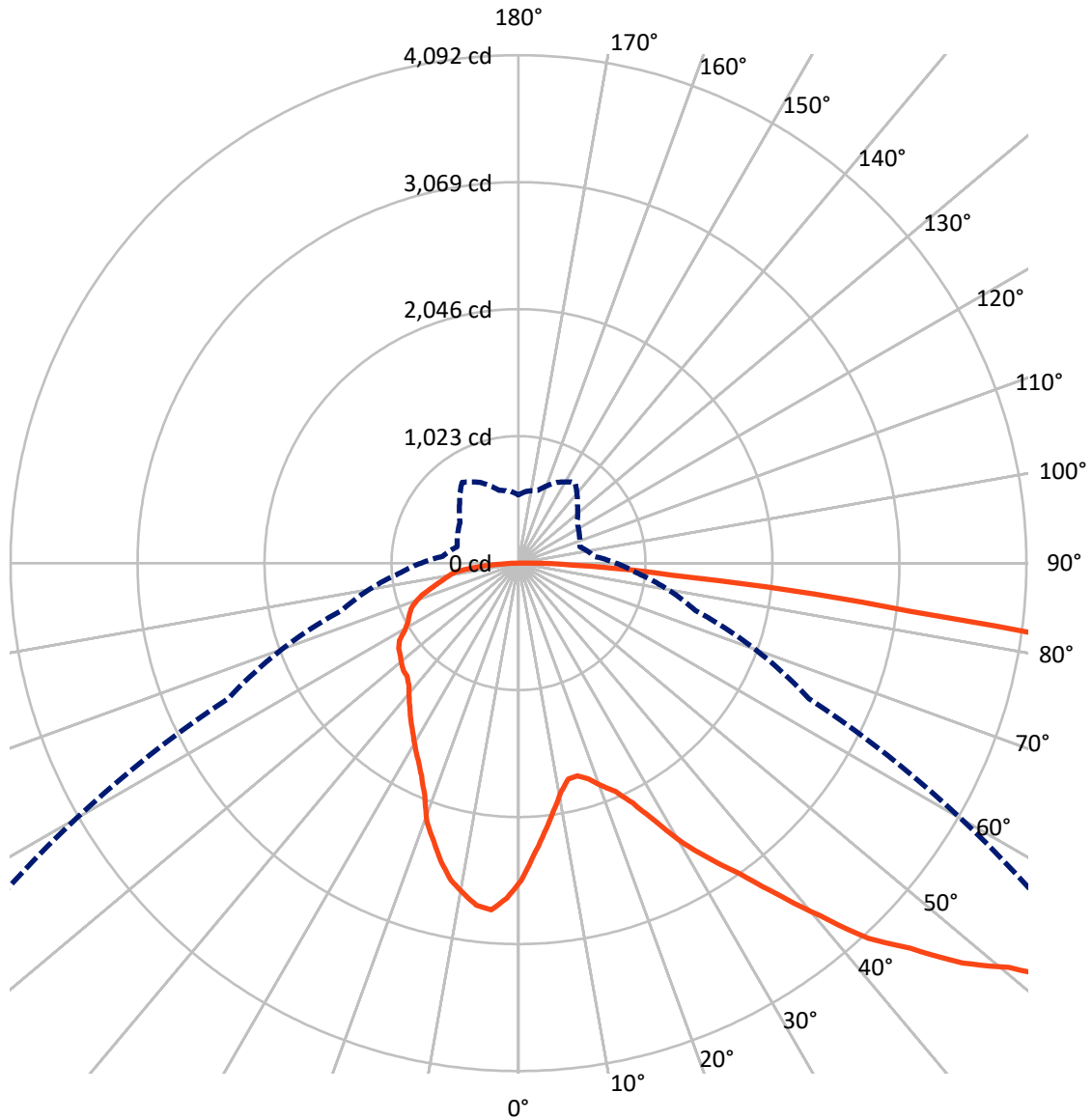
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	3851.9	0.0	3851.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	13979.9	0.0	13979.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	17831.8	0.0	17831.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.0	1.3
10°-20°	660.3	3.7
20°-30°	1086.8	6.1
30°-40°	1625.3	9.1
40°-50°	2409.4	13.5
50°-60°	3472.3	19.5
60°-70°	4431.1	24.8
70°-80°	3448.1	19.3
80°-90°	462.6	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°	17831.8	100.0
0°-180°	17831.8	100.0

Coefficient of Utilization



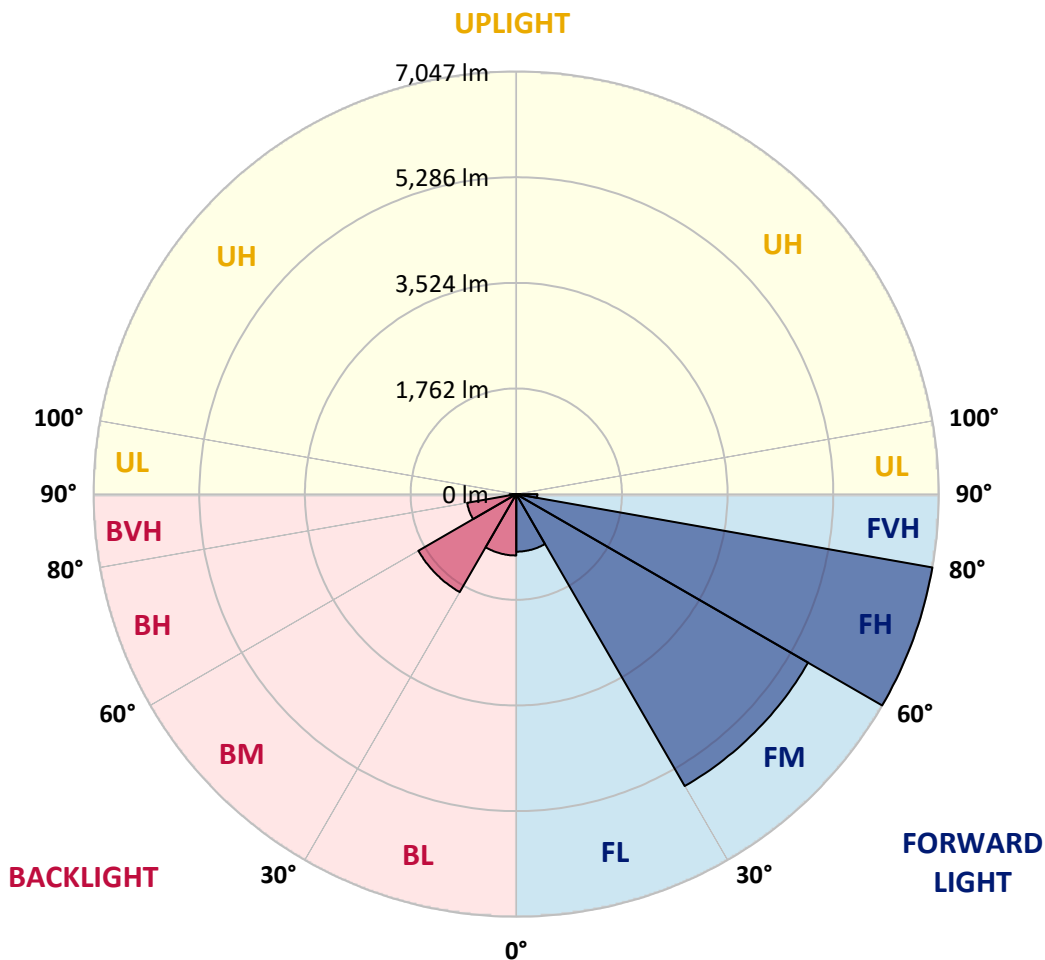
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	959.7	5.4			
FM (30°-60°)	5620.7	31.5			
FH (60°-80°)	7047.5	39.5			G3/7500
FVH (80°-90°)	352.1	2.0			G3/500
BL (0°-30°)	1023.4	5.7	B3/2500		
BM (30°-60°)	1886.3	10.6	B2/2500		
BH (60°-80°)	831.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	110.5	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°	2556.5	2556.5	2556.5	2556.5	2556.5	2556.5	2556.5	2556.5	2556.5	2556.5	2556.5
2.5°	2290.6	2298.2	2322.7	2328.3	2354.7	2339.7	2371.7	2428.3	2460.3	2507.5	2564.0
5°	2109.7	2077.6	2092.7	2151.1	2181.3	2188.8	2222.8	2318.9	2379.3	2449.0	2554.6
7.5°	1896.6	1891.0	1921.1	1958.8	2019.2	2024.8	2100.2	2185.1	2309.5	2464.1	2588.5
10°	1751.4	1776.0	1792.9	1832.5	1874.0	1874.0	1970.1	2117.2	2258.6	2407.5	2596.1
12.5°	1743.9	1728.8	1732.6	1753.3	1783.5	1821.2	1911.7	2043.7	2222.8	2396.2	2628.1
15°	1768.4	1774.1	1740.1	1766.5	1777.8	1791.0	1891.0	2039.9	2200.1	2435.8	2682.8
17.5°	1898.5	1866.4	1813.7	1789.2	1828.7	1828.7	1896.6	2013.5	2203.9	2456.5	2762.0
20°	2000.3	2000.3	1913.6	1887.2	1915.5	1909.8	1956.9	2043.7	2222.8	2498.0	2850.6
22.5°	2171.9	2196.4	2053.1	1998.4	1996.5	2011.6	2053.1	2126.6	2275.6	2556.5	2935.4
25°	2418.8	2424.5	2258.6	2202.0	2141.7	2166.2	2173.8	2247.3	2322.7	2624.3	3031.6
27.5°	2694.1	2690.3	2537.6	2396.2	2356.6	2362.3	2320.8	2369.8	2392.4	2645.1	3169.2
30°	2999.5	2965.6	2850.6	2650.7	2618.7	2582.9	2492.4	2490.5	2537.6	2762.0	3359.6
32.5°	3199.4	3156.0	3076.8	2933.5	2844.9	2848.7	2705.4	2703.5	2662.0	2890.2	3525.5
35°	3395.4	3329.4	3308.7	3161.7	3073.0	3082.5	2967.5	2952.4	2877.0	3084.4	3798.9
37.5°	3631.1	3572.6	3604.7	3493.5	3384.1	3338.9	3286.1	3267.2	3169.2	3357.7	4172.2
40°	3891.3	3872.4	3851.7	3797.0	3731.0	3734.8	3678.2	3659.4	3514.2	3687.7	4530.4
42.5°	4241.9	4170.3	4062.8	4098.6	4132.6	4168.4	4149.6	4100.5	3949.7	4023.2	4930.1
45°	4568.1	4473.8	4275.9	4287.2	4426.7	4455.0	4683.1	4677.4	4373.9	4449.3	5384.4
47.5°	4788.7	4745.3	4626.5	4613.3	4813.2	4811.3	5222.3	5222.3	4820.7	4873.5	5872.7
50°	5116.7	5003.6	4952.7	5018.7	5120.5	5190.2	5772.8	5808.6	5260.0	5316.6	6511.8
52.5°	5501.3	5359.9	5231.7	5401.4	5582.4	5627.6	6317.6	6302.6	5597.5	5831.2	7260.3
55°	5819.9	5748.3	5659.7	5757.7	6053.7	6110.3	6864.4	6724.9	5934.9	6257.3	7620.4
57.5°	6191.3	6234.7	6253.5	6229.0	6581.6	6670.2	7488.4	7088.7	6225.3	6543.9	7831.5
60°	6751.3	6777.7	6802.2	6860.6	7233.9	7358.3	7982.4	7545.0	6408.1	6709.8	7848.5
62.5°	7603.4	7501.6	7556.3	7758.0	8057.8	8199.2	8710.1	7865.5	6547.7	6809.7	7294.2
65°	8578.1	8440.5	8383.9	8644.1	9420.9	9307.7	9618.8	8104.9	6345.9	6436.4	6185.7
67.5°	9566.0	9581.1	9435.9	9958.2	10910.2	10910.2	10463.4	8219.9	5799.2	5216.6	4338.1
70°	10350.3	10397.4	10476.6	11489.0	12997.3	13225.4	11509.8	7748.6	4685.0	3472.7	2371.7
72.5°	10339.0	10197.6	10602.9	12467.5	14893.9	14703.5	11728.5	6127.2	2924.1	1700.5	1087.8
73°	10107.1	9988.3	10431.4	12458.1	14971.2	14792.1	11568.2	5648.4	2579.1	1474.3	967.2
75°	8253.9	8038.9	8793.1	11283.5	13851.3	13988.9	9828.1	3683.9	1414.0	908.7	680.6
77.5°	3763.1	3857.3	4839.6	7569.5	10674.6	10836.7	6460.9	1593.1	774.9	637.2	501.5
80°	1208.5	1268.8	1883.4	3763.1	6690.9	6983.2	2986.3	724.0	552.4	488.3	375.2
82.5°	461.9	460.0	789.9	1564.8	3171.1	3357.7	1091.6	441.2	411.0	360.1	265.8
85°	162.1	169.7	297.9	618.4	1248.1	1306.5	378.9	245.1	284.7	241.3	152.7
87.5°	56.6	58.4	105.6	224.4	429.8	454.4	105.6	98.0	141.4	139.5	77.3
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°	2556.5	2556.5	2556.5	2556.5	2556.5	2556.5	2556.5	2556.5	2556.5	2556.5	2556.5
2.5°	2582.9	2599.8	2605.5	2673.4	2673.4	2673.4	2699.8	2699.8	2692.2	2673.4	2718.6
5°	2594.2	2624.3	2682.8	2741.2	2756.3	2769.5	2805.3	2775.2	2786.5	2767.6	2784.6
7.5°	2626.2	2667.7	2777.1	2812.9	2788.4	2816.6	2778.9	2758.2	2737.5	2745.0	2718.6
10°	2680.9	2733.7	2784.6	2850.6	2803.4	2775.2	2697.9	2679.0	2613.0	2590.4	2611.1
12.5°	2748.8	2812.9	2899.6	2875.1	2784.6	2703.5	2620.6	2541.4	2501.8	2445.2	2460.3
15°	2816.6	2890.2	2903.4	2861.9	2748.8	2647.0	2496.1	2384.9	2345.3	2294.4	2320.8
17.5°	2890.2	2959.9	2937.3	2829.8	2677.1	2522.5	2351.0	2241.6	2158.7	2126.6	2126.6
20°	2999.5	3033.5	2997.6	2777.1	2590.4	2386.8	2220.9	2096.5	2013.5	2000.3	1979.6
22.5°	3084.4	3139.0	2978.8	2699.8	2464.1	2209.6	2019.2	1972.0	1947.5	1926.8	1900.4
25°	3193.7	3191.8	2944.8	2628.1	2247.3	1998.4	1883.4	1879.6	1868.3	1860.8	1896.6
27.5°	3297.4	3254.0	2905.3	2450.9	2022.9	1838.2	1776.0	1817.4	1834.4	1823.1	1838.2
30°	3461.4	3389.8	2848.7	2262.4	1825.0	1676.0	1687.3	1743.9	1772.2	1789.2	1766.5
32.5°	3634.9	3525.5	2731.8	2066.3	1649.6	1574.2	1600.6	1659.1	1693.0	1711.9	1732.6
35°	3885.6	3631.1	2613.0	1809.9	1523.3	1512.0	1527.1	1559.1	1608.2	1621.4	1627.0
37.5°	4194.8	3791.3	2452.8	1604.4	1425.3	1438.5	1453.6	1464.9	1466.8	1491.3	1481.8
40°	4504.0	3927.1	2219.0	1408.3	1323.5	1395.1	1387.6	1366.8	1349.9	1327.3	1321.6
42.5°	4775.5	4045.9	1958.8	1242.4	1233.0	1349.9	1325.4	1272.6	1233.0	1216.0	1187.7
45°	5080.9	4213.7	1696.8	1138.7	1163.2	1295.2	1287.7	1206.6	1155.7	1095.4	1087.8
47.5°	5476.8	4389.0	1446.0	1031.3	1097.2	1274.5	1278.2	1174.5	1101.0	1019.9	1008.6
50°	5984.0	4641.6	1255.6	986.0	1057.7	1244.3	1250.0	1131.2	1035.0	952.1	944.5
52.5°	6470.4	4899.9	1097.2	916.3	1031.3	1208.5	1221.7	1091.6	980.4	876.7	882.3
55°	6715.4	4805.6	961.5	865.4	970.9	1150.0	1199.1	1063.3	897.4	825.8	823.9
57.5°	6770.1	4573.7	854.0	812.6	920.0	1087.8	1161.3	978.5	859.7	799.4	791.8
60°	6591.0	4168.4	769.2	756.0	855.9	1023.7	1074.6	933.2	822.0	773.0	761.7
62.5°	6149.9	3748.0	710.8	729.6	801.3	954.0	1019.9	901.2	786.2	752.2	727.7
65°	5043.2	3082.5	663.6	678.7	744.7	886.1	986.0	865.4	754.1	722.1	720.2
67.5°	3493.5	2124.7	625.9	654.2	699.4	837.1	952.1	825.8	712.6	701.3	686.3
70°	1789.2	1133.1	576.9	599.5	650.4	774.9	891.7	784.3	669.3	667.4	648.5
72.5°	906.8	663.6	520.3	554.3	590.1	693.8	816.3	729.6	614.6	593.9	563.7
73°	784.3	614.6	510.9	541.1	575.0	671.2	793.7	716.4	607.1	576.9	548.6
75°	571.2	484.5	458.1	488.3	514.7	605.2	718.3	656.1	558.0	526.0	499.6
77.5°	428.0	373.3	380.8	414.8	437.4	522.2	639.1	593.9	505.3	461.9	450.6
80°	314.8	284.7	314.8	346.9	363.9	460.0	582.6	514.7	426.1	377.1	367.6
82.5°	224.4	207.4	243.2	263.9	271.5	380.8	524.1	411.0	322.4	258.3	237.5
85°	128.2	126.3	164.0	162.1	167.8	222.5	345.0	273.4	207.4	158.4	154.6
87.5°	56.6	62.2	83.0	66.0	69.8	105.6	147.1	101.8	84.8	47.1	35.8
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)