

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: P478605

Luminaire Tested: **IFLD-M-SA4A-750-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478605
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-750-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

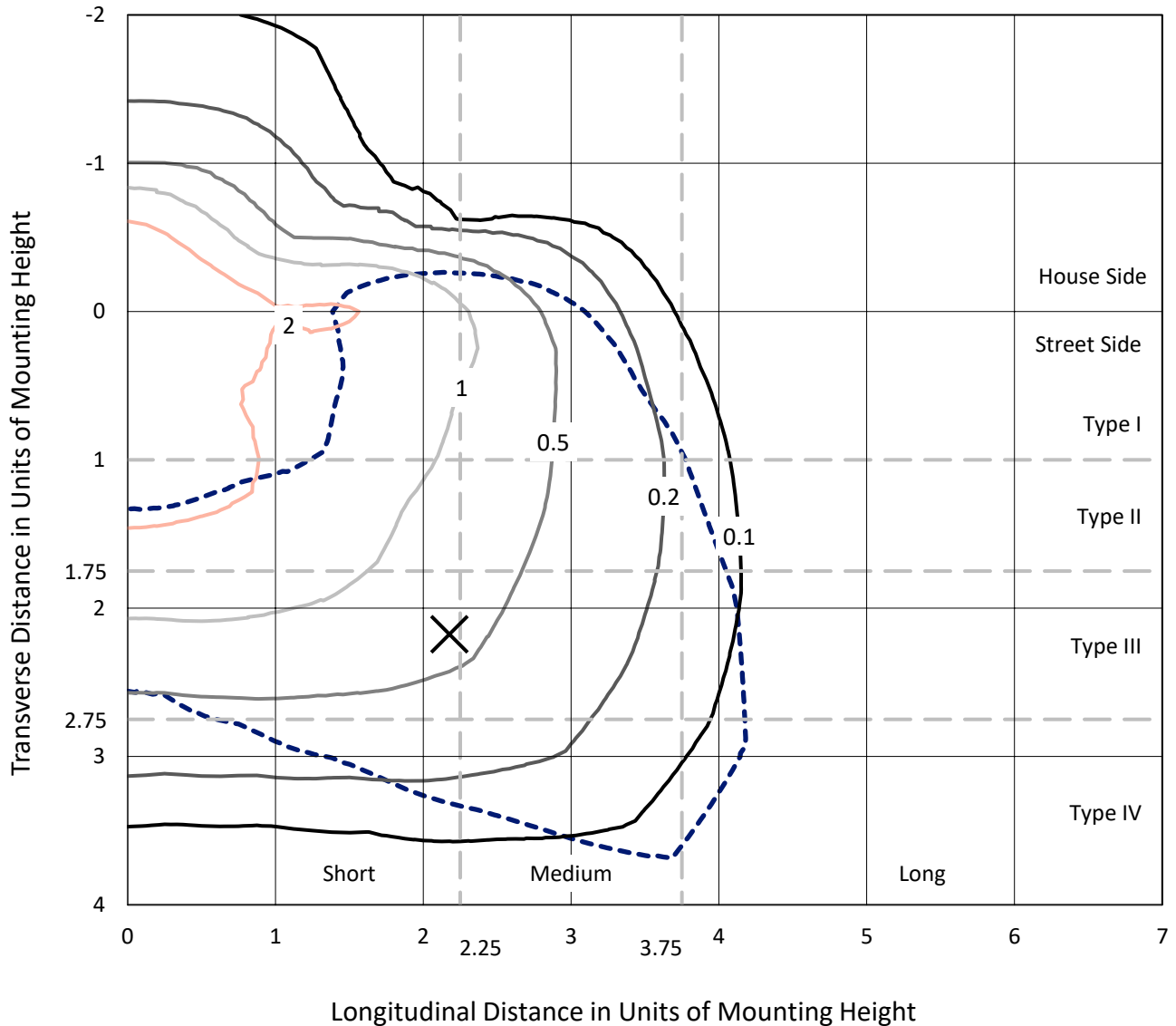
Lumens per Lamp: N/A
Luminaire Lumens: 19093.9 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (A_{in}): 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

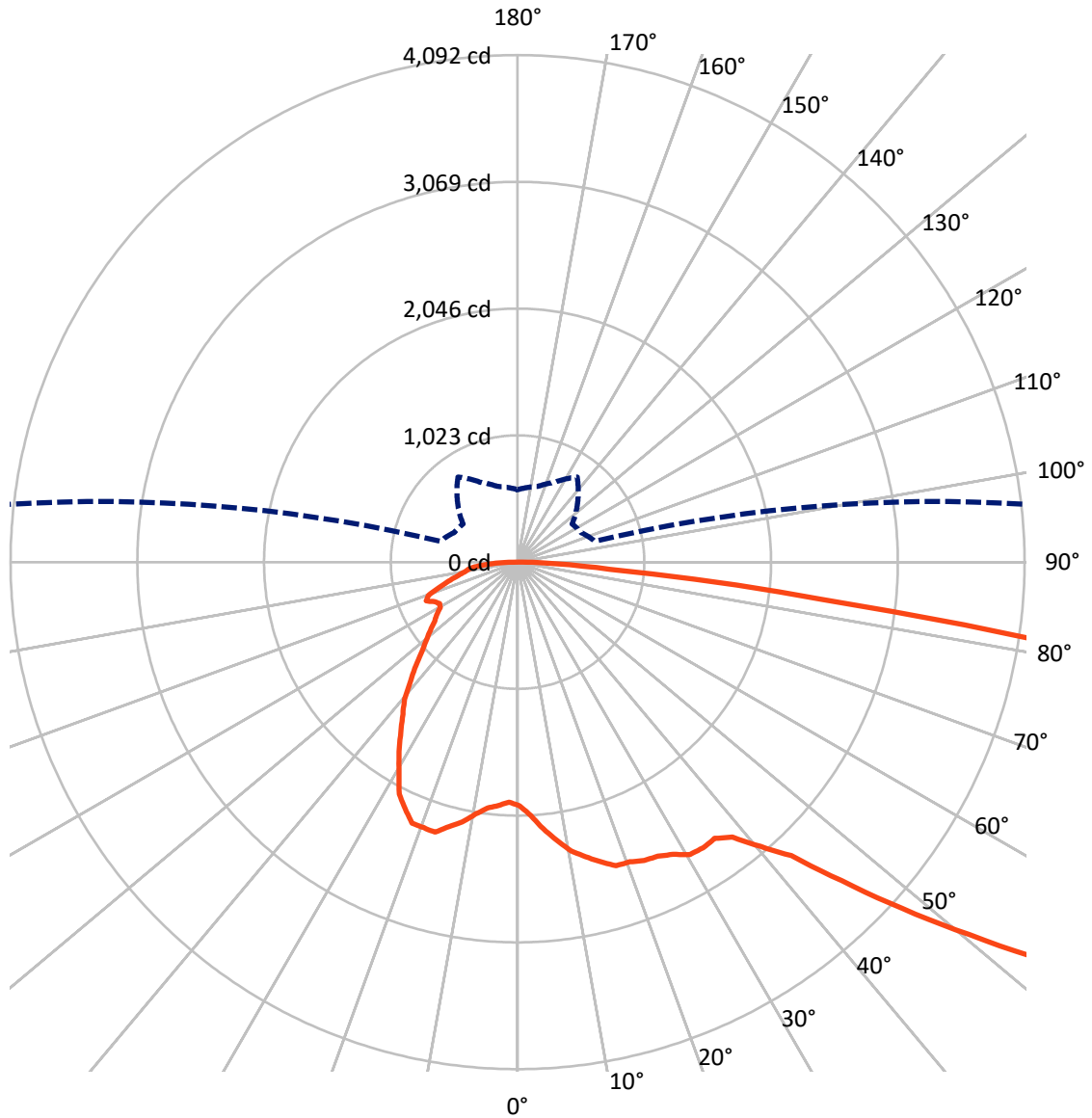
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4250.4	0.0	4250.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	14843.5	0.0	14843.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	19093.9	0.0	19093.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.2	1.1
10°-20°	669.4	3.5
20°-30°	1130.5	5.9
30°-40°	1564.4	8.2
40°-50°	2237.8	11.7
50°-60°	3609.2	18.9
60°-70°	5323.1	27.9
70°-80°	3865.5	20.2
80°-90°	492.8	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°	19093.9	100.0
0°-180°	19093.9	100.0

Coefficient of Utilization



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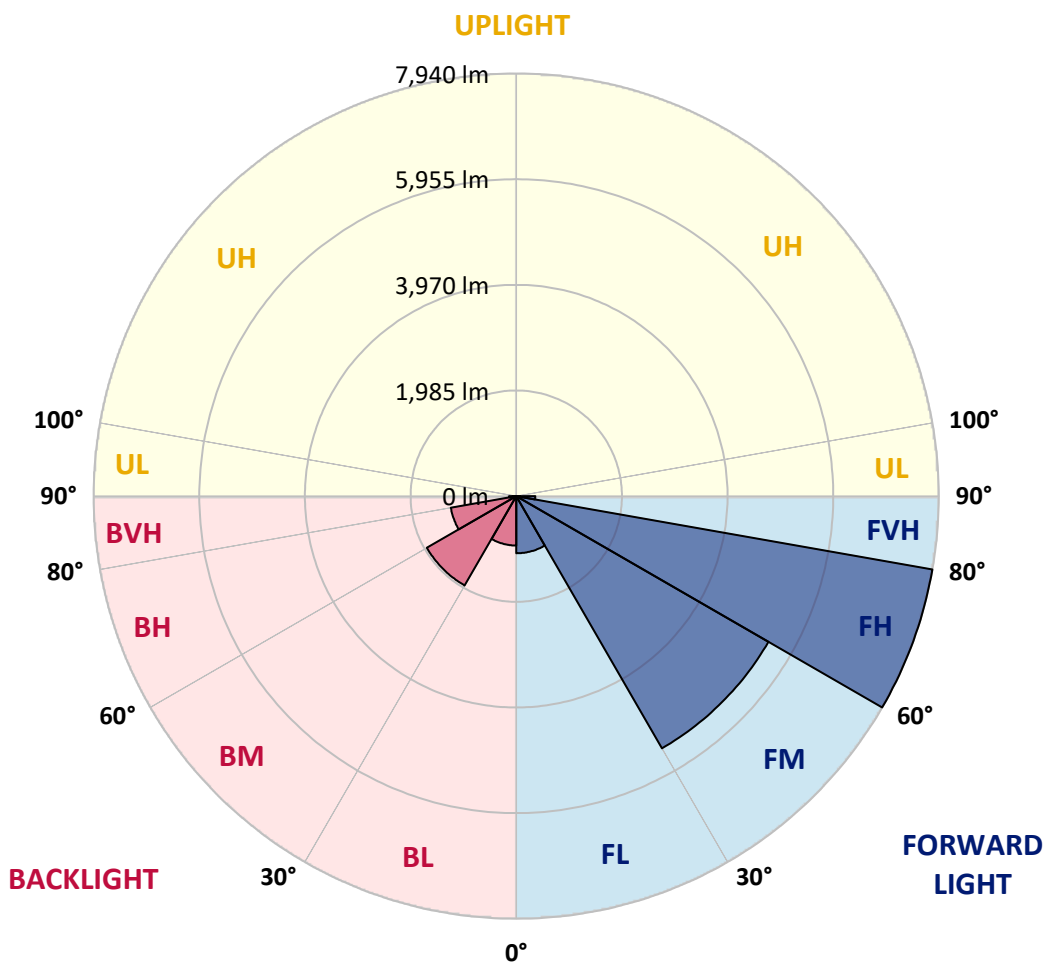
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1073.1	5.6			
FM (30°-60°)	5471.6	28.7			
FH (60°-80°)	7940.1	41.6			G4/12000
FVH (80°-90°)	358.7	1.9			G3/500
BL (0°-30°)	928.0	4.9	B2/1000		
BM (30°-60°)	1939.8	10.2	B2/2500		
BH (60°-80°)	1248.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	134.1	0.7			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°	35°	44°	45°	55°	65°	75°	85°
0°	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3
2.5°	2071.3	2083.7	2071.3	2069.3	2048.7	2034.3	2046.6	2028.1	2007.5	1999.3	1980.7
5°	2260.8	2262.8	2240.2	2242.2	2199.0	2153.7	2161.9	2106.3	2046.6	2024.0	1986.9
7.5°	2454.3	2431.7	2398.7	2388.4	2320.5	2271.1	2264.9	2215.5	2122.8	2071.3	2019.9
10°	2579.9	2588.1	2534.6	2489.3	2431.7	2371.9	2369.9	2277.2	2223.7	2147.5	2081.6
12.5°	2691.1	2693.1	2647.8	2575.8	2503.7	2429.6	2439.9	2398.7	2308.1	2236.1	2170.2
15°	2777.6	2765.2	2715.8	2649.9	2573.7	2516.1	2509.9	2474.9	2398.7	2339.0	2229.9
17.5°	2802.3	2796.1	2746.7	2676.7	2602.6	2559.3	2575.8	2518.1	2487.2	2433.7	2328.7
20°	2754.9	2740.5	2732.3	2654.0	2600.5	2596.4	2582.0	2594.3	2542.8	2493.4	2417.2
22.5°	2668.4	2662.3	2658.1	2596.4	2571.7	2590.2	2614.9	2633.4	2625.2	2577.8	2491.4
25°	2579.9	2608.7	2582.0	2553.1	2588.1	2635.5	2629.3	2689.0	2689.0	2674.6	2602.6
27.5°	2641.7	2623.1	2602.6	2588.1	2600.5	2674.6	2670.5	2742.6	2769.3	2742.6	2660.2
30°	2796.1	2777.6	2717.9	2654.0	2637.6	2717.9	2738.4	2802.3	2814.6	2748.7	2678.7
32.5°	3086.4	3076.1	2981.4	2794.0	2693.1	2738.4	2748.7	2820.8	2810.5	2769.3	2740.5
35°	3516.7	3481.7	3350.0	3032.9	2810.5	2765.2	2738.4	2796.1	2835.2	2814.6	2787.9
37.5°	3988.2	3949.1	3786.5	3385.0	3022.6	2837.3	2816.7	2864.0	2909.3	2899.0	2843.5
40°	4439.2	4439.2	4293.0	3825.6	3337.6	3012.3	3016.4	2962.9	3004.1	2985.5	2995.8
42.5°	4883.9	4867.4	4807.7	4342.4	3675.3	3304.7	3238.8	3104.9	3179.1	3172.9	3187.3
45°	5334.8	5322.5	5306.0	4824.2	4159.1	3700.0	3665.0	3424.1	3492.0	3463.2	3525.0
47.5°	5695.1	5709.6	5709.6	5361.6	4675.9	4227.1	4175.6	3794.7	3924.4	3938.8	3953.2
50°	6001.9	6008.1	6001.9	5874.3	5252.5	4830.4	4725.4	4338.3	4468.0	4581.2	4713.0
52.5°	6426.1	6434.3	6405.5	6356.1	6034.9	5464.5	5347.2	4916.8	5182.5	5301.9	5538.7
55°	6949.1	6887.3	6833.8	6870.8	6786.4	6162.5	6041.0	5513.9	5913.4	6071.9	6545.5
57.5°	7045.8	7099.4	7235.3	7529.7	7651.2	6842.0	6772.0	6246.9	6739.0	6877.0	7667.6
60°	7387.6	7299.1	7632.6	8270.9	8406.8	7727.4	7655.3	7049.9	7560.6	7704.7	8703.3
62.5°	7612.1	7607.9	8102.1	8859.8	9168.6	8645.7	8499.5	8093.9	8448.0	8588.0	9831.6
65°	7546.2	7605.9	8483.0	9205.7	9804.9	9689.6	9605.1	8991.6	9459.0	9446.6	10566.7
67.5°	6944.9	7113.8	8242.1	9454.8	10752.0	10962.0	10935.2	10253.7	10280.5	10019.0	10894.1
70°	6111.1	6053.4	7222.9	9195.4	11225.6	12471.2	12465.1	11192.6	11019.7	10144.6	9955.2
72°	4694.5	4630.6	5592.2	7896.2	10976.4	13074.5	13259.8	11843.3	11011.4	9623.7	8223.6
72.5°	4262.1	4206.5	5163.9	7432.9	10700.5	13231.0	13144.5	11868.0	10924.9	9378.7	7682.1
75°	1962.2	1898.4	2579.9	4550.3	8347.1	11723.8	12018.3	11106.1	9541.3	7465.9	4601.8
77.5°	584.8	566.2	829.8	1836.6	4851.0	8637.4	8750.7	8380.1	6660.8	4089.1	1706.9
80°	325.3	327.4	428.3	687.7	2133.1	4993.0	5400.7	5176.3	3267.6	1350.7	568.3
82.5°	181.2	191.5	267.7	407.7	980.1	2291.6	2466.7	2378.1	1181.9	634.2	310.9
85°	94.7	98.8	140.0	218.3	555.9	724.8	745.4	798.9	613.6	432.4	166.8
87.5°	37.1	37.1	51.5	90.6	205.9	224.4	201.8	245.0	352.1	280.0	82.4
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°	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3	1966.3
2.5°	1997.2	1980.7	1978.7	1951.9	1960.1	1937.5	1939.6	1935.4	1937.5	1933.4	1923.1
5°	1986.9	1974.6	1939.6	1962.2	1941.6	1970.4	1993.1	1984.9	1991.0	1989.0	1991.0
7.5°	2001.3	1984.9	1980.7	1968.4	1986.9	1999.3	2017.8	2069.3	2065.2	2071.3	2083.7
10°	2044.6	2026.0	2013.7	2032.2	2021.9	2061.0	2081.6	2108.4	2155.8	2157.8	2133.1
12.5°	2129.0	2116.6	2091.9	2096.0	2131.0	2143.4	2155.8	2172.2	2203.1	2196.9	2219.6
15°	2225.8	2199.0	2184.6	2180.5	2188.7	2203.1	2201.1	2217.5	2234.0	2248.4	2242.2
17.5°	2295.8	2260.8	2264.9	2285.5	2283.4	2279.3	2252.5	2244.3	2252.5	2260.8	2256.6
20°	2367.8	2371.9	2341.1	2322.5	2314.3	2273.1	2252.5	2227.8	2203.1	2215.5	2234.0
22.5°	2458.4	2439.9	2394.6	2339.0	2297.8	2273.1	2209.3	2166.0	2166.0	2178.4	2172.2
25°	2561.4	2522.3	2444.0	2343.1	2291.6	2186.6	2141.3	2135.2	2118.7	2137.2	2145.5
27.5°	2641.7	2606.7	2499.6	2328.7	2186.6	2102.2	2075.5	2067.2	2094.0	2096.0	2129.0
30°	2674.6	2664.3	2507.8	2291.6	2079.6	1943.7	1927.2	1964.3	1993.1	2036.3	2038.4
32.5°	2717.9	2722.0	2520.2	2205.2	1939.6	1803.7	1779.0	1824.3	1906.6	1941.6	1968.4
35°	2789.9	2810.5	2509.9	2098.1	1791.3	1661.6	1657.5	1669.8	1750.1	1811.9	1846.9
37.5°	2915.5	2911.4	2507.8	1970.4	1674.0	1538.1	1505.1	1509.2	1562.8	1614.2	1608.1
40°	3084.4	3067.9	2501.7	1803.7	1521.6	1433.1	1377.5	1356.9	1352.8	1338.3	1342.5
42.5°	3315.0	3282.0	2499.6	1634.8	1383.6	1288.9	1249.8	1196.3	1157.1	1083.0	1087.1
45°	3636.2	3578.5	2446.1	1476.3	1247.7	1169.5	1109.8	1070.7	986.3	893.6	893.6
47.5°	4132.4	3945.0	2448.1	1301.3	1116.0	1052.1	1011.0	943.0	852.4	778.3	770.1
50°	4863.3	4435.0	2378.1	1163.3	1008.9	965.7	922.4	844.2	757.7	706.2	712.4
52.5°	5806.3	5166.0	2376.1	1039.8	924.5	893.6	846.2	776.2	712.4	679.5	667.1
55°	6930.5	6133.7	2450.2	938.9	838.0	821.5	800.9	743.3	681.5	652.7	650.6
57.5°	8081.5	7078.8	2569.6	866.8	763.9	776.2	761.8	716.5	667.1	634.2	630.0
60°	9104.8	7828.2	2328.7	780.4	698.0	724.8	745.4	706.2	679.5	677.4	663.0
62.5°	9876.9	8149.4	1770.7	714.5	663.0	712.4	768.0	792.7	780.4	796.8	798.9
65°	10159.0	7955.9	1218.9	679.5	636.2	741.2	864.8	856.5	784.5	753.6	770.1
67.5°	9763.7	7171.4	903.9	638.3	617.7	800.9	920.4	817.4	708.3	704.2	691.8
70°	8396.5	6078.1	737.1	595.0	586.8	768.0	895.7	757.7	667.1	640.3	628.0
72°	6689.6	4733.6	646.5	564.2	537.4	685.6	838.0	710.3	632.1	599.2	584.8
72.5°	6106.9	4387.7	634.2	549.7	527.1	667.1	809.2	695.9	623.9	595.0	572.4
75°	3350.0	2246.3	558.0	504.5	444.7	576.5	749.5	652.7	588.9	547.7	543.6
77.5°	1245.7	870.9	481.8	446.8	385.0	498.3	681.5	619.8	535.3	483.9	473.6
80°	477.7	459.2	393.3	376.8	323.3	436.5	628.0	555.9	455.0	403.6	387.1
82.5°	290.3	267.7	298.6	294.4	247.1	397.4	590.9	520.9	403.6	327.4	317.1
85°	158.5	158.5	208.0	199.7	173.0	317.1	446.8	345.9	255.3	210.0	214.1
87.5°	70.0	82.4	111.2	105.0	94.7	179.1	218.3	183.2	127.7	86.5	92.7
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)