

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: P478295

Luminaire Tested: **IFLD-M-SA4C-827-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478295
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

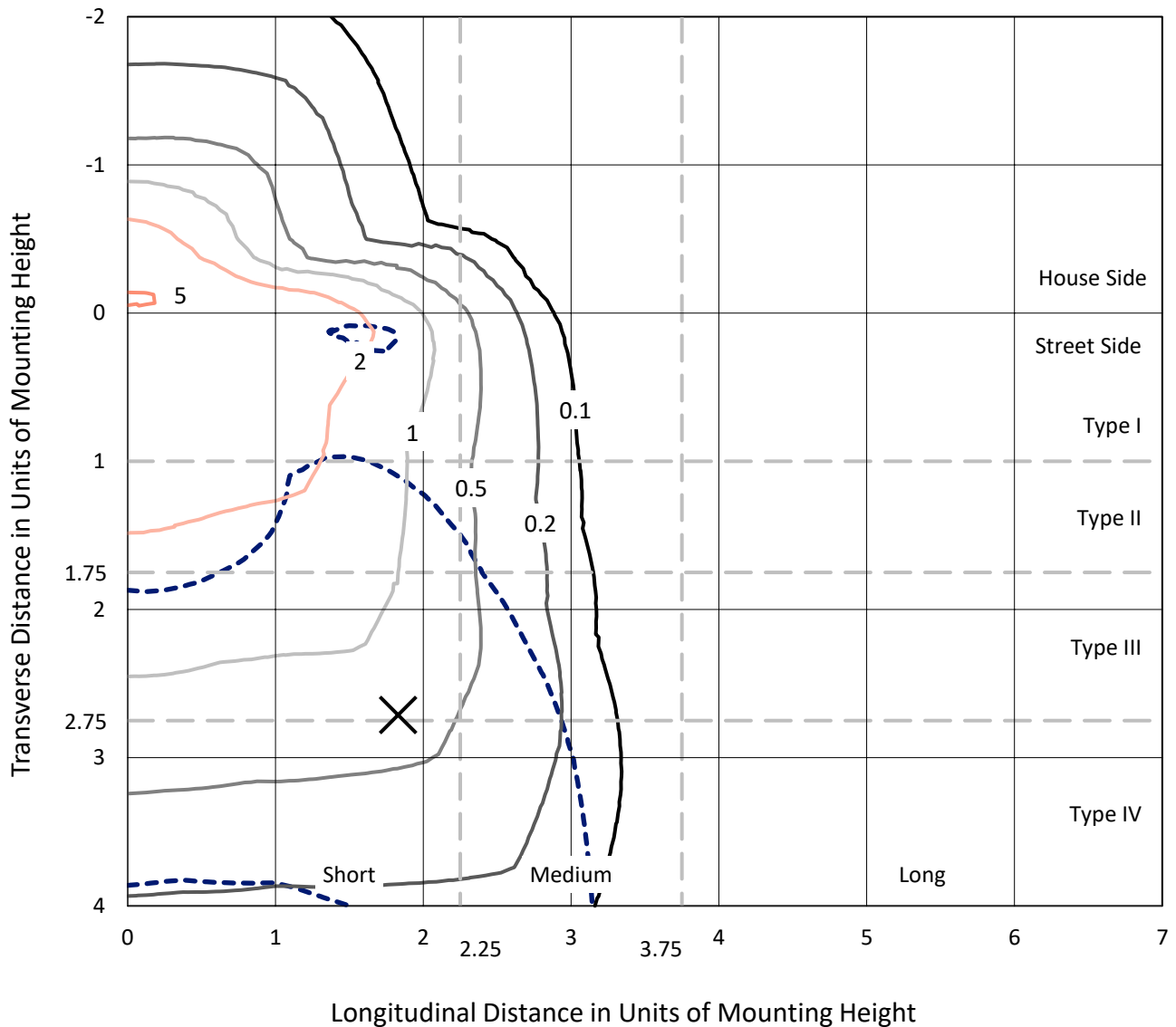
Lumens per Lamp: N/A
Luminaire Lumens: 21412 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

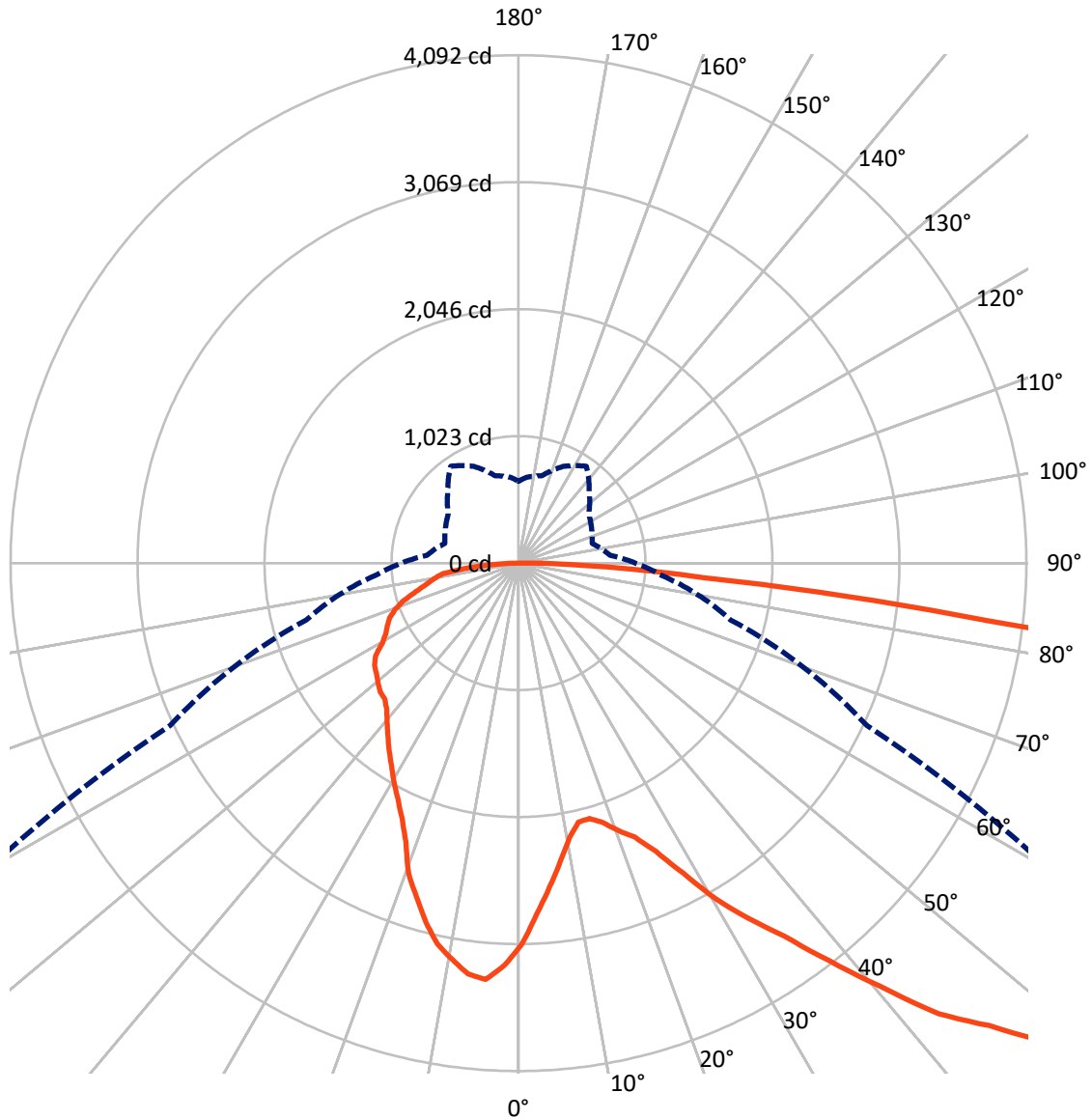
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	4625.3	0.0	4625.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	16786.7	0.0	16786.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	21412.0	0.0	21412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.3	1.3
10°-20°	792.9	3.7
20°-30°	1305.0	6.1
30°-40°	1951.6	9.1
40°-50°	2893.2	13.5
50°-60°	4169.4	19.5
60°-70°	5320.7	24.8
70°-80°	4140.4	19.3
80°-90°	555.5	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°	21412.0	100.0
0°-180°	21412.0	100.0

Coefficient of Utilization



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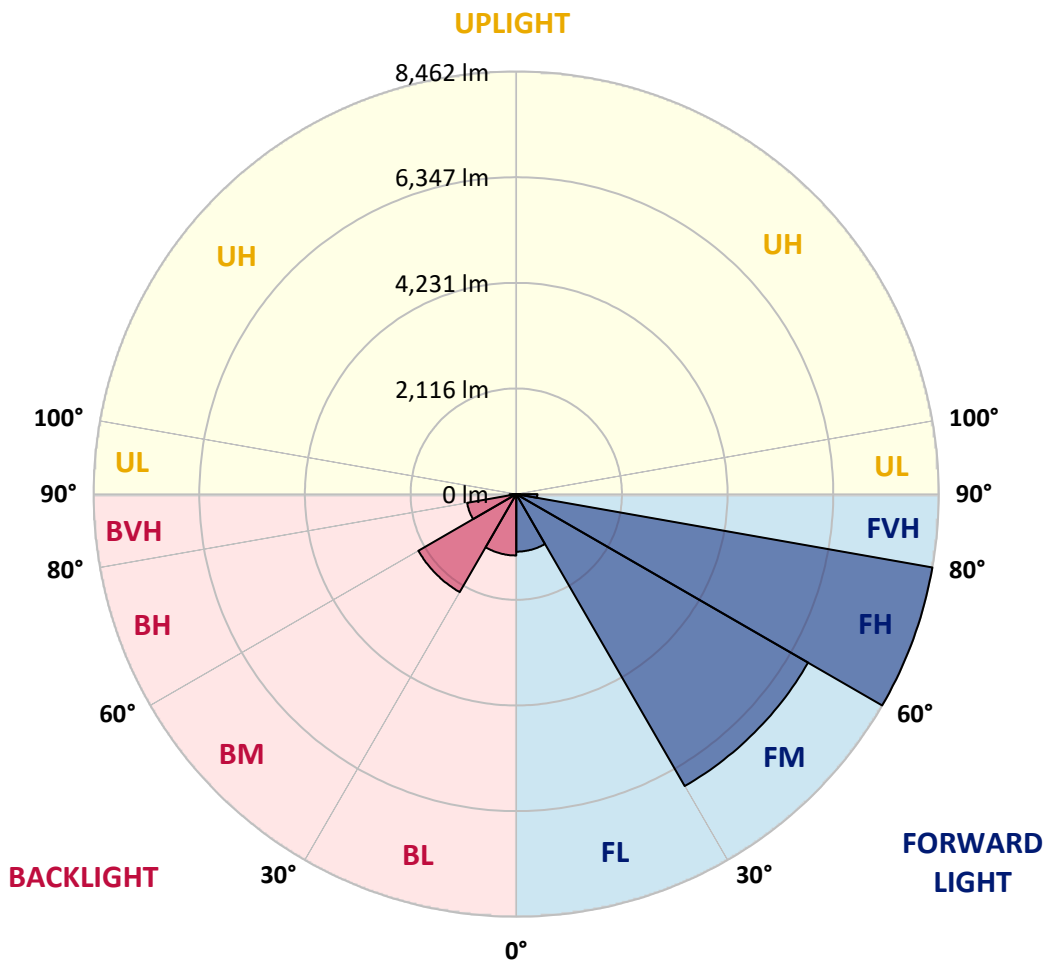
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1152.3	5.4			
FM (30°-60°)	6749.2	31.5			
FH (60°-80°)	8462.4	39.5			G4/12000
FVH (80°-90°)	422.8	2.0			G3/500
BL (0°-30°)	1228.9	5.7	B3/2500		
BM (30°-60°)	2265.0	10.6	B2/2500		
BH (60°-80°)	998.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	132.7	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3069.7	3069.7	3069.7	3069.7	3069.7	3069.7	3069.7	3069.7	3069.7	3069.7	3069.7
2.5°	2750.5	2759.6	2789.0	2795.8	2827.5	2809.4	2847.9	2915.8	2954.3	3010.9	3078.8
5°	2533.2	2494.7	2512.8	2583.0	2619.2	2628.3	2669.0	2784.5	2856.9	2940.7	3067.5
7.5°	2277.4	2270.6	2306.8	2352.1	2424.6	2431.3	2521.9	2623.8	2773.2	2958.8	3108.2
10°	2103.1	2132.5	2152.9	2200.4	2250.2	2250.2	2365.7	2542.3	2712.1	2890.9	3117.3
12.5°	2094.0	2075.9	2080.5	2105.4	2141.6	2186.9	2295.5	2454.0	2669.0	2877.3	3155.8
15°	2123.5	2130.3	2089.5	2121.2	2134.8	2150.6	2270.6	2449.5	2641.9	2924.9	3221.4
17.5°	2279.7	2241.2	2177.8	2148.4	2195.9	2195.9	2277.4	2417.8	2646.4	2949.8	3316.5
20°	2401.9	2401.9	2297.8	2266.1	2300.0	2293.3	2349.9	2454.0	2669.0	2999.6	3422.9
22.5°	2607.9	2637.4	2465.3	2399.7	2397.4	2415.5	2465.3	2553.6	2732.4	3069.7	3524.8
25°	2904.5	2911.3	2712.1	2644.1	2571.7	2601.1	2610.2	2698.5	2789.0	3151.2	3640.2
27.5°	3235.0	3230.5	3047.1	2877.3	2829.8	2836.6	2786.8	2845.6	2872.8	3176.1	3805.5
30°	3601.7	3561.0	3422.9	3182.9	3144.5	3101.4	2992.8	2990.5	3047.1	3316.5	4034.1
32.5°	3841.7	3789.6	3694.6	3522.5	3416.1	3420.6	3248.6	3246.3	3196.5	3470.4	4233.4
35°	4077.1	3997.9	3973.0	3796.4	3690.0	3701.4	3563.3	3545.2	3454.6	3703.6	4561.6
37.5°	4360.1	4289.9	4328.4	4194.9	4063.6	4009.2	3945.8	3923.2	3805.5	4031.9	5009.8
40°	4672.5	4649.9	4625.0	4559.3	4480.1	4484.6	4416.7	4394.1	4219.8	4428.0	5440.0
42.5°	5093.6	5007.6	4878.5	4921.6	4962.3	5005.3	4982.7	4923.8	4742.7	4831.0	5919.9
45°	5485.2	5372.1	5134.4	5147.9	5315.5	5349.4	5623.3	5616.6	5252.1	5342.6	6465.5
47.5°	5750.1	5698.0	5555.4	5539.6	5779.5	5777.3	6270.8	6270.8	5788.6	5852.0	7051.8
50°	6144.0	6008.2	5947.1	6026.3	6148.5	6232.3	6931.8	6974.8	6316.1	6384.0	7819.3
52.5°	6605.8	6436.1	6282.1	6485.9	6703.2	6757.5	7586.1	7568.0	6721.3	7002.0	8718.0
55°	6988.4	6902.4	6796.0	6913.7	7269.1	7337.1	8242.6	8075.1	7126.5	7513.6	9150.4
57.5°	7434.4	7486.5	7509.1	7479.7	7903.0	8009.4	8991.9	8512.0	7475.2	7857.7	9403.9
60°	8106.8	8138.5	8167.9	8238.1	8686.3	8835.7	9585.0	9059.8	7694.7	8057.0	9424.3
62.5°	9130.0	9007.8	9073.4	9315.6	9675.6	9845.4	10458.9	9444.7	7862.3	8176.9	8758.7
65°	10300.4	10135.1	10067.2	10379.6	11312.3	11176.5	11550.0	9732.2	7620.0	7728.7	7427.6
67.5°	11486.6	11504.8	11330.4	11957.5	13100.8	13100.8	12564.2	9870.3	6963.5	6264.0	5209.1
70°	12428.4	12485.0	12580.1	13795.8	15606.8	15880.7	13820.7	9304.3	5625.6	4170.0	2847.9
72.5°	12414.8	12245.0	12731.8	14970.7	17884.2	17655.6	14083.3	7357.4	3511.2	2042.0	1306.2
73°	12136.4	11993.7	12525.7	14959.4	17977.0	17762.0	13890.8	6782.4	3096.9	1770.3	1161.3
75°	9911.0	9653.0	10558.5	13549.0	16632.3	16797.6	11801.3	4423.5	1697.9	1091.2	817.2
77.5°	4518.6	4631.8	5811.2	9089.3	12817.8	13012.5	7758.1	1912.9	930.4	765.2	602.2
80°	1451.1	1523.6	2261.6	4518.6	8034.3	8385.2	3585.9	869.3	663.3	586.3	450.5
82.5°	554.6	552.4	948.5	1879.0	3807.8	4031.9	1310.8	529.7	493.5	432.4	319.2
85°	194.7	203.7	357.7	742.5	1498.7	1568.8	455.0	294.3	341.8	289.8	183.4
87.5°	67.9	70.2	126.8	269.4	516.2	545.6	126.8	117.7	169.8	167.5	92.8
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°	3069.7	3069.7	3069.7	3069.7	3069.7	3069.7	3069.7	3069.7	3069.7	3069.7	3069.7
2.5°	3101.4	3121.8	3128.6	3210.1	3210.1	3210.1	3241.8	3241.8	3232.7	3210.1	3264.4
5°	3115.0	3151.2	3221.4	3291.6	3309.7	3325.6	3368.6	3332.4	3345.9	3323.3	3343.7
7.5°	3153.5	3203.3	3334.6	3377.6	3348.2	3382.2	3336.9	3312.0	3287.1	3296.1	3264.4
10°	3219.2	3282.5	3343.7	3422.9	3366.3	3332.4	3239.5	3216.9	3137.7	3110.5	3135.4
12.5°	3300.7	3377.6	3481.8	3452.3	3343.7	3246.3	3146.7	3051.6	3004.1	2936.2	2954.3
15°	3382.2	3470.4	3486.3	3436.5	3300.7	3178.4	2997.3	2863.7	2816.2	2755.1	2786.8
17.5°	3470.4	3554.2	3527.0	3398.0	3214.6	3029.0	2823.0	2691.7	2592.1	2553.6	2553.6
20°	3601.7	3642.5	3599.5	3334.6	3110.5	2866.0	2666.8	2517.4	2417.8	2401.9	2377.0
22.5°	3703.6	3769.3	3576.8	3241.8	2958.8	2653.2	2424.6	2368.0	2338.5	2313.6	2281.9
25°	3834.9	3832.7	3536.1	3155.8	2698.5	2399.7	2261.6	2257.0	2243.5	2234.4	2277.4
27.5°	3959.4	3907.4	3488.6	2943.0	2429.1	2207.2	2132.5	2182.3	2202.7	2189.1	2207.2
30°	4156.4	4070.4	3420.6	2716.6	2191.4	2012.5	2026.1	2094.0	2128.0	2148.4	2121.2
32.5°	4364.7	4233.4	3280.3	2481.2	1980.8	1890.3	1922.0	1992.2	2032.9	2055.6	2080.5
35°	4665.7	4360.1	3137.7	2173.3	1829.2	1815.6	1833.7	1872.2	1931.0	1946.9	1953.7
37.5°	5037.0	4552.6	2945.2	1926.5	1711.5	1727.3	1745.4	1759.0	1761.3	1790.7	1779.4
40°	5408.3	4715.5	2664.5	1691.1	1589.2	1675.2	1666.2	1641.3	1620.9	1593.7	1586.9
42.5°	5734.3	4858.2	2352.1	1491.9	1480.5	1620.9	1591.5	1528.1	1480.5	1460.2	1426.2
45°	6101.0	5059.6	2037.4	1367.4	1396.8	1555.2	1546.2	1448.8	1387.7	1315.3	1306.2
47.5°	6576.4	5270.2	1736.4	1238.3	1317.5	1530.3	1534.9	1410.4	1322.1	1224.7	1211.1
50°	7185.4	5573.5	1507.7	1184.0	1270.0	1494.1	1500.9	1358.3	1242.8	1143.2	1134.2
52.5°	7769.4	5883.7	1317.5	1100.2	1238.3	1451.1	1467.0	1310.8	1177.2	1052.7	1059.5
55°	8063.7	5770.5	1154.6	1039.1	1165.9	1380.9	1439.8	1276.8	1077.6	991.6	989.3
57.5°	8129.4	5492.0	1025.5	975.7	1104.7	1306.2	1394.5	1174.9	1032.3	959.9	950.8
60°	7914.3	5005.3	923.6	907.8	1027.8	1229.3	1290.4	1120.6	987.0	928.2	914.6
62.5°	7384.6	4500.5	853.5	876.1	962.1	1145.5	1224.7	1082.1	944.0	903.3	873.8
65°	6055.7	3701.4	796.9	815.0	894.2	1064.0	1184.0	1039.1	905.5	867.0	864.8
67.5°	4194.9	2551.3	751.6	785.5	839.9	1005.1	1143.2	991.6	855.7	842.1	824.0
70°	2148.4	1360.6	692.7	719.9	781.0	930.4	1070.8	941.8	803.7	801.4	778.8
72.5°	1088.9	796.9	624.8	665.6	708.6	833.1	980.2	876.1	738.0	713.1	676.9
73°	941.8	738.0	613.5	649.7	690.5	805.9	953.1	860.3	729.0	692.7	658.8
75°	685.9	581.8	550.1	586.3	618.0	726.7	862.5	787.8	670.1	631.6	599.9
77.5°	513.9	448.2	457.3	498.0	525.2	627.1	767.4	713.1	606.7	554.6	541.1
80°	378.1	341.8	378.1	416.5	436.9	552.4	699.5	618.0	511.6	452.8	441.4
82.5°	269.4	249.0	292.0	316.9	326.0	457.3	629.3	493.5	387.1	310.1	285.2
85°	153.9	151.7	197.0	194.7	201.5	267.1	414.3	328.3	249.0	190.2	185.6
87.5°	67.9	74.7	99.6	79.2	83.8	126.8	176.6	122.2	101.9	56.6	43.0
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)