

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: P478315

Luminaire Tested: **IFLD-S-SA3D-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478315
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

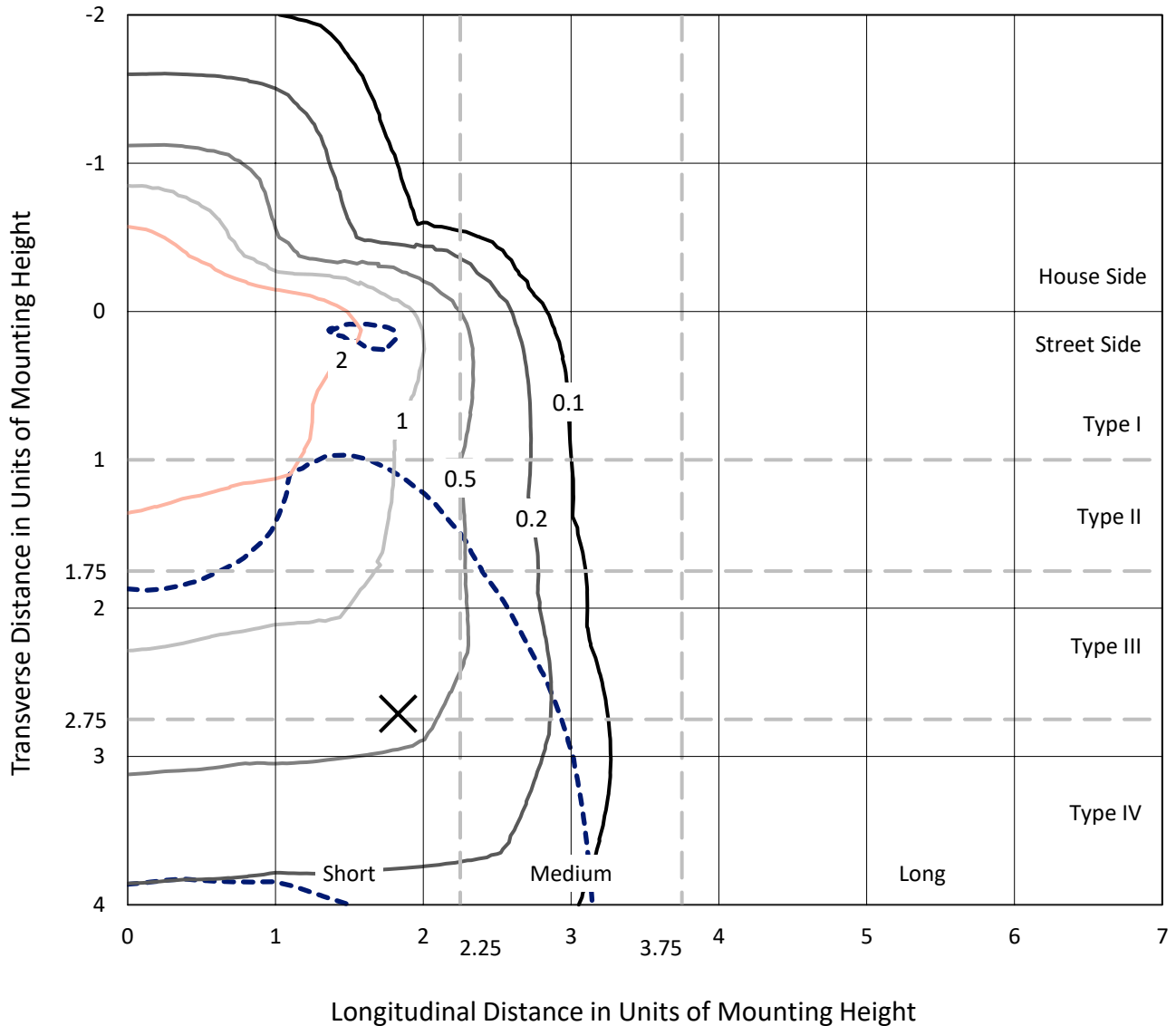
Lumens per Lamp: N/A
Luminaire Lumens: 18973.3 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1
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

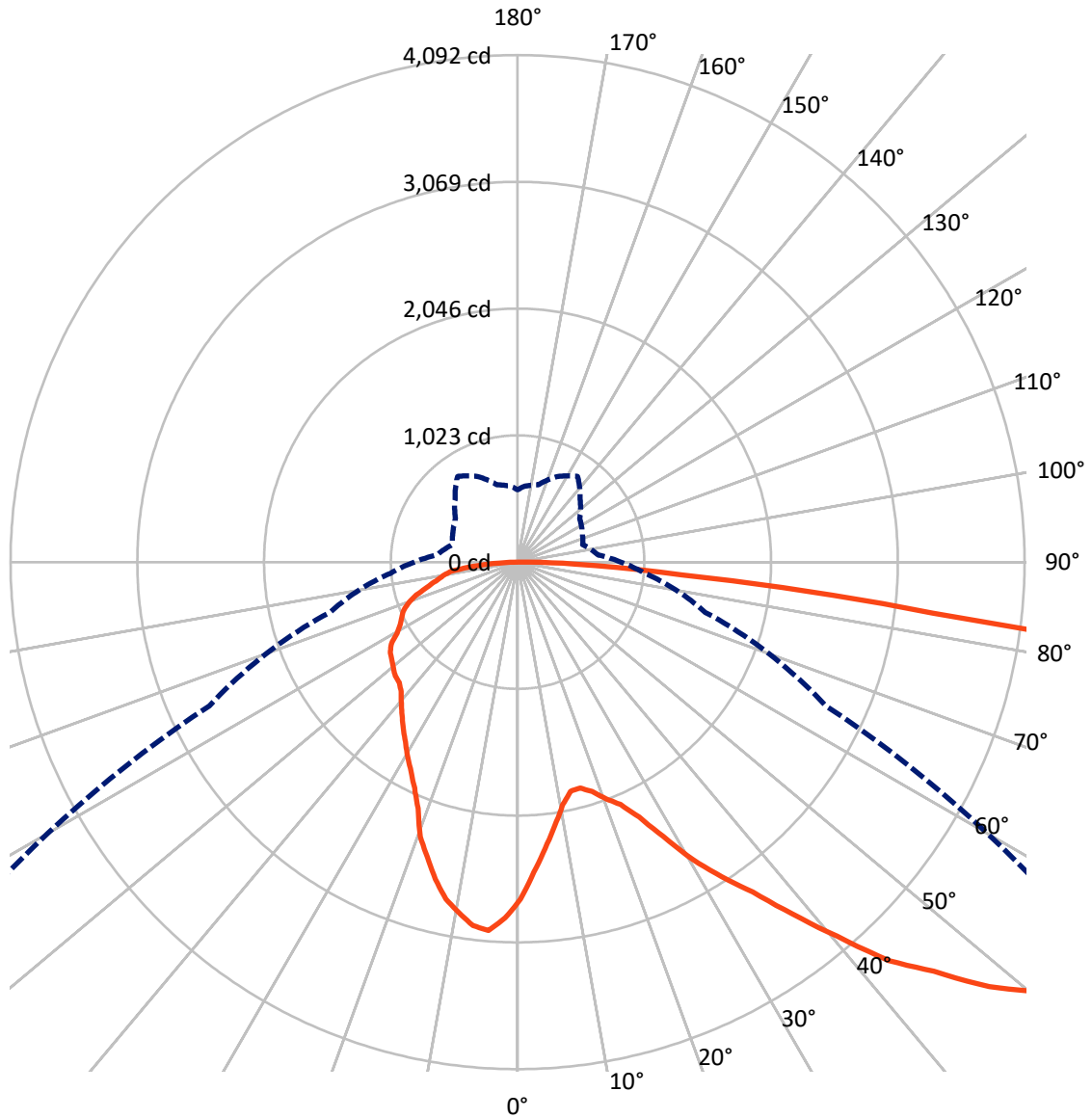
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	4098.5	0.0	4098.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	14874.9	0.0	14874.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	18973.3	0.0	18973.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.1	1.3
10°-20°	702.6	3.7
20°-30°	1156.4	6.1
30°-40°	1729.3	9.1
40°-50°	2563.7	13.5
50°-60°	3694.5	19.5
60°-70°	4714.7	24.8
70°-80°	3668.8	19.3
80°-90°	492.2	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°	18973.3	100.0
0°-180°	18973.3	100.0

Coefficient of Utilization



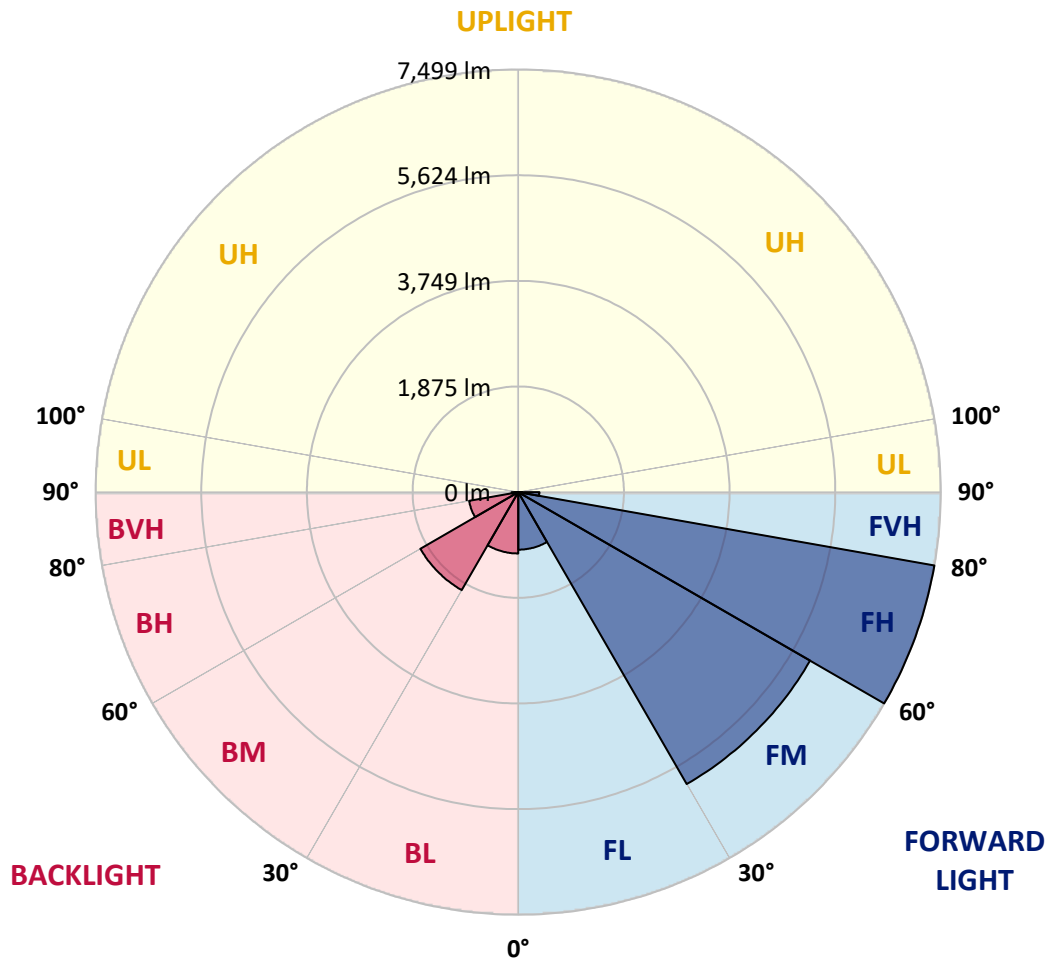
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1021.1	5.4			
FM (30°-60°)	5980.5	31.5			
FH (60°-80°)	7498.6	39.5			G3/7500
FVH (80°-90°)	374.6	2.0			G3/500
BL (0°-30°)	1088.9	5.7	B3/2500		
BM (30°-60°)	2007.0	10.6	B2/2500		
BH (60°-80°)	885.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	117.6	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°	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1
2.5°	2437.3	2445.3	2471.4	2477.4	2505.5	2489.4	2523.5	2583.7	2617.8	2668.0	2728.1
5°	2244.7	2210.6	2226.7	2288.8	2320.9	2329.0	2365.1	2467.4	2531.6	2605.8	2718.1
7.5°	2018.0	2012.0	2044.1	2084.2	2148.4	2154.4	2234.7	2324.9	2457.3	2621.8	2754.2
10°	1863.6	1889.6	1907.7	1949.8	1994.0	1994.0	2096.3	2252.7	2403.2	2561.7	2762.2
12.5°	1855.5	1839.5	1843.5	1865.6	1897.7	1937.8	2034.1	2174.5	2365.1	2549.6	2796.4
15°	1881.6	1887.6	1851.5	1879.6	1891.6	1905.7	2012.0	2170.5	2341.0	2591.7	2854.5
17.5°	2020.0	1985.9	1929.8	1903.7	1945.8	1945.8	2018.0	2142.4	2345.0	2613.8	2938.8
20°	2128.4	2128.4	2036.1	2008.0	2038.1	2032.1	2082.2	2174.5	2365.1	2657.9	3033.1
22.5°	2310.9	2337.0	2184.5	2126.4	2124.3	2140.4	2184.5	2262.8	2421.2	2720.1	3123.3
25°	2573.7	2579.7	2403.2	2343.0	2278.8	2304.9	2312.9	2391.1	2471.4	2792.3	3225.6
27.5°	2866.6	2862.5	2700.1	2549.6	2507.5	2513.5	2469.4	2521.5	2545.6	2814.4	3372.1
30°	3191.5	3155.4	3033.1	2820.4	2786.3	2748.2	2651.9	2649.9	2700.1	2938.8	3574.7
32.5°	3404.2	3358.0	3273.8	3121.3	3027.0	3031.1	2878.6	2876.6	2832.5	3075.2	3751.2
35°	3612.8	3542.6	3520.5	3364.0	3269.8	3279.8	3157.4	3141.4	3061.1	3281.8	4042.1
37.5°	3863.5	3801.4	3835.5	3717.1	3600.8	3552.6	3496.4	3476.4	3372.1	3572.7	4439.3
40°	4140.4	4120.3	4098.2	4040.1	3969.9	3973.9	3913.7	3893.6	3739.2	3923.7	4820.4
42.5°	4513.5	4437.3	4322.9	4361.0	4397.1	4435.2	4415.2	4363.0	4202.6	4280.8	5245.7
45°	4860.5	4760.2	4549.6	4561.6	4710.1	4740.2	4982.9	4976.9	4653.9	4734.1	5729.1
47.5°	5095.2	5049.1	4922.7	4908.7	5121.3	5119.3	5556.6	5556.6	5129.3	5185.5	6248.7
50°	5444.3	5323.9	5269.7	5339.9	5448.3	5522.5	6142.3	6180.5	5596.7	5656.9	6928.7
52.5°	5853.5	5703.0	5566.6	5747.2	5939.7	5987.9	6722.1	6706.0	5955.8	6204.5	7725.1
55°	6192.5	6116.3	6022.0	6126.3	6441.2	6501.4	7303.8	7155.4	6314.9	6657.9	8108.2
57.5°	6587.7	6633.8	6653.9	6627.8	7002.9	7097.2	7967.8	7542.5	6623.8	6962.8	8332.9
60°	7183.5	7211.5	7237.6	7299.8	7697.0	7829.4	8493.4	8028.0	6818.4	7139.3	8350.9
62.5°	8090.2	7981.8	8040.0	8254.7	8573.6	8724.1	9267.7	8369.0	6966.8	7245.6	7761.2
65°	9127.3	8980.8	8920.6	9197.5	10023.9	9903.6	10234.6	8623.8	6752.2	6848.5	6581.7
67.5°	10178.4	10194.4	10040.0	10595.6	11608.7	11608.7	11133.3	8746.1	6170.4	5550.6	4615.8
70°	11012.9	11063.0	11147.3	12224.5	13829.3	14072.0	12246.6	8244.6	4984.9	3695.0	2523.5
72.5°	11000.9	10850.4	11281.7	13265.6	15847.3	15644.7	12479.3	6519.5	3111.3	1809.4	1157.5
73°	10754.1	10627.7	11099.1	13255.6	15929.6	15739.0	12308.8	6009.9	2744.2	1568.7	1029.1
75°	8782.2	8553.5	9355.9	12005.9	14738.0	14884.5	10457.2	3919.7	1504.5	966.9	724.2
77.5°	4004.0	4104.3	5149.4	8054.1	11357.9	11530.4	6874.5	1695.1	824.5	678.0	533.6
80°	1285.8	1350.0	2004.0	4004.0	7119.3	7430.2	3177.5	770.3	587.8	519.6	399.2
82.5°	491.5	489.5	840.5	1665.0	3374.1	3572.7	1161.5	469.4	437.3	383.1	282.8
85°	172.5	180.5	316.9	658.0	1328.0	1390.2	403.2	260.8	302.9	256.8	162.5
87.5°	60.2	62.2	112.3	238.7	457.4	483.4	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°	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1
2.5°	2748.2	2766.3	2772.3	2844.5	2844.5	2844.5	2872.6	2872.6	2864.6	2844.5	2892.6
5°	2760.2	2792.3	2854.5	2916.7	2932.8	2946.8	2984.9	2952.8	2964.9	2944.8	2962.8
7.5°	2794.3	2838.5	2954.8	2992.9	2966.9	2997.0	2956.8	2934.8	2912.7	2920.7	2892.6
10°	2852.5	2908.7	2962.8	3033.1	2982.9	2952.8	2870.6	2850.5	2780.3	2756.2	2778.3
12.5°	2924.7	2992.9	3085.2	3059.1	2962.8	2876.6	2788.3	2704.1	2662.0	2601.8	2617.8
15°	2997.0	3075.2	3089.2	3045.1	2924.7	2816.4	2655.9	2537.6	2495.5	2441.3	2469.4
17.5°	3075.2	3149.4	3125.3	3011.0	2848.5	2684.0	2501.5	2385.1	2296.9	2262.8	2262.8
20°	3191.5	3227.6	3189.5	2954.8	2756.2	2539.6	2363.1	2230.7	2142.4	2128.4	2106.3
22.5°	3281.8	3340.0	3169.5	2872.6	2621.8	2351.0	2148.4	2098.3	2072.2	2050.1	2022.0
25°	3398.1	3396.1	3133.4	2796.4	2391.1	2126.4	2004.0	2000.0	1987.9	1979.9	2018.0
27.5°	3508.5	3462.3	3091.2	2607.8	2152.4	1955.8	1889.6	1933.8	1951.8	1939.8	1955.8
30°	3683.0	3606.8	3031.1	2407.2	1941.8	1783.3	1795.4	1855.5	1885.6	1903.7	1879.6
32.5°	3867.6	3751.2	2906.7	2198.6	1755.2	1675.0	1703.1	1765.3	1801.4	1821.4	1843.5
35°	4134.3	3863.5	2780.3	1925.8	1620.8	1608.8	1624.9	1659.0	1711.1	1725.2	1731.2
37.5°	4463.3	4034.0	2609.8	1707.1	1516.5	1530.6	1546.6	1558.7	1560.7	1586.7	1576.7
40°	4792.3	4178.5	2361.1	1498.5	1408.2	1484.4	1476.4	1454.3	1436.3	1412.2	1406.2
42.5°	5081.2	4304.9	2084.2	1321.9	1311.9	1436.3	1410.2	1354.0	1311.9	1293.9	1263.8
45°	5406.1	4483.4	1805.4	1211.6	1237.7	1378.1	1370.1	1283.8	1229.7	1165.5	1157.5
47.5°	5827.4	4669.9	1538.6	1097.3	1167.5	1356.1	1360.1	1249.7	1171.5	1085.2	1073.2
50°	6367.0	4938.8	1336.0	1049.1	1125.4	1324.0	1330.0	1203.6	1101.3	1013.0	1005.0
52.5°	6884.6	5213.6	1167.5	974.9	1097.3	1285.8	1299.9	1161.5	1043.1	932.8	938.8
55°	7145.3	5113.3	1023.1	920.7	1033.1	1223.7	1275.8	1131.4	954.9	878.6	876.6
57.5°	7203.5	4866.5	908.7	864.6	978.9	1157.5	1235.7	1041.1	914.7	850.5	842.5
60°	7012.9	4435.2	818.4	804.4	910.7	1089.3	1143.4	993.0	874.6	822.5	810.4
62.5°	6543.5	3987.9	756.3	776.3	852.5	1015.0	1085.2	958.9	836.5	800.4	774.3
65°	5366.0	3279.8	706.1	722.2	792.4	942.8	1049.1	920.7	802.4	768.3	766.3
67.5°	3717.1	2260.8	666.0	696.1	744.2	890.7	1013.0	878.6	758.3	746.2	730.2
70°	1903.7	1205.6	613.8	637.9	692.1	824.5	948.8	834.5	712.1	710.1	690.1
72.5°	964.9	706.1	553.7	589.8	627.9	738.2	868.6	776.3	654.0	631.9	599.8
73°	834.5	654.0	543.6	575.7	611.8	714.1	844.5	762.3	645.9	613.8	583.7
75°	607.8	515.5	487.5	519.6	547.6	643.9	764.3	698.1	593.8	559.7	531.6
77.5°	455.4	397.2	405.2	441.3	465.4	555.7	680.0	631.9	537.6	491.5	479.4
80°	335.0	302.9	335.0	369.1	387.2	489.5	619.9	547.6	453.4	401.2	391.2
82.5°	238.7	220.7	258.8	280.8	288.9	405.2	557.7	437.3	343.0	274.8	252.8
85°	136.4	134.4	174.5	172.5	178.5	236.7	367.1	290.9	220.7	168.5	164.5
87.5°	60.2	66.2	88.3	70.2	74.2	112.3	156.5	108.3	90.3	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)