

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: P478042

Luminaire Tested: **IFLD-S-SA3D-727-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478042
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-727-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

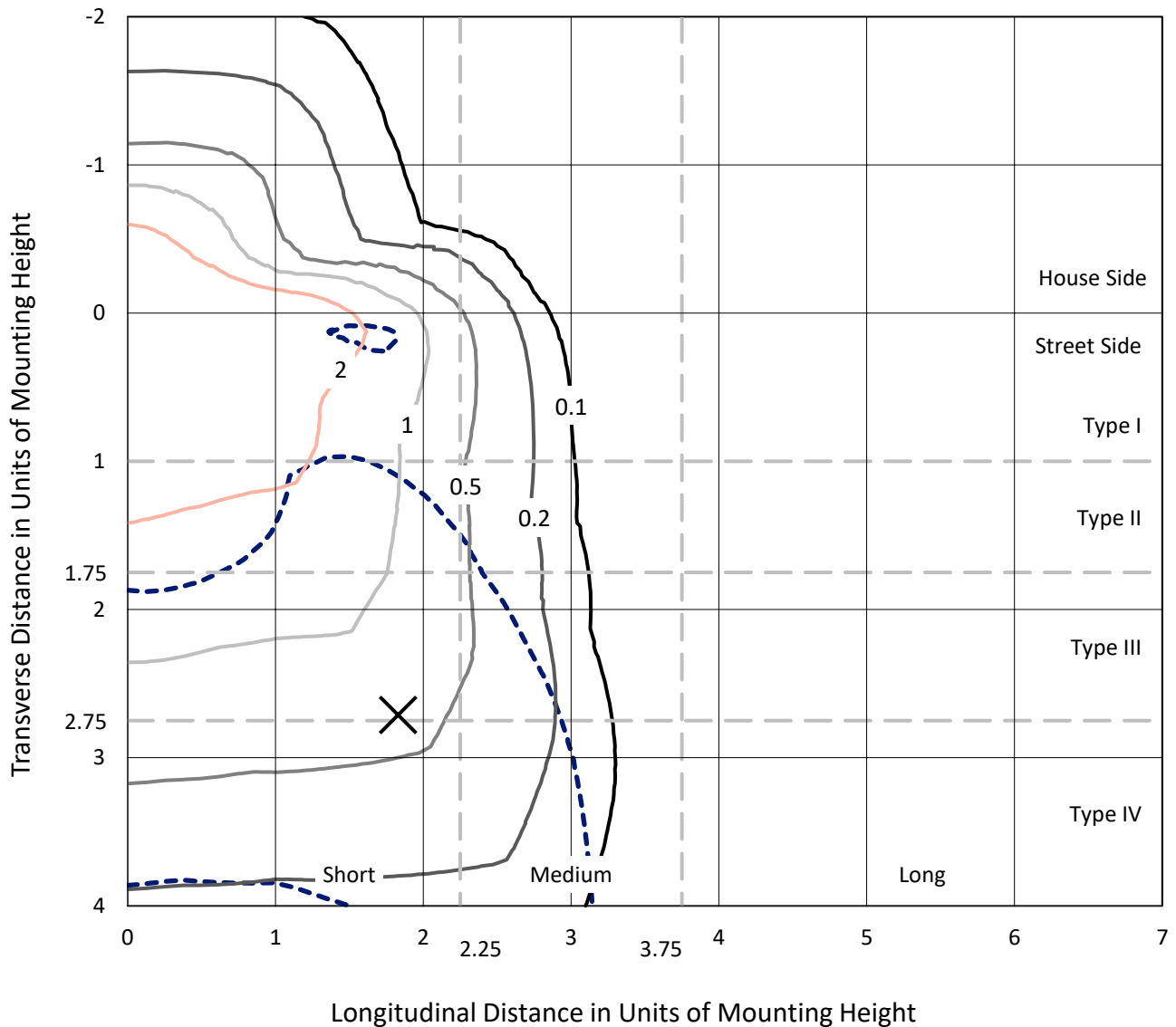
Lumens per Lamp: N/A
Luminaire Lumens: 19969 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

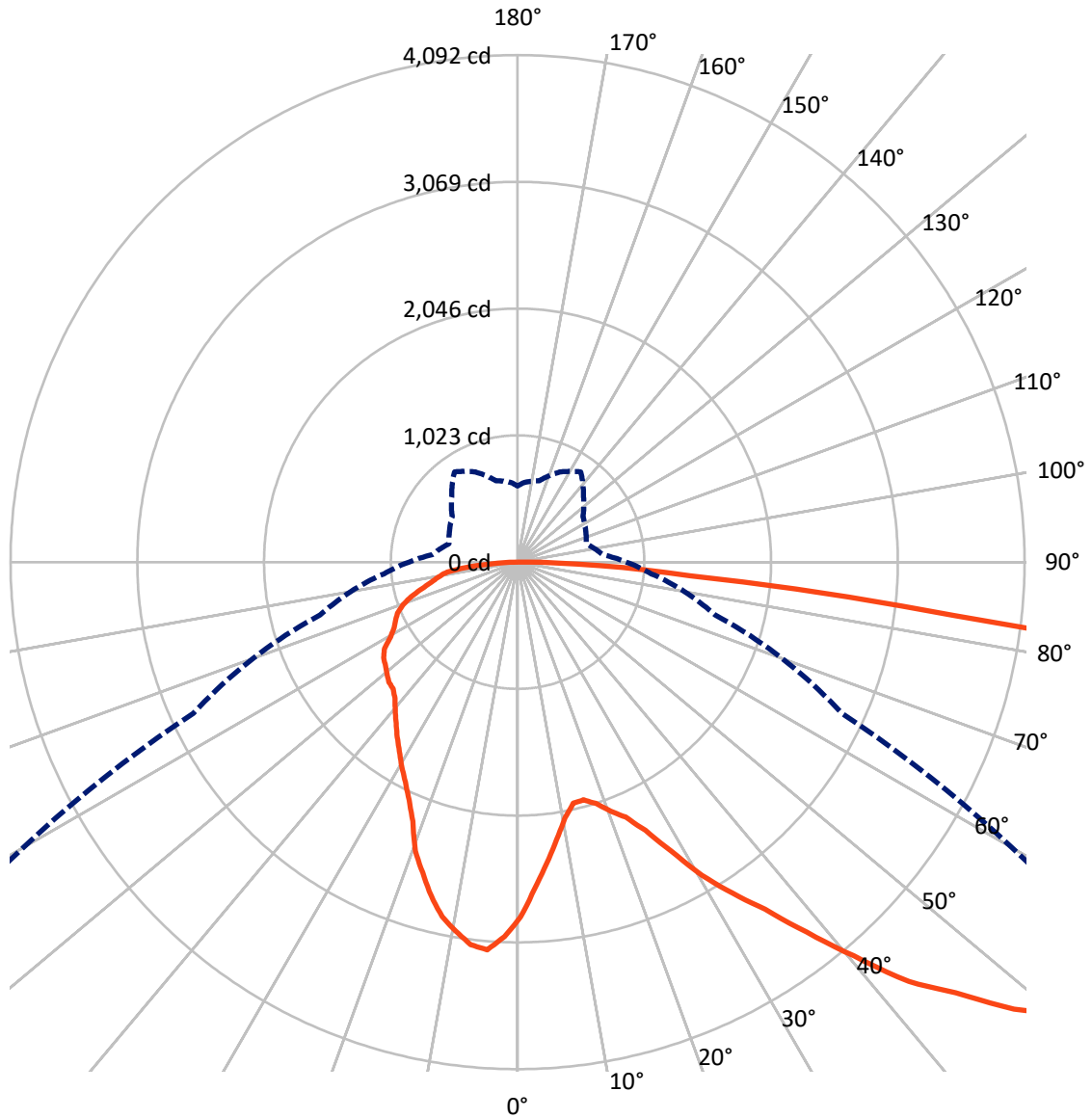
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	4313.6	0.0	4313.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	15655.5	0.0	15655.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	19969.0	0.0	19969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.2	1.3
10°-20°	739.5	3.7
20°-30°	1217.1	6.1
30°-40°	1820.1	9.1
40°-50°	2698.2	13.5
50°-60°	3888.4	19.5
60°-70°	4962.1	24.8
70°-80°	3861.4	19.3
80°-90°	518.0	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°	19969.0	100.0
0°-180°	19969.0	100.0

Coefficient of Utilization



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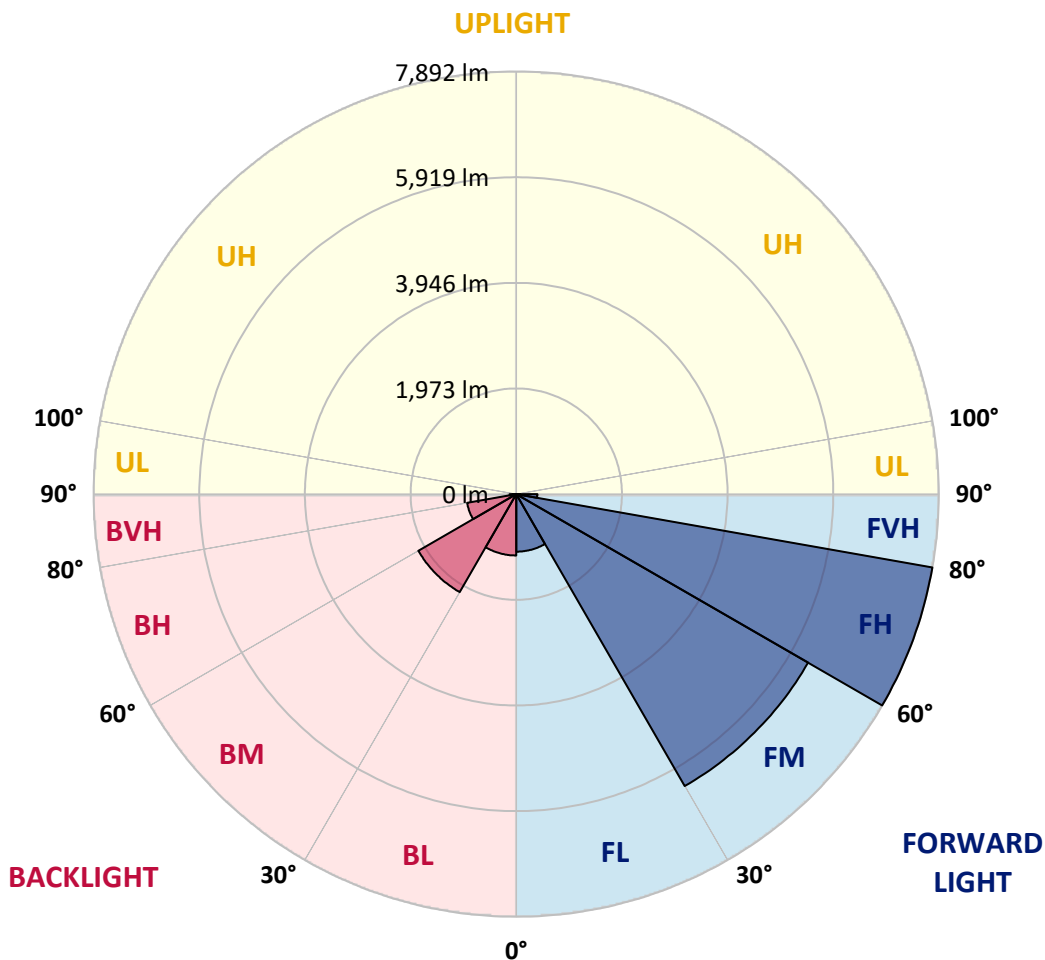
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1074.7	5.4			
FM (30°-60°)	6294.4	31.5			
FH (60°-80°)	7892.1	39.5			G4/12000
FVH (80°-90°)	394.3	2.0			G3/500
BL (0°-30°)	1146.1	5.7	B3/2500		
BM (30°-60°)	2112.4	10.6	B2/2500		
BH (60°-80°)	931.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	123.7	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°	2862.9	2862.9	2862.9	2862.9	2862.9	2862.9	2862.9	2862.9	2862.9	2862.9	2862.9
2.5°	2565.2	2573.6	2601.1	2607.4	2637.0	2620.1	2656.0	2719.3	2755.2	2808.0	2871.3
5°	2362.5	2326.6	2343.5	2409.0	2442.7	2451.2	2489.2	2596.9	2664.4	2742.5	2860.8
7.5°	2123.9	2117.6	2151.4	2193.6	2261.2	2267.5	2351.9	2447.0	2586.3	2759.4	2898.8
10°	1961.4	1988.8	2007.8	2052.1	2098.6	2098.6	2206.3	2370.9	2529.3	2696.1	2907.2
12.5°	1952.9	1936.0	1940.3	1963.5	1997.3	2039.5	2140.8	2288.6	2489.2	2683.4	2943.1
15°	1980.4	1986.7	1948.7	1978.3	1990.9	2005.7	2117.6	2284.4	2463.8	2727.8	3004.3
17.5°	2126.0	2090.2	2031.0	2003.6	2047.9	2047.9	2123.9	2254.8	2468.1	2751.0	3093.0
20°	2240.1	2240.1	2142.9	2113.4	2145.0	2138.7	2191.5	2288.6	2489.2	2797.4	3192.2
22.5°	2432.2	2459.6	2299.2	2237.9	2235.8	2252.7	2299.2	2381.5	2548.3	2862.9	3287.2
25°	2708.8	2715.1	2529.3	2466.0	2398.4	2425.8	2434.3	2516.6	2601.1	2938.9	3394.9
27.5°	3017.0	3012.8	2841.8	2683.4	2639.1	2645.4	2599.0	2653.9	2679.2	2962.1	3549.0
30°	3359.0	3321.0	3192.2	2968.4	2932.5	2892.4	2791.1	2789.0	2841.8	3093.0	3762.3
32.5°	3582.8	3534.3	3445.6	3285.1	3185.9	3190.1	3029.7	3027.6	2981.1	3236.6	3948.1
35°	3802.4	3728.5	3705.3	3540.6	3441.4	3451.9	3323.1	3306.2	3221.8	3454.0	4254.2
37.5°	4066.3	4000.8	4036.7	3912.2	3789.7	3739.0	3679.9	3658.8	3549.0	3760.2	4672.2
40°	4357.6	4336.5	4313.3	4252.1	4178.2	4182.4	4119.1	4098.0	3935.4	4129.6	5073.4
42.5°	4750.3	4670.1	4549.8	4589.9	4627.9	4668.0	4646.9	4592.0	4423.1	4505.4	5521.0
45°	5115.6	5010.0	4788.3	4801.0	4957.2	4988.9	5244.4	5238.0	4898.1	4982.6	6029.8
47.5°	5362.6	5314.1	5181.0	5166.3	5390.1	5387.9	5848.2	5848.2	5398.5	5457.6	6576.6
50°	5730.0	5603.3	5546.3	5620.2	5734.2	5812.3	6464.7	6504.8	5890.4	5953.8	7292.3
52.5°	6160.7	6002.3	5858.8	6048.8	6251.5	6302.1	7074.8	7058.0	6268.3	6530.1	8130.5
55°	6517.5	6437.2	6338.0	6447.8	6779.3	6842.6	7687.1	7530.9	6646.3	7007.3	8533.7
57.5°	6933.4	6982.0	7003.1	6975.6	7370.4	7469.7	8385.9	7938.4	6971.4	7328.2	8770.2
60°	7560.4	7590.0	7617.4	7682.9	8100.9	8240.3	8939.1	8449.3	7176.2	7514.0	8789.2
62.5°	8514.7	8400.7	8461.9	8687.9	9023.5	9181.9	9754.0	8808.2	7332.4	7625.9	8168.5
65°	9606.3	9452.1	9388.8	9680.1	10550.0	10423.3	10771.7	9076.3	7106.5	7207.9	6927.1
67.5°	10712.6	10729.4	10566.9	11151.7	12217.9	12217.9	11717.5	9205.1	6494.2	5841.9	4858.0
70°	11590.8	11643.6	11732.3	12866.0	14555.1	14810.5	12889.3	8677.3	5246.5	3888.9	2656.0
72.5°	11578.2	11419.8	11873.7	13961.8	16679.0	16465.7	13134.2	6861.6	3274.6	1904.4	1218.2
73°	11318.5	11185.5	11681.6	13951.2	16765.5	16565.0	12954.7	6325.3	2888.2	1651.0	1083.1
75°	9243.1	9002.4	9846.9	12635.9	15511.5	15665.6	11006.0	4125.4	1583.4	1017.6	762.2
77.5°	4214.1	4319.6	5419.6	8476.7	11954.0	12135.5	7235.3	1784.0	867.7	713.6	561.6
80°	1353.3	1420.9	2109.2	4214.1	7492.9	7820.1	3344.2	810.7	618.6	546.8	420.1
82.5°	517.3	515.1	884.6	1752.3	3551.1	3760.2	1222.4	494.0	460.3	403.3	297.7
85°	181.6	190.0	333.6	692.5	1397.7	1463.1	424.4	274.5	318.8	270.2	171.0
87.5°	63.3	65.4	118.2	251.2	481.4	508.8	118.2	109.8	158.3	156.2	86.6
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°	2862.9	2862.9	2862.9	2862.9	2862.9	2862.9	2862.9	2862.9	2862.9	2862.9	2862.9
2.5°	2892.4	2911.4	2917.8	2993.8	2993.8	2993.8	3023.3	3023.3	3014.9	2993.8	3044.4
5°	2905.1	2938.9	3004.3	3069.8	3086.7	3101.4	3141.6	3107.8	3120.4	3099.3	3118.3
7.5°	2941.0	2987.4	3109.9	3150.0	3122.6	3154.2	3112.0	3088.8	3065.6	3074.0	3044.4
10°	3002.2	3061.3	3118.3	3192.2	3139.4	3107.8	3021.2	3000.1	2926.2	2900.9	2924.1
12.5°	3078.2	3150.0	3247.1	3219.7	3118.3	3027.6	2934.7	2846.0	2801.6	2738.3	2755.2
15°	3154.2	3236.6	3251.3	3204.9	3078.2	2964.2	2795.3	2670.7	2626.4	2569.4	2599.0
17.5°	3236.6	3314.7	3289.3	3169.0	2998.0	2824.9	2632.7	2510.3	2417.4	2381.5	2381.5
20°	3359.0	3397.0	3356.9	3109.9	2900.9	2672.9	2487.1	2347.7	2254.8	2240.1	2216.8
22.5°	3454.0	3515.3	3335.8	3023.3	2759.4	2474.4	2261.2	2208.4	2180.9	2157.7	2128.2
25°	3576.5	3574.4	3297.8	2943.1	2516.6	2237.9	2109.2	2104.9	2092.3	2083.8	2123.9
27.5°	3692.6	3644.0	3253.5	2744.6	2265.4	2058.5	1988.8	2035.3	2054.3	2041.6	2058.5
30°	3876.3	3796.1	3190.1	2533.5	2043.7	1876.9	1889.6	1952.9	1984.6	2003.6	1978.3
32.5°	4070.5	3948.1	3059.2	2313.9	1847.4	1762.9	1792.5	1857.9	1895.9	1917.0	1940.3
35°	4351.3	4066.3	2926.2	2026.8	1705.9	1693.2	1710.1	1746.0	1800.9	1815.7	1822.0
37.5°	4697.6	4245.8	2746.8	1796.7	1596.1	1610.9	1627.8	1640.5	1642.6	1670.0	1659.5
40°	5043.8	4397.8	2485.0	1577.1	1482.1	1562.3	1553.9	1530.7	1511.7	1486.3	1480.0
42.5°	5347.8	4530.8	2193.6	1391.3	1380.8	1511.7	1484.2	1425.1	1380.8	1361.8	1330.1
45°	5689.9	4718.7	1900.1	1275.2	1302.6	1450.4	1442.0	1351.2	1294.2	1226.6	1218.2
47.5°	6133.2	4915.0	1619.3	1154.9	1228.8	1427.2	1431.4	1315.3	1233.0	1142.2	1129.5
50°	6701.2	5197.9	1406.1	1104.2	1184.4	1393.4	1399.8	1266.8	1159.1	1066.2	1057.7
52.5°	7245.9	5487.2	1228.8	1026.1	1154.9	1353.3	1368.1	1222.4	1097.9	981.7	988.1
55°	7520.3	5381.6	1076.7	969.1	1087.3	1287.9	1342.8	1190.8	1005.0	924.7	922.6
57.5°	7581.5	5121.9	956.4	910.0	1030.3	1218.2	1300.5	1095.7	962.7	895.2	886.7
60°	7381.0	4668.0	861.4	846.6	958.5	1146.4	1203.4	1045.1	920.5	865.6	853.0
62.5°	6886.9	4197.2	795.9	817.1	897.3	1068.3	1142.2	1009.2	880.4	842.4	814.9
65°	5647.6	3451.9	743.2	760.1	833.9	992.3	1104.2	969.1	844.5	808.6	806.5
67.5°	3912.2	2379.4	700.9	732.6	783.3	937.4	1066.2	924.7	798.1	785.4	768.5
70°	2003.6	1268.9	646.0	671.4	728.4	867.7	998.6	878.3	749.5	747.4	726.3
72.5°	1015.5	743.2	582.7	620.7	660.8	776.9	914.2	817.1	688.3	665.0	631.3
73°	878.3	688.3	572.2	605.9	643.9	751.6	888.8	802.3	679.8	646.0	614.4
75°	639.7	542.6	513.0	546.8	576.4	677.7	804.4	734.7	624.9	589.0	559.5
77.5°	479.3	418.0	426.5	464.5	489.8	584.8	715.7	665.0	565.8	517.3	504.6
80°	352.6	318.8	352.6	388.5	407.5	515.1	652.4	576.4	477.1	422.3	411.7
82.5°	251.2	232.2	272.4	295.6	304.0	426.5	586.9	460.3	361.0	289.2	266.0
85°	143.6	141.5	183.7	181.6	187.9	249.1	386.4	306.1	232.2	177.3	173.1
87.5°	63.3	69.7	92.9	73.9	78.1	118.2	164.7	114.0	95.0	52.8	40.1
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)