

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: P478276

Luminaire Tested: **IFLD-S-SA3D-827-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478276
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

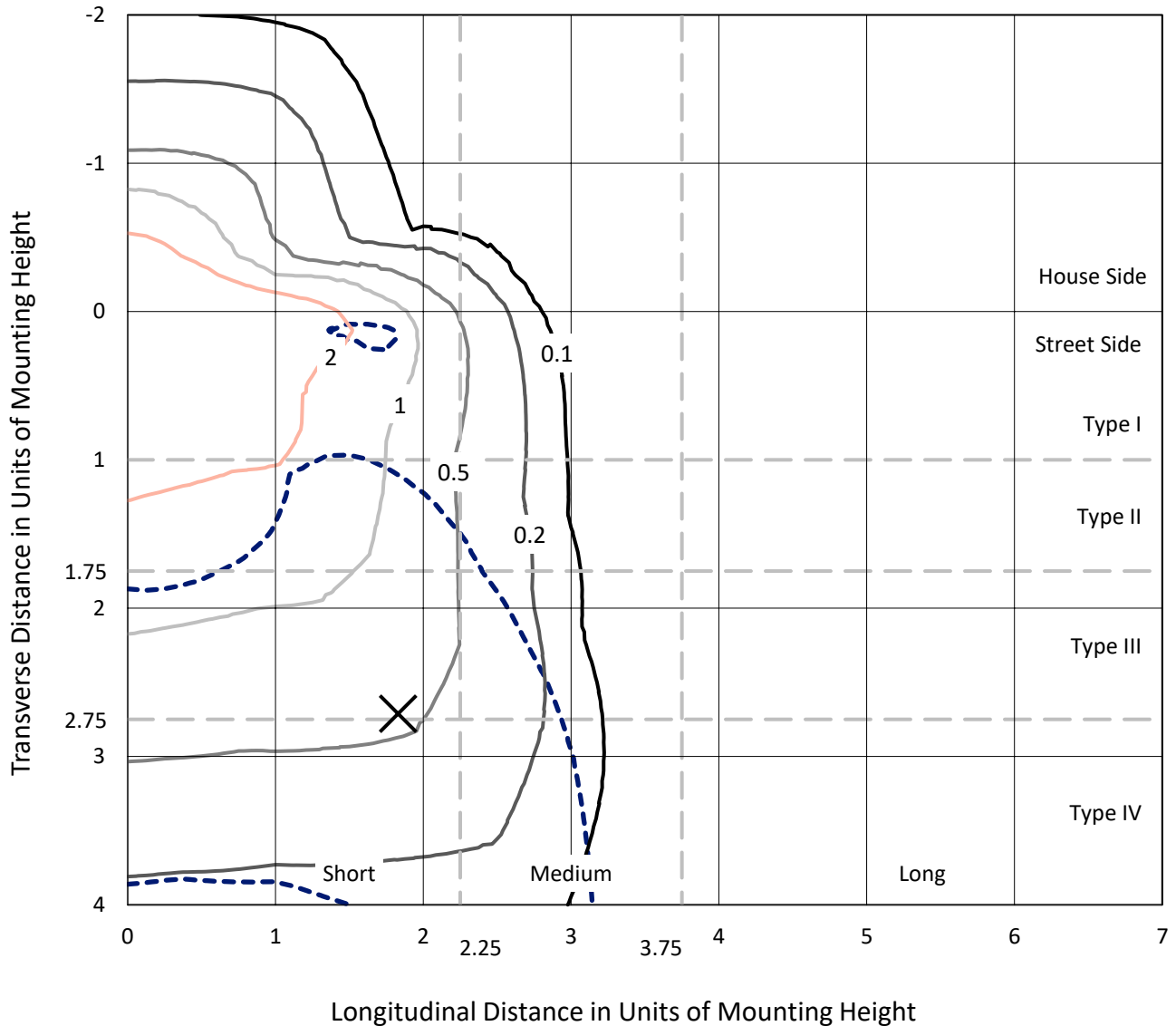
Lumens per Lamp: N/A
Luminaire Lumens: 17552.6 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

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

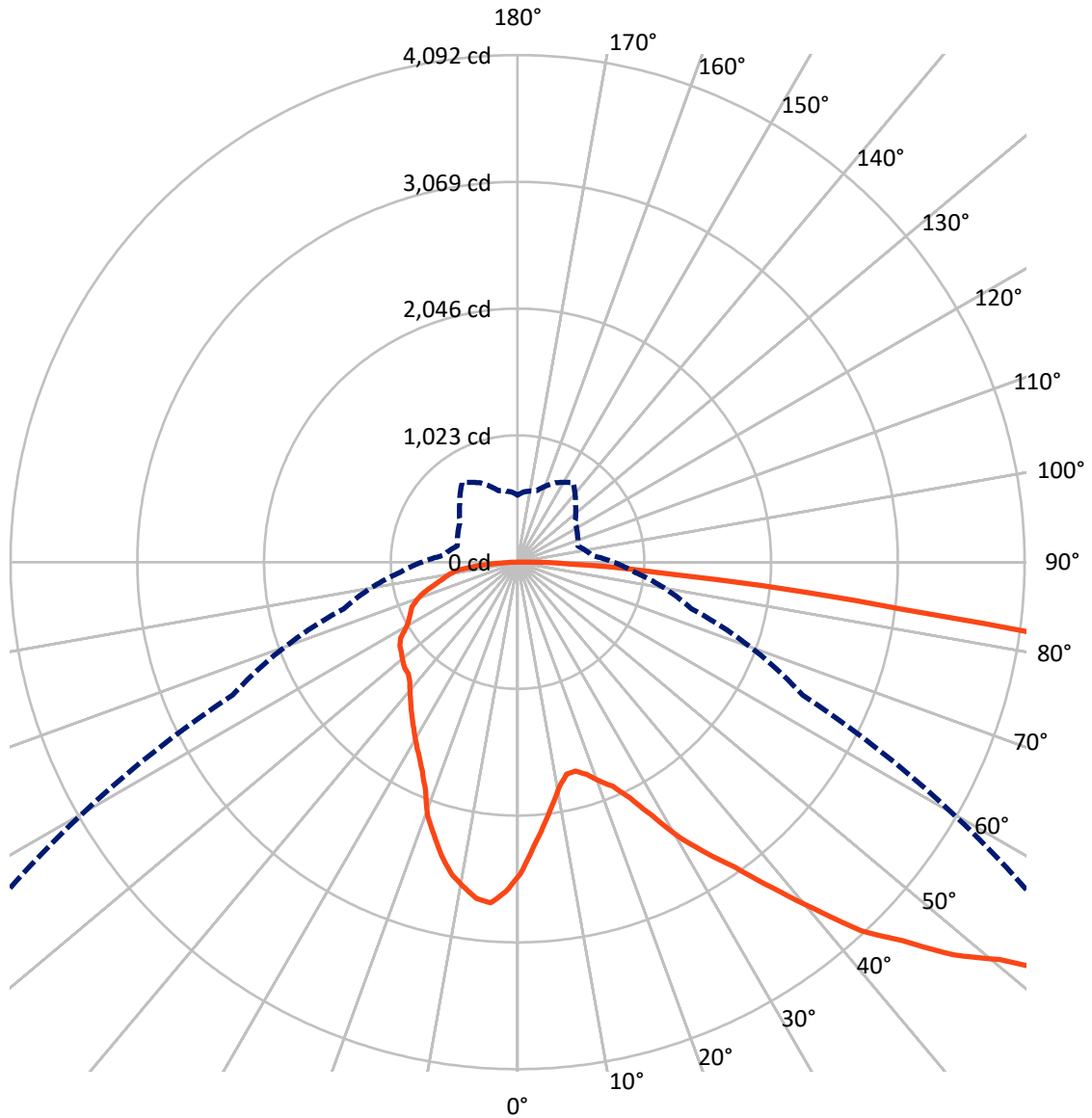
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	3791.6	0.0	3791.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	13761.0	0.0	13761.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	17552.6	0.0	17552.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.3	1.3
10°-20°	650.0	3.7
20°-30°	1069.8	6.1
30°-40°	1599.8	9.1
40°-50°	2371.7	13.5
50°-60°	3417.9	19.5
60°-70°	4361.7	24.8
70°-80°	3394.1	19.3
80°-90°	455.3	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°	17552.6	100.0
0°-180°	17552.6	100.0

Coefficient of Utilization



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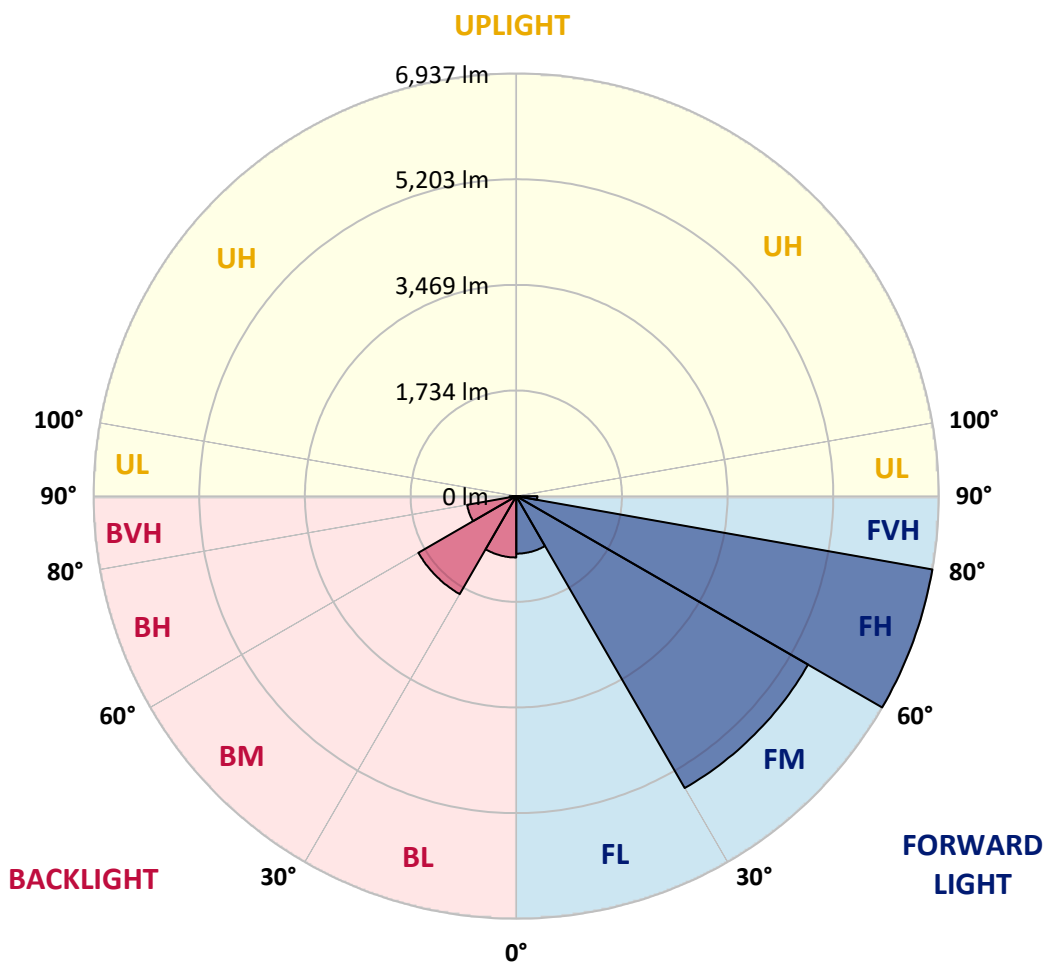
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	944.6	5.4			
FM (30°-60°)	5532.7	31.5			
FH (60°-80°)	6937.1	39.5			G3/7500
FVH (80°-90°)	346.6	2.0			G3/500
BL (0°-30°)	1007.4	5.7	B3/2500		
BM (30°-60°)	1856.8	10.6	B2/2500		
BH (60°-80°)	818.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	108.7	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2516.4	2516.4	2516.4	2516.4	2516.4	2516.4	2516.4	2516.4	2516.4	2516.4	2516.4
2.5°	2254.8	2262.2	2286.3	2291.9	2317.9	2303.0	2334.6	2390.2	2421.8	2468.2	2523.9
5°	2076.6	2045.1	2059.9	2117.4	2147.1	2154.6	2188.0	2282.6	2342.0	2410.7	2514.6
7.5°	1866.9	1861.3	1891.0	1928.2	1987.5	1993.1	2067.3	2150.9	2273.3	2425.5	2548.0
10°	1724.0	1748.1	1764.8	1803.8	1844.6	1844.6	1939.3	2084.0	2223.2	2369.8	2555.4
12.5°	1716.6	1701.8	1705.5	1725.9	1755.6	1792.7	1881.8	2011.7	2188.0	2358.7	2587.0
15°	1740.7	1746.3	1712.9	1738.9	1750.0	1763.0	1861.3	2008.0	2165.7	2397.7	2640.8
17.5°	1868.8	1837.2	1785.3	1761.1	1800.1	1800.1	1866.9	1982.0	2169.4	2418.1	2718.7
20°	1969.0	1969.0	1883.6	1857.6	1885.5	1879.9	1926.3	2011.7	2188.0	2458.9	2805.9
22.5°	2137.9	2162.0	2020.9	1967.1	1965.3	1980.1	2020.9	2093.3	2239.9	2516.4	2889.5
25°	2381.0	2386.5	2223.2	2167.6	2108.2	2132.3	2139.7	2212.1	2286.3	2583.2	2984.1
27.5°	2651.9	2648.2	2497.9	2358.7	2319.7	2325.3	2284.5	2332.7	2355.0	2603.7	3119.6
30°	2952.5	2919.1	2805.9	2609.2	2577.7	2542.4	2453.3	2451.5	2497.9	2718.7	3307.0
32.5°	3149.3	3106.6	3028.6	2887.6	2800.4	2804.1	2663.0	2661.2	2620.4	2844.9	3470.3
35°	3342.3	3277.3	3256.9	3112.1	3024.9	3034.2	2921.0	2906.2	2831.9	3036.1	3739.4
37.5°	3574.2	3516.7	3548.3	3438.8	3331.1	3286.6	3234.6	3216.1	3119.6	3305.1	4106.8
40°	3830.3	3811.8	3791.4	3737.5	3672.6	3676.3	3620.6	3602.1	3459.2	3629.9	4459.4
42.5°	4175.5	4105.0	3999.2	4034.5	4067.9	4103.1	4084.6	4036.3	3887.9	3960.2	4852.9
45°	4496.6	4403.8	4208.9	4220.0	4357.4	4385.2	4609.8	4604.2	4305.4	4379.6	5300.1
47.5°	4713.7	4671.0	4554.1	4541.1	4737.8	4736.0	5140.5	5140.5	4745.2	4797.2	5780.8
50°	5036.6	4925.2	4875.1	4940.1	5040.3	5109.0	5682.4	5717.7	5177.6	5233.3	6409.9
52.5°	5415.2	5276.0	5149.8	5316.8	5495.0	5539.5	6218.7	6203.9	5509.8	5739.9	7146.6
55°	5728.8	5658.3	5571.1	5667.6	5958.9	6014.6	6756.9	6619.6	5842.0	6159.3	7501.1
57.5°	6094.4	6137.1	6155.6	6131.5	6478.5	6565.8	7371.2	6977.7	6127.8	6441.4	7708.9
60°	6645.6	6671.5	6695.7	6753.2	7120.6	7243.1	7857.4	7426.8	6307.8	6604.7	7725.6
62.5°	7484.4	7384.2	7438.0	7636.5	7931.6	8070.8	8573.7	7742.3	6445.1	6703.1	7180.0
65°	8443.8	8308.3	8252.7	8508.8	9273.3	9162.0	9468.2	7978.0	6246.6	6335.6	6088.8
67.5°	9416.2	9431.1	9288.2	9802.2	10739.4	10739.4	10299.6	8091.2	5708.4	5134.9	4270.2
70°	10188.2	10234.6	10312.6	11309.1	12793.8	13018.3	11329.5	7627.3	4611.6	3418.3	2334.6
72.5°	10177.1	10037.9	10436.9	12272.3	14660.7	14473.2	11544.8	6031.3	2878.3	1673.9	1070.8
73°	9948.8	9831.9	10268.0	12263.0	14736.8	14560.5	11387.1	5559.9	2538.7	1451.2	952.0
75°	8124.6	7913.1	8655.4	11106.9	13634.4	13769.9	9674.2	3626.2	1391.8	894.5	669.9
77.5°	3704.1	3796.9	4763.8	7451.0	10507.4	10667.0	6359.8	1568.1	762.7	627.3	493.6
80°	1189.6	1248.9	1853.9	3704.1	6586.2	6873.8	2939.6	712.6	543.7	480.6	369.3
82.5°	454.7	452.8	777.6	1540.3	3121.4	3305.1	1074.5	434.3	404.6	354.5	261.7
85°	159.6	167.0	293.2	608.7	1228.5	1286.1	373.0	241.3	280.2	237.5	150.3
87.5°	55.7	57.5	103.9	220.8	423.1	447.2	103.9	96.5	139.2	137.3	76.1
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°	2516.4	2516.4	2516.4	2516.4	2516.4	2516.4	2516.4	2516.4	2516.4	2516.4	2516.4
2.5°	2542.4	2559.1	2564.7	2631.5	2631.5	2631.5	2657.5	2657.5	2650.1	2631.5	2676.0
5°	2553.6	2583.2	2640.8	2698.3	2713.2	2726.1	2761.4	2731.7	2742.8	2724.3	2741.0
7.5°	2585.1	2625.9	2733.6	2768.8	2744.7	2772.5	2735.4	2715.0	2694.6	2702.0	2676.0
10°	2638.9	2690.9	2741.0	2805.9	2759.5	2731.7	2655.6	2637.1	2572.1	2549.8	2570.3
12.5°	2705.7	2768.8	2854.2	2830.1	2741.0	2661.2	2579.5	2501.6	2462.6	2406.9	2421.8
15°	2772.5	2844.9	2857.9	2817.1	2705.7	2605.5	2457.1	2347.6	2308.6	2258.5	2284.5
17.5°	2844.9	2913.6	2891.3	2785.5	2635.2	2483.0	2314.2	2206.5	2124.9	2093.3	2093.3
20°	2952.5	2986.0	2950.7	2733.6	2549.8	2349.4	2186.1	2063.6	1982.0	1969.0	1948.6
22.5°	3036.1	3089.9	2932.1	2657.5	2425.5	2175.0	1987.5	1941.1	1917.0	1896.6	1870.6
25°	3143.7	3141.8	2898.7	2587.0	2212.1	1967.1	1853.9	1850.2	1839.1	1831.7	1866.9
27.5°	3245.8	3203.1	2859.8	2412.5	1991.3	1809.4	1748.1	1789.0	1805.7	1794.5	1809.4
30°	3407.2	3336.7	2804.1	2226.9	1796.4	1649.8	1660.9	1716.6	1744.4	1761.1	1738.9
32.5°	3577.9	3470.3	2689.0	2033.9	1623.8	1549.6	1575.6	1633.1	1666.5	1685.0	1705.5
35°	3824.8	3574.2	2572.1	1781.6	1499.5	1488.3	1503.2	1534.7	1583.0	1596.0	1601.5
37.5°	4129.1	3732.0	2414.4	1579.3	1403.0	1416.0	1430.8	1441.9	1443.8	1467.9	1458.6
40°	4433.5	3865.6	2184.3	1386.3	1302.8	1373.3	1365.9	1345.4	1328.7	1306.5	1300.9
42.5°	4700.7	3982.5	1928.2	1223.0	1213.7	1328.7	1304.6	1252.7	1213.7	1197.0	1169.1
45°	5001.3	4147.7	1670.2	1120.9	1145.0	1274.9	1267.5	1187.7	1137.6	1078.2	1070.8
47.5°	5391.0	4320.3	1423.4	1015.1	1080.1	1254.5	1258.2	1156.2	1083.8	1004.0	992.8
50°	5890.3	4568.9	1236.0	970.6	1041.1	1224.8	1230.4	1113.5	1018.8	937.2	929.7
52.5°	6369.0	4823.2	1080.1	901.9	1015.1	1189.6	1202.5	1074.5	965.0	862.9	868.5
55°	6610.3	4730.4	946.4	851.8	955.7	1132.0	1180.3	1046.7	883.4	812.8	811.0
57.5°	6664.1	4502.1	840.7	799.8	905.6	1070.8	1143.2	963.2	846.2	786.9	779.4
60°	6487.8	4103.1	757.2	744.2	842.5	1007.7	1057.8	918.6	809.1	760.9	749.7
62.5°	6053.6	3689.3	699.6	718.2	788.7	939.0	1004.0	887.1	773.9	740.5	716.3
65°	4964.2	3034.2	653.2	668.1	733.0	872.2	970.6	851.8	742.3	710.8	708.9
67.5°	3438.8	2091.5	616.1	644.0	688.5	824.0	937.2	812.8	701.5	690.4	675.5
70°	1761.1	1115.3	567.9	590.1	640.2	762.7	877.8	772.0	658.8	656.9	638.4
72.5°	892.6	653.2	512.2	545.6	580.9	682.9	803.6	718.2	605.0	584.6	554.9
73°	772.0	605.0	502.9	532.6	566.0	660.7	781.3	705.2	597.6	567.9	540.0
75°	562.3	476.9	451.0	480.6	506.6	595.7	707.1	645.8	549.3	517.8	491.8
77.5°	421.3	367.4	374.9	408.3	430.5	514.1	629.1	584.6	497.3	454.7	443.5
80°	309.9	280.2	309.9	341.5	358.2	452.8	573.4	506.6	419.4	371.2	361.9
82.5°	220.8	204.1	239.4	259.8	267.2	374.9	515.9	404.6	317.3	254.2	233.8
85°	126.2	124.3	161.5	159.6	165.2	219.0	339.6	269.1	204.1	155.9	152.2
87.5°	55.7	61.2	81.7	65.0	68.7	103.9	144.8	100.2	83.5	46.4	35.3
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)