

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: P478155

Luminaire Tested: **IFLD-S-SA2E-740-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478155
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-740-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

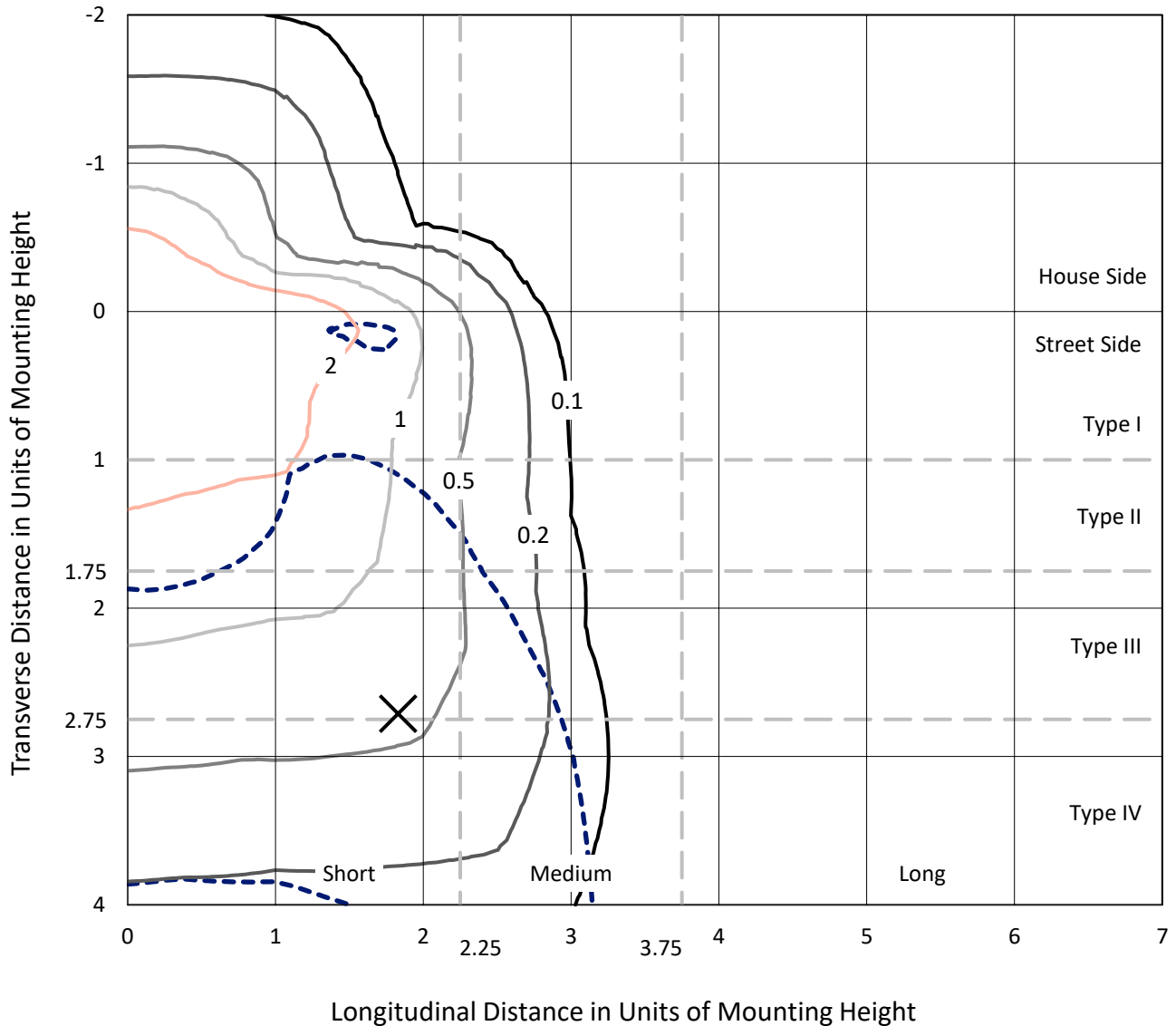
Lumens per Lamp: N/A
Luminaire Lumens: 18542.7 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 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

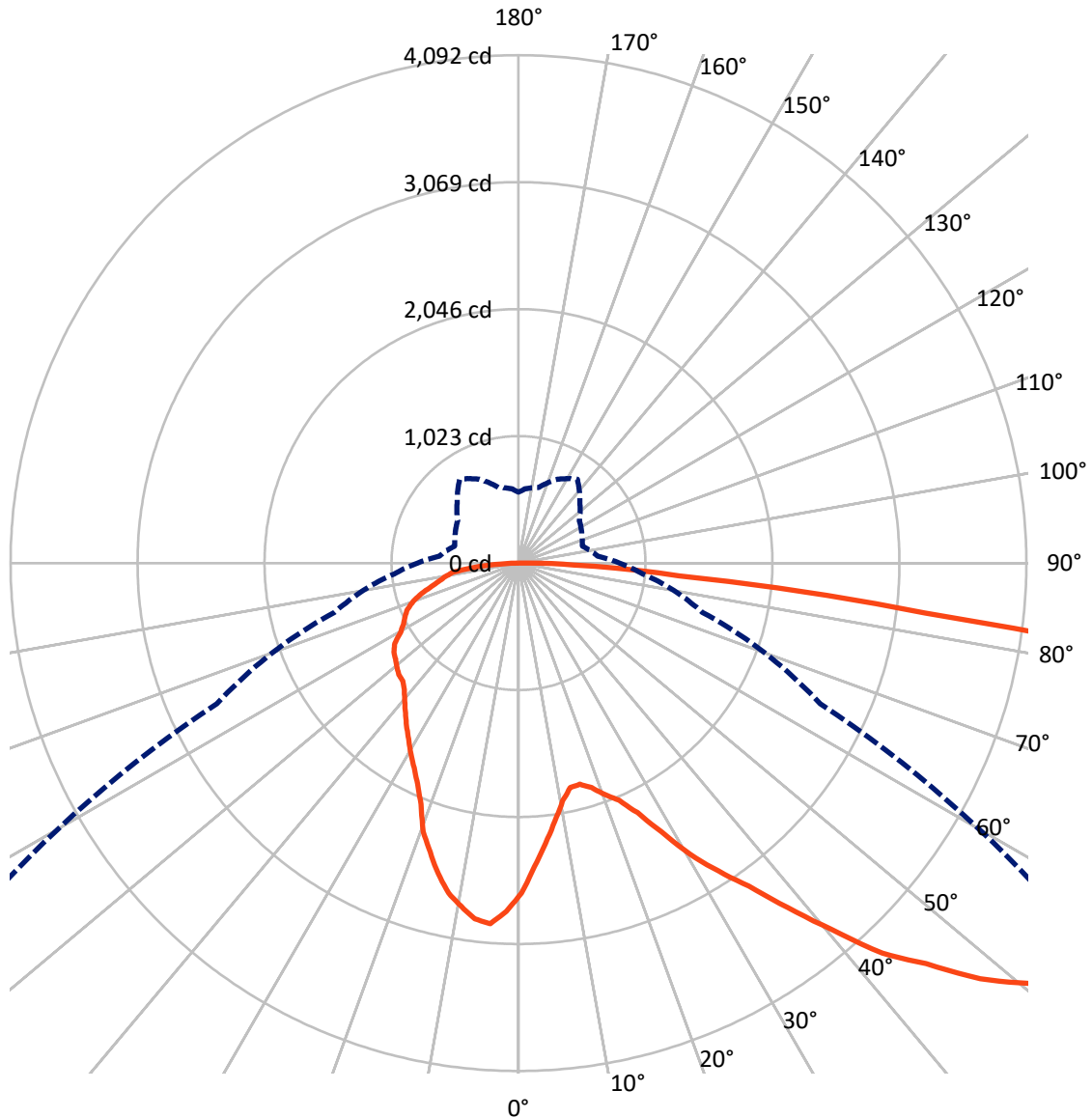
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	4005.4	0.0	4005.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	14537.2	0.0	14537.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	18542.7	0.0	18542.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.4	1.3
10°-20°	686.6	3.7
20°-30°	1130.1	6.1
30°-40°	1690.1	9.1
40°-50°	2505.5	13.5
50°-60°	3610.7	19.5
60°-70°	4607.7	24.8
70°-80°	3585.6	19.3
80°-90°	481.0	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°	18542.7	100.0
0°-180°	18542.7	100.0



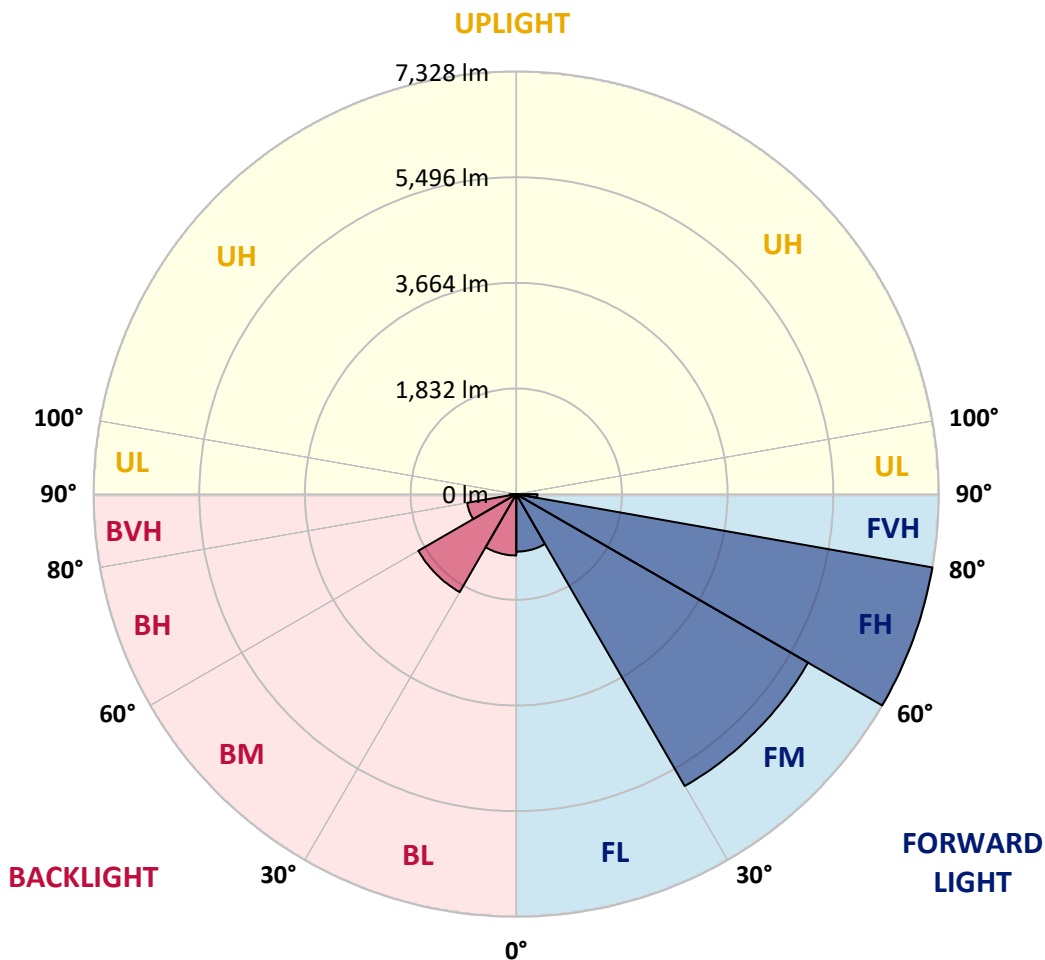
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	997.9	5.4			
FM (30°-60°)	5844.8	31.5			
FH (60°-80°)	7328.4	39.5			G3/7500
FVH (80°-90°)	366.1	2.0			G3/500
BL (0°-30°)	1064.2	5.7	B3/2500		
BM (30°-60°)	1961.5	10.6	B2/2500		
BH (60°-80°)	864.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	114.9	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°	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4
2.5°	2382.0	2389.8	2415.3	2421.2	2448.6	2432.9	2466.3	2525.1	2558.4	2607.4	2666.2
5°	2193.8	2160.4	2176.1	2236.9	2268.2	2276.1	2311.4	2411.4	2474.1	2546.6	2656.4
7.5°	1972.2	1966.3	1997.7	2036.9	2099.6	2105.5	2183.9	2272.2	2401.6	2562.3	2691.7
10°	1821.3	1846.8	1864.4	1905.6	1948.7	1948.7	2048.7	2201.6	2348.6	2503.5	2699.5
12.5°	1813.4	1797.7	1801.7	1823.2	1854.6	1893.8	1987.9	2125.1	2311.4	2491.7	2732.9
15°	1838.9	1844.8	1809.5	1836.9	1848.7	1862.4	1966.3	2121.2	2287.9	2532.9	2789.7
17.5°	1974.2	1940.9	1886.0	1860.5	1901.6	1901.6	1972.2	2093.8	2291.8	2554.5	2872.1
20°	2080.0	2080.0	1989.9	1962.4	1991.8	1985.9	2035.0	2125.1	2311.4	2597.6	2964.2
22.5°	2258.4	2283.9	2134.9	2078.1	2076.1	2091.8	2134.9	2211.4	2366.3	2658.4	3052.4
25°	2515.3	2521.1	2348.6	2289.8	2227.1	2252.6	2260.4	2336.9	2415.3	2729.0	3152.4
27.5°	2801.5	2797.6	2638.8	2491.7	2450.6	2456.5	2413.3	2464.3	2487.8	2750.5	3295.5
30°	3119.1	3083.8	2964.2	2756.4	2723.1	2685.8	2591.7	2589.8	2638.8	2872.1	3493.5
32.5°	3326.9	3281.8	3199.5	3050.5	2958.3	2962.3	2813.3	2811.3	2768.2	3005.4	3666.1
35°	3530.8	3462.2	3440.6	3287.7	3195.5	3205.3	3085.8	3070.1	2991.7	3207.3	3950.3
37.5°	3775.8	3715.1	3748.4	3632.7	3519.0	3472.0	3417.1	3397.5	3295.5	3491.6	4338.5
40°	4046.4	4026.8	4005.2	3948.4	3879.7	3883.7	3824.9	3805.2	3654.3	3834.7	4711.0
42.5°	4411.0	4336.5	4224.8	4262.0	4297.3	4334.6	4315.0	4264.0	4107.2	4183.6	5126.6
45°	4750.2	4652.2	4446.3	4458.1	4603.2	4632.6	4869.8	4863.9	4548.3	4626.7	5599.1
47.5°	4979.6	4934.5	4811.0	4797.2	5005.0	5003.1	5430.5	5430.5	5012.9	5067.8	6106.8
50°	5320.7	5203.1	5150.1	5218.7	5324.6	5397.1	6002.9	6040.2	5469.7	5528.5	6771.4
52.5°	5720.6	5573.6	5440.3	5616.7	5804.9	5852.0	6569.5	6553.8	5820.6	6063.7	7549.7
55°	6051.9	5977.4	5885.3	5987.2	6295.0	6353.8	7138.0	6992.9	6171.5	6506.8	7924.2
57.5°	6438.1	6483.2	6502.8	6477.3	6844.0	6936.1	7786.9	7371.3	6473.4	6804.7	8143.7
60°	7020.4	7047.8	7073.3	7134.1	7522.3	7651.7	8300.6	7845.7	6663.6	6977.3	8161.4
62.5°	7906.5	7800.7	7857.5	8067.3	8379.0	8526.0	9057.3	8179.0	6808.7	7081.2	7585.0
65°	8920.1	8777.0	8718.2	8988.7	9796.4	9678.8	10002.3	8428.0	6598.9	6693.0	6432.3
67.5°	9947.4	9963.0	9812.1	10355.1	11345.2	11345.2	10880.5	8547.6	6030.4	5424.6	4511.0
70°	10762.9	10811.9	10894.3	11947.0	13515.4	13752.6	11968.6	8057.5	4871.7	3611.2	2466.3
72.5°	10751.1	10604.1	11025.6	12964.5	15487.6	15289.6	12196.0	6371.5	3040.7	1768.3	1131.2
73°	10510.0	10386.5	10847.2	12954.7	15568.0	15381.7	12029.4	5873.5	2681.9	1533.1	1005.7
75°	8582.9	8359.4	9143.6	11733.3	14403.5	14546.6	10219.9	3830.7	1470.3	944.9	707.7
77.5°	3913.1	4011.1	5032.5	7871.2	11100.1	11268.7	6718.5	1656.6	805.7	662.6	521.5
80°	1256.7	1319.4	1958.5	3913.1	6957.7	7261.5	3105.4	752.8	574.4	507.8	390.1
82.5°	480.3	478.4	821.4	1627.2	3297.5	3491.6	1135.1	458.7	427.4	374.4	276.4
85°	168.6	176.4	309.8	643.0	1297.8	1358.6	394.1	254.9	296.0	250.9	158.8
87.5°	58.8	60.8	109.8	233.3	447.0	472.5	109.8	101.9	147.0	145.1	80.4
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°	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4	2658.4
2.5°	2685.8	2703.5	2709.4	2779.9	2779.9	2779.9	2807.4	2807.4	2799.5	2779.9	2827.0
5°	2697.6	2729.0	2789.7	2850.5	2866.2	2879.9	2917.2	2885.8	2897.6	2878.0	2895.6
7.5°	2730.9	2774.0	2887.8	2925.0	2899.5	2928.9	2889.7	2868.1	2846.6	2854.4	2827.0
10°	2787.8	2842.7	2895.6	2964.2	2915.2	2885.8	2805.4	2785.8	2717.2	2693.7	2715.2
12.5°	2858.3	2925.0	3015.2	2989.7	2895.6	2811.3	2725.0	2642.7	2601.5	2542.7	2558.4
15°	2928.9	3005.4	3019.1	2976.0	2858.3	2752.5	2595.6	2480.0	2438.8	2385.9	2413.3
17.5°	3005.4	3077.9	3054.4	2942.6	2783.8	2623.1	2444.7	2331.0	2244.7	2211.4	2211.4
20°	3119.1	3154.4	3117.1	2887.8	2693.7	2481.9	2309.4	2180.0	2093.8	2080.0	2058.5
22.5°	3207.3	3264.2	3097.5	2807.4	2562.3	2297.7	2099.6	2050.6	2025.2	2003.6	1976.1
25°	3321.0	3319.1	3062.2	2732.9	2336.9	2078.1	1958.5	1954.6	1942.8	1935.0	1972.2
27.5°	3428.8	3383.7	3021.1	2548.6	2103.6	1911.4	1846.8	1889.9	1907.5	1895.8	1911.4
30°	3599.4	3524.9	2962.3	2352.5	1897.7	1742.8	1754.6	1813.4	1842.8	1860.5	1836.9
32.5°	3779.8	3666.1	2840.7	2148.7	1715.4	1637.0	1664.4	1725.2	1760.5	1780.1	1801.7
35°	4040.5	3775.8	2717.2	1882.0	1584.0	1572.3	1588.0	1621.3	1672.3	1686.0	1691.9
37.5°	4362.0	3942.5	2550.6	1668.3	1482.1	1495.8	1511.5	1523.3	1525.2	1550.7	1540.9
40°	4683.5	4083.6	2307.5	1464.5	1376.2	1450.7	1442.9	1421.3	1403.7	1380.2	1374.3
42.5°	4965.8	4207.1	2036.9	1291.9	1282.1	1403.7	1378.2	1323.3	1282.1	1264.5	1235.1
45°	5283.4	4381.6	1764.4	1184.1	1209.6	1346.8	1339.0	1254.7	1201.8	1139.0	1131.2
47.5°	5695.1	4563.9	1503.7	1072.4	1141.0	1325.3	1329.2	1221.4	1144.9	1060.6	1048.8
50°	6222.5	4826.6	1305.7	1025.3	1099.8	1293.9	1299.8	1176.3	1076.3	990.0	982.2
52.5°	6728.3	5095.2	1141.0	952.8	1072.4	1256.7	1270.4	1135.1	1019.4	911.6	917.5
55°	6983.1	4997.2	999.8	899.8	1009.6	1195.9	1246.9	1105.7	933.2	858.7	856.7
57.5°	7040.0	4756.1	888.1	845.0	956.7	1131.2	1207.6	1017.5	894.0	831.2	823.4
60°	6853.8	4334.6	799.9	786.1	890.0	1064.5	1117.5	970.4	854.8	803.8	792.0
62.5°	6395.0	3897.4	739.1	758.7	833.2	992.0	1060.6	937.1	817.5	782.2	756.7
65°	5244.2	3205.3	690.1	705.8	774.4	921.4	1025.3	899.8	784.2	750.9	748.9
67.5°	3632.7	2209.4	650.9	680.3	727.3	870.4	990.0	858.7	741.1	729.3	713.6
70°	1860.5	1178.2	599.9	623.4	676.4	805.7	927.3	815.6	696.0	694.0	674.4
72.5°	943.0	690.1	541.1	576.4	613.6	721.4	848.9	758.7	639.1	617.5	586.2
73°	815.6	639.1	531.3	562.7	597.9	697.9	825.4	745.0	631.3	599.9	570.5
75°	594.0	503.8	476.4	507.8	535.2	629.3	746.9	682.2	580.3	547.0	519.5
77.5°	445.0	388.2	396.0	431.3	454.8	543.0	664.6	617.5	525.4	480.3	468.5
80°	327.4	296.0	327.4	360.7	378.4	478.4	605.8	535.2	443.1	392.1	382.3
82.5°	233.3	215.7	252.9	274.5	282.3	396.0	545.0	427.4	335.2	268.6	247.0
85°	133.3	131.4	170.6	168.6	174.5	231.3	358.8	284.3	215.7	164.7	160.8
87.5°	58.8	64.7	86.3	68.6	72.5	109.8	152.9	105.9	88.2	49.0	37.2
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)