

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: P478116

Luminaire Tested: **IFLD-S-SA2E-735-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478116
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-735-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

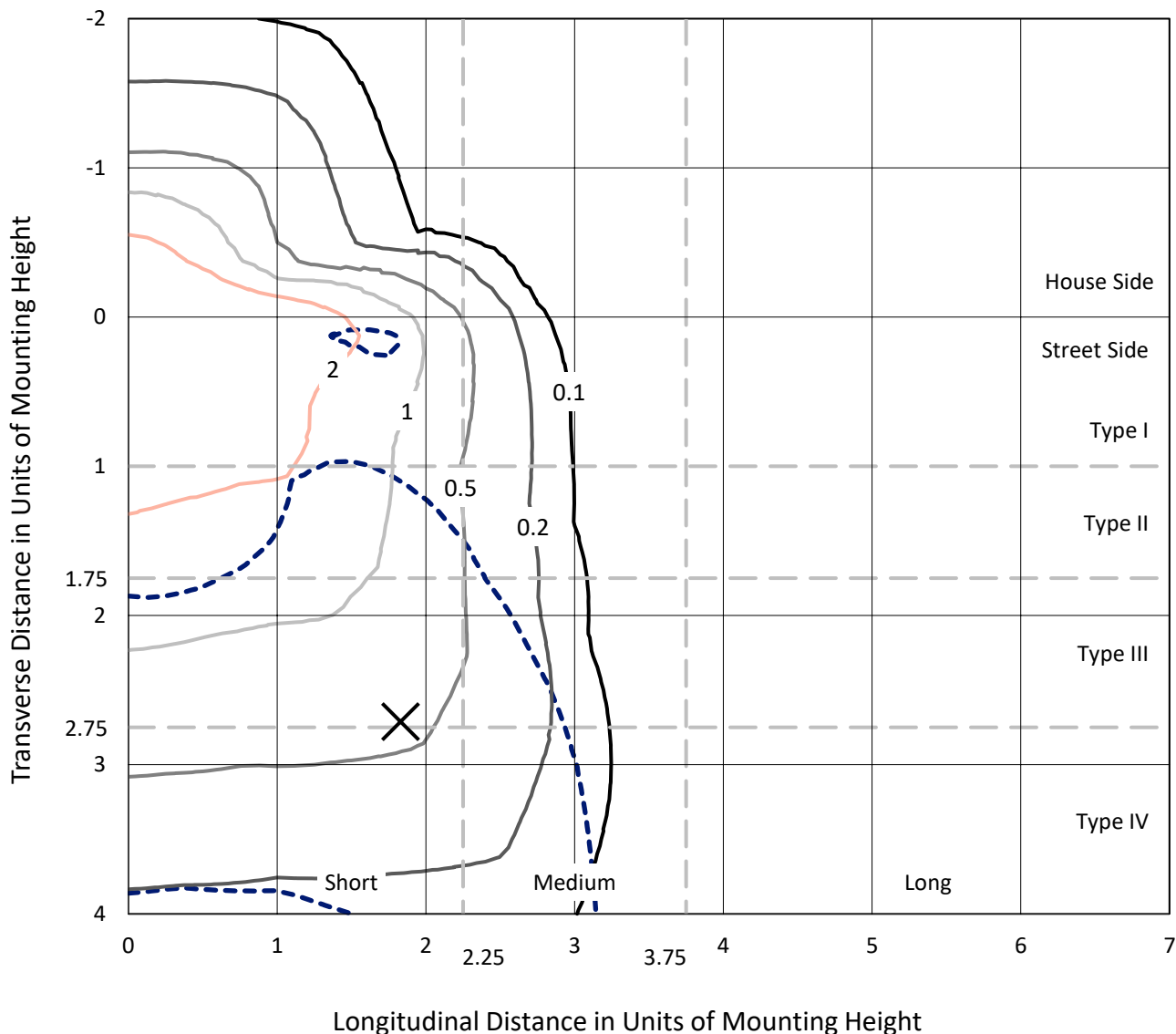
Lumens per Lamp: N/A
Luminaire Lumens: 18288.6 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

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

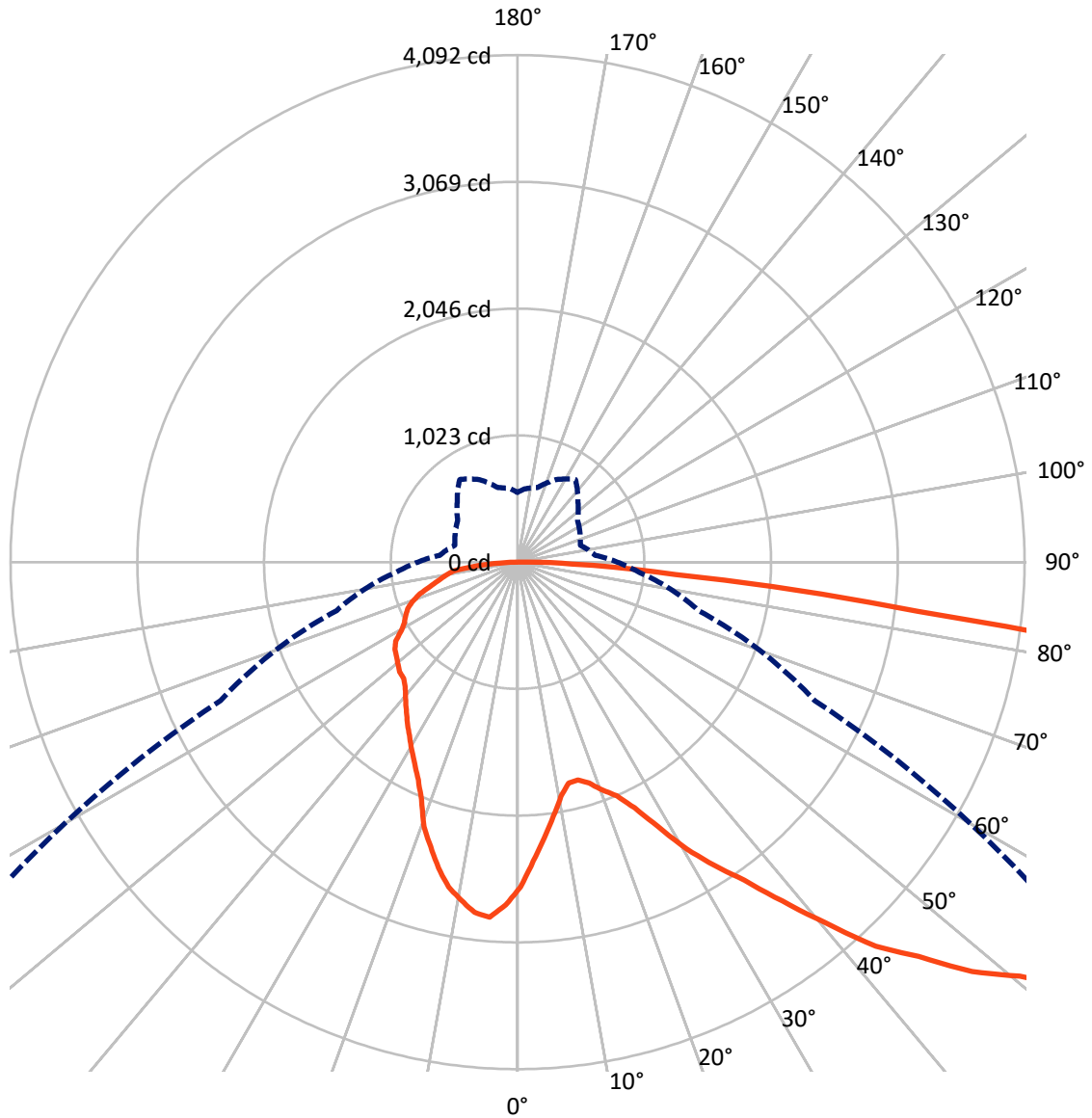
× Max cd
 - - - 1/2 Max cd



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	3950.6	0.0	3950.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	14338.0	0.0	14338.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	18288.6	0.0	18288.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.0	1.3
10°-20°	677.2	3.7
20°-30°	1114.6	6.1
30°-40°	1666.9	9.1
40°-50°	2471.2	13.5
50°-60°	3561.2	19.5
60°-70°	4544.6	24.8
70°-80°	3536.4	19.3
80°-90°	474.4	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°	18288.6	100.0
0°-180°	18288.6	100.0



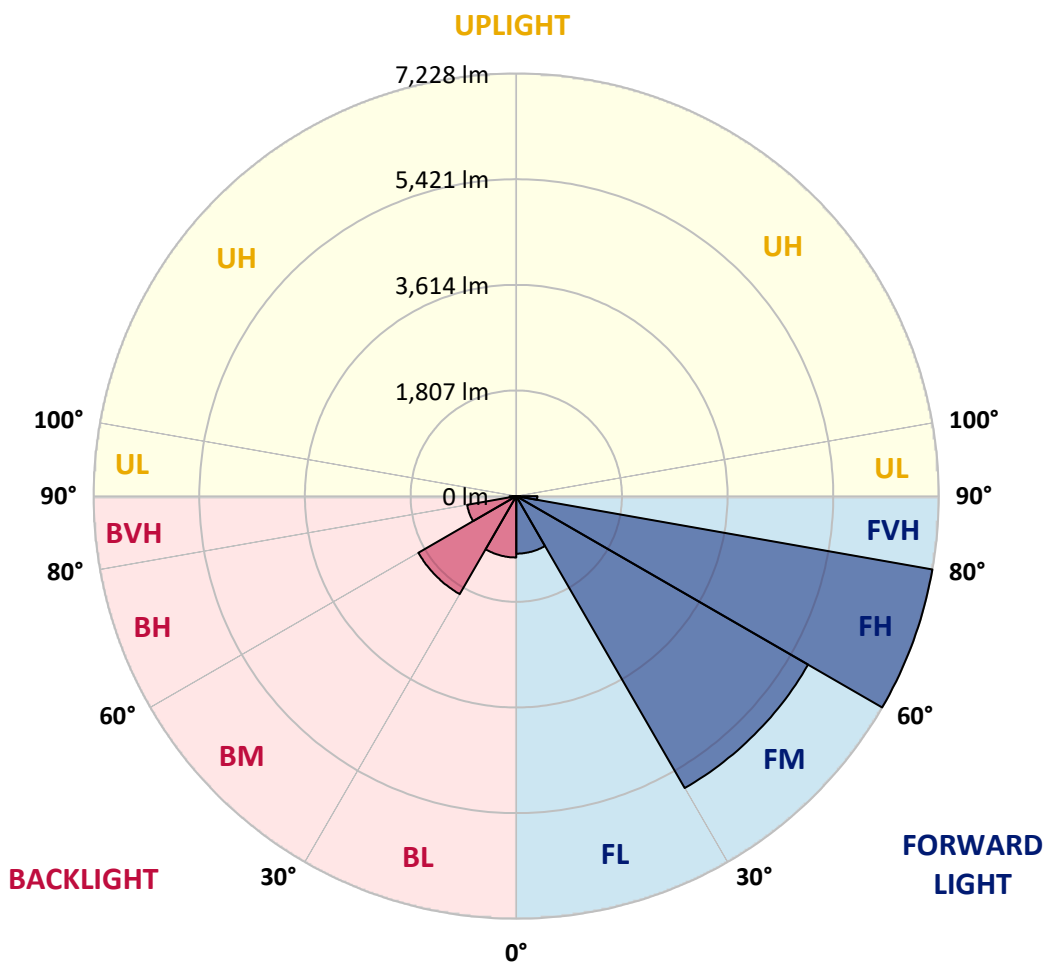
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	984.2	5.4			
FM (30°-60°)	5764.7	31.5			
FH (60°-80°)	7228.0	39.5			G3/7500
FVH (80°-90°)	361.1	2.0			G3/500
BL (0°-30°)	1049.6	5.7	B3/2500		
BM (30°-60°)	1934.6	10.6	B2/2500		
BH (60°-80°)	853.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	113.3	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°	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0
2.5°	2349.3	2357.1	2382.2	2388.0	2415.1	2399.6	2432.5	2490.5	2523.3	2571.7	2629.7
5°	2163.7	2130.8	2146.3	2206.2	2237.2	2244.9	2279.7	2378.3	2440.2	2511.7	2620.0
7.5°	1945.2	1939.4	1970.3	2009.0	2070.9	2076.7	2154.0	2241.0	2368.7	2527.2	2654.8
10°	1796.3	1821.4	1838.9	1879.5	1922.0	1922.0	2020.6	2171.4	2316.5	2469.2	2662.6
12.5°	1788.6	1773.1	1777.0	1798.2	1829.2	1867.9	1960.7	2096.0	2279.7	2457.6	2695.4
15°	1813.7	1819.5	1784.7	1811.8	1823.4	1836.9	1939.4	2092.2	2256.5	2498.2	2751.5
17.5°	1947.1	1914.3	1860.1	1835.0	1875.6	1875.6	1945.2	2065.1	2260.4	2519.5	2832.7
20°	2051.5	2051.5	1962.6	1935.5	1964.5	1958.7	2007.1	2096.0	2279.7	2562.0	2923.6
22.5°	2227.5	2252.6	2105.7	2049.6	2047.7	2063.1	2105.7	2181.1	2333.9	2622.0	3010.6
25°	2480.8	2486.6	2316.5	2258.4	2196.6	2221.7	2229.4	2304.8	2382.2	2691.6	3109.2
27.5°	2763.1	2759.2	2602.6	2457.6	2417.0	2422.8	2380.3	2430.5	2453.7	2712.8	3250.4
30°	3076.4	3041.6	2923.6	2718.6	2685.8	2649.0	2556.2	2554.3	2602.6	2832.7	3445.7
32.5°	3281.3	3236.8	3155.6	3008.7	2917.8	2921.7	2774.7	2772.8	2730.2	2964.2	3615.8
35°	3482.4	3414.7	3393.5	3242.6	3151.8	3161.4	3043.5	3028.0	2950.7	3163.4	3896.2
37.5°	3724.1	3664.2	3697.0	3583.0	3470.8	3424.4	3370.3	3350.9	3250.4	3443.7	4279.1
40°	3990.9	3971.6	3950.3	3894.3	3826.6	3830.5	3772.5	3753.1	3604.2	3782.1	4646.4
42.5°	4350.6	4277.1	4166.9	4203.6	4238.4	4275.2	4255.9	4205.6	4050.9	4126.3	5056.4
45°	4685.1	4588.4	4385.4	4397.0	4540.1	4569.1	4803.1	4797.3	4485.9	4563.3	5522.4
47.5°	4911.3	4866.9	4745.1	4731.5	4936.5	4934.5	5356.1	5356.1	4944.2	4998.4	6023.2
50°	5247.8	5131.8	5079.6	5147.2	5251.7	5323.2	5920.7	5957.4	5394.7	5452.7	6678.6
52.5°	5642.2	5497.2	5365.7	5539.8	5725.4	5771.8	6479.5	6464.0	5740.9	5980.6	7446.3
55°	5969.0	5895.5	5804.7	5905.2	6208.8	6266.8	7040.2	6897.1	6087.0	6417.6	7815.6
57.5°	6349.9	6394.4	6413.7	6388.6	6750.2	6841.1	7680.3	7270.3	6384.7	6711.5	8032.2
60°	6924.2	6951.3	6976.4	7036.4	7419.2	7546.8	8186.9	7738.3	6572.3	6881.7	8049.6
62.5°	7798.2	7693.8	7749.9	7956.8	8264.2	8409.2	8933.2	8067.0	6715.4	6984.2	7481.1
65°	8797.9	8656.7	8598.7	8865.5	9662.2	9546.2	9865.2	8312.5	6508.5	6601.3	6344.1
67.5°	9811.1	9826.5	9677.7	10213.3	11189.7	11189.7	10731.5	8430.5	5947.7	5350.3	4449.2
70°	10615.5	10663.8	10745.0	11783.3	13330.2	13564.2	11804.6	7947.1	4805.0	3561.7	2432.5
72.5°	10603.9	10458.8	10874.6	12786.9	15275.4	15080.1	12028.9	6284.2	2999.0	1744.1	1115.7
73°	10366.0	10244.2	10698.6	12777.2	15354.7	15171.0	11864.6	5793.1	2645.2	1512.1	991.9
75°	8465.3	8244.9	9018.3	11572.6	14206.1	14347.3	10079.8	3778.3	1450.2	932.0	698.0
77.5°	3859.5	3956.1	4963.5	7763.4	10948.0	11114.3	6626.4	1633.9	794.7	653.6	514.3
80°	1239.4	1301.3	1931.7	3859.5	6862.3	7162.0	3062.8	742.5	566.5	500.8	384.8
82.5°	473.7	471.8	810.2	1604.9	3252.3	3443.7	1119.6	452.5	421.5	369.3	272.6
85°	166.3	174.0	305.5	634.2	1280.0	1340.0	388.7	251.4	292.0	247.5	156.6
87.5°	58.0	59.9	108.3	230.1	440.9	466.0	108.3	100.5	145.0	143.1	79.3
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°	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0
2.5°	2649.0	2666.4	2672.2	2741.8	2741.8	2741.8	2768.9	2768.9	2761.2	2741.8	2788.2
5°	2660.6	2691.6	2751.5	2811.5	2826.9	2840.5	2877.2	2846.3	2857.9	2838.5	2855.9
7.5°	2693.5	2736.0	2848.2	2884.9	2859.8	2888.8	2850.1	2828.9	2807.6	2815.3	2788.2
10°	2749.6	2803.7	2855.9	2923.6	2875.3	2846.3	2767.0	2747.6	2680.0	2656.8	2678.0
12.5°	2819.2	2884.9	2973.9	2948.7	2855.9	2772.8	2687.7	2606.5	2565.9	2507.9	2523.3
15°	2888.8	2964.2	2977.7	2935.2	2819.2	2714.8	2560.1	2446.0	2405.4	2353.2	2380.3
17.5°	2964.2	3035.7	3012.5	2902.3	2745.7	2587.2	2411.2	2299.0	2214.0	2181.1	2181.1
20°	3076.4	3111.2	3074.4	2848.2	2656.8	2447.9	2277.8	2150.2	2065.1	2051.5	2030.3
22.5°	3163.4	3219.4	3055.1	2768.9	2527.2	2266.2	2070.9	2022.5	1997.4	1976.1	1949.1
25°	3275.5	3273.6	3020.3	2695.4	2304.8	2049.6	1931.7	1927.8	1916.2	1908.5	1945.2
27.5°	3381.9	3337.4	2979.7	2513.7	2074.8	1885.3	1821.4	1864.0	1881.4	1869.8	1885.3
30°	3550.1	3476.6	2921.7	2320.3	1871.7	1719.0	1730.6	1788.6	1817.6	1835.0	1811.8
32.5°	3728.0	3615.8	2801.8	2119.2	1691.9	1614.6	1641.6	1701.6	1736.4	1755.7	1777.0
35°	3985.1	3724.1	2680.0	1856.3	1562.3	1550.7	1566.2	1599.1	1649.4	1662.9	1668.7
37.5°	4302.3	3888.5	2515.6	1645.5	1461.8	1475.3	1490.8	1502.4	1504.3	1529.5	1519.8
40°	4619.4	4027.7	2275.8	1444.4	1357.4	1430.9	1423.1	1401.9	1384.5	1361.3	1355.5
42.5°	4897.8	4149.5	2009.0	1274.2	1264.6	1384.5	1359.3	1305.2	1264.6	1247.2	1218.2
45°	5211.0	4321.6	1740.2	1167.9	1193.0	1328.4	1320.6	1237.5	1185.3	1123.4	1115.7
47.5°	5617.1	4501.4	1483.1	1057.7	1125.4	1307.1	1311.0	1204.6	1129.2	1046.1	1034.5
50°	6137.2	4760.5	1287.8	1011.3	1084.7	1276.2	1282.0	1160.2	1061.5	976.5	968.7
52.5°	6636.1	5025.4	1125.4	939.7	1057.7	1239.4	1253.0	1119.6	1005.5	899.1	904.9
55°	6887.5	4928.7	986.1	887.5	995.8	1179.5	1229.8	1090.5	920.4	846.9	845.0
57.5°	6943.6	4690.9	875.9	833.4	943.6	1115.7	1191.1	1003.5	881.7	819.8	812.1
60°	6759.9	4275.2	788.9	775.4	877.9	1049.9	1102.2	957.1	843.0	792.8	781.2
62.5°	6307.4	3844.0	729.0	748.3	821.8	978.4	1046.1	924.3	806.3	771.5	746.4
65°	5172.4	3161.4	680.6	696.1	763.8	908.8	1011.3	887.5	773.4	740.6	738.6
67.5°	3583.0	2179.2	642.0	671.0	717.4	858.5	976.5	846.9	730.9	719.3	703.8
70°	1835.0	1162.1	591.7	614.9	667.1	794.7	914.6	804.4	686.4	684.5	665.2
72.5°	930.1	680.6	533.7	568.5	605.2	711.6	837.2	748.3	630.4	609.1	578.1
73°	804.4	630.4	524.0	554.9	589.7	688.4	814.0	734.8	622.6	591.7	562.7
75°	585.9	496.9	469.9	500.8	527.9	620.7	736.7	672.9	572.3	539.5	512.4
77.5°	438.9	382.9	390.6	425.4	448.6	535.6	655.5	609.1	518.2	473.7	462.1
80°	322.9	292.0	322.9	355.8	373.2	471.8	597.5	527.9	437.0	386.7	377.1
82.5°	230.1	212.7	249.4	270.7	278.4	390.6	537.5	421.5	330.6	264.9	243.6
85°	131.5	129.6	168.2	166.3	172.1	228.2	353.8	280.4	212.7	162.4	158.6
87.5°	58.0	63.8	85.1	67.7	71.5	108.3	150.8	104.4	87.0	48.3	36.7
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)