

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: P476716

Luminaire Tested: **IFLD-S-SA3D-827-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476716  
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-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

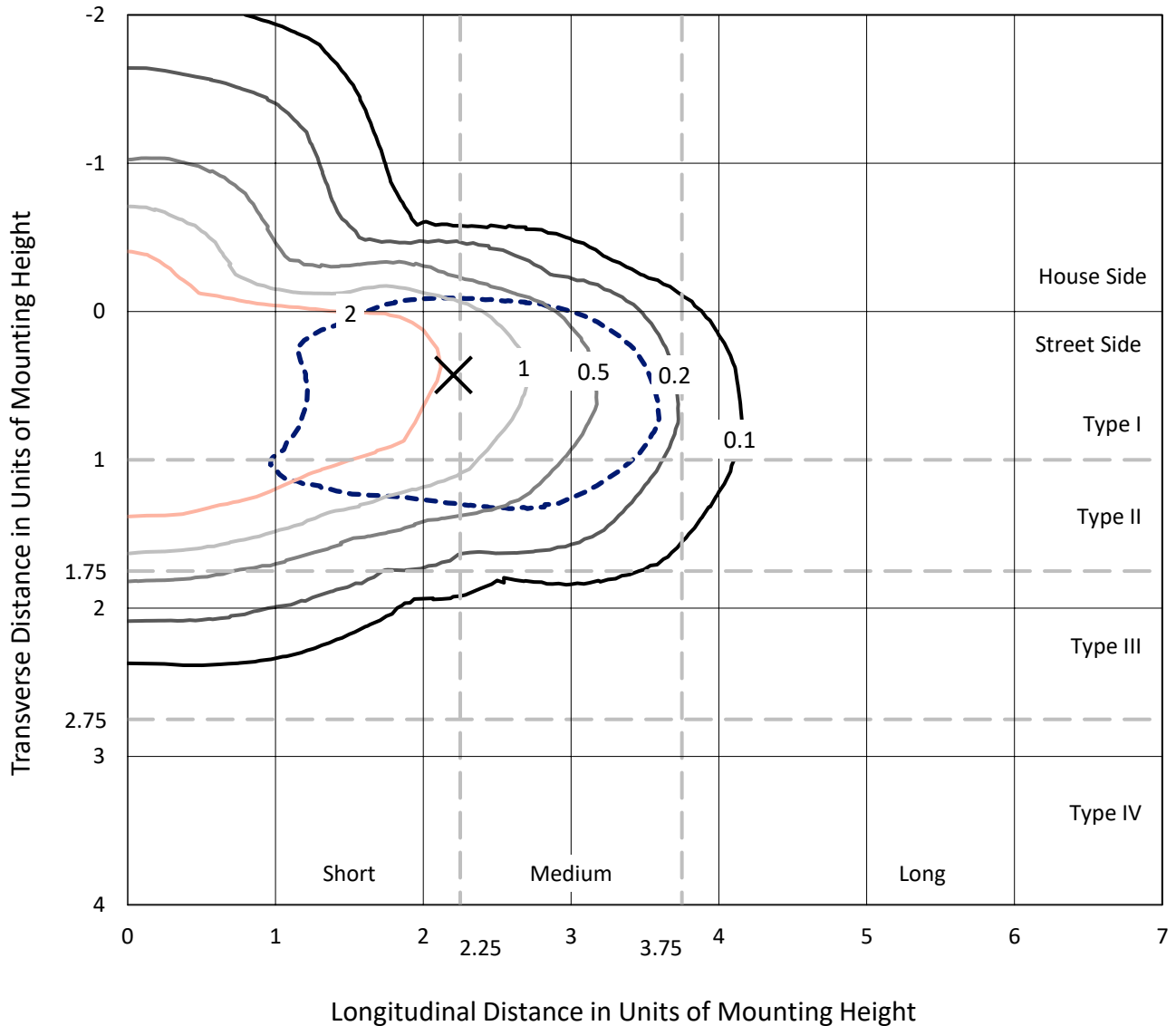
Lumens per Lamp: N/A  
Luminaire Lumens: 17112.3 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

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

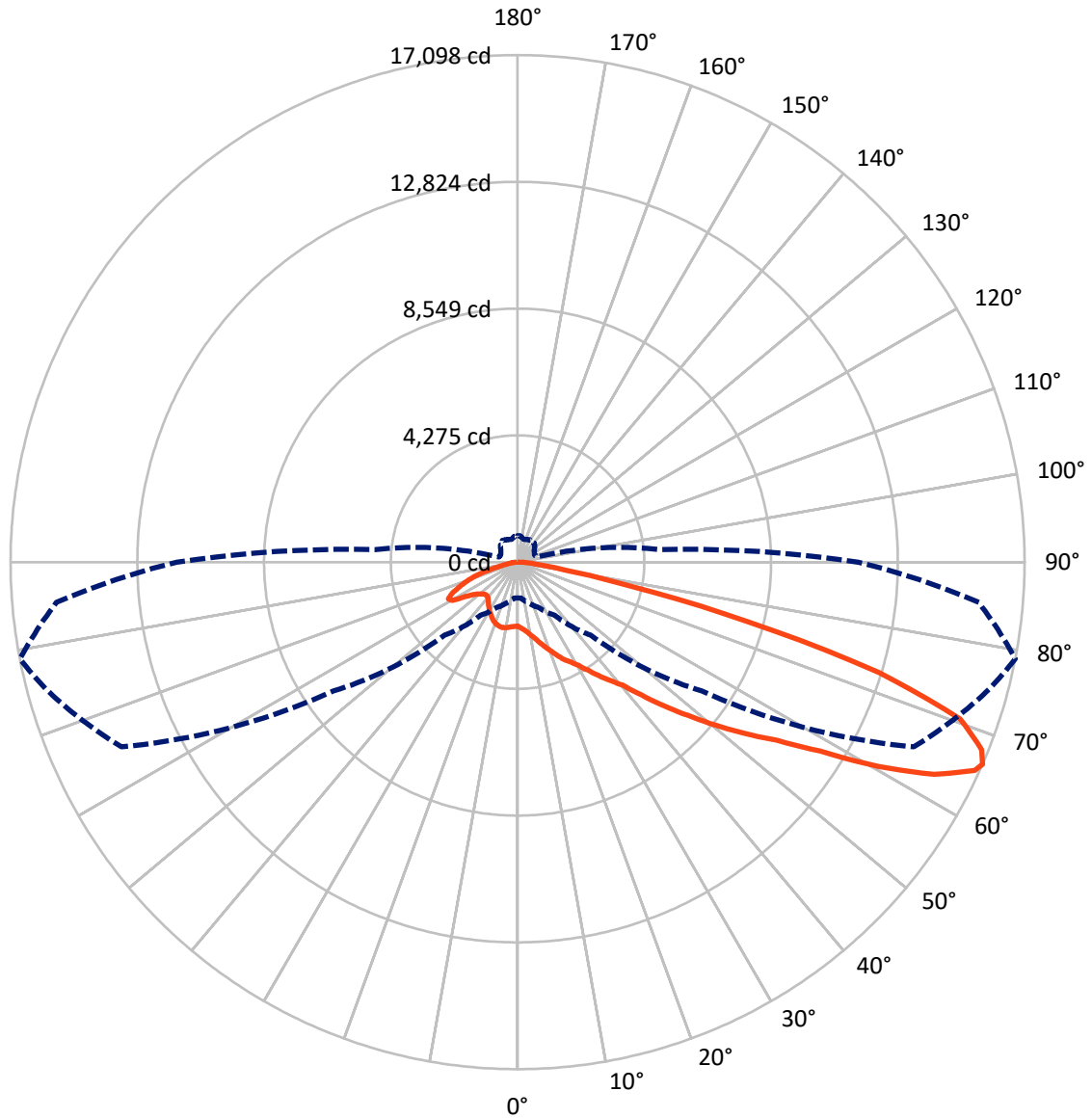
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3455.6	0.0	3455.6
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	13656.7	0.0	13656.7
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	17112.3	0.0	17112.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.5	1.2
10°-20°	656.1	3.8
20°-30°	1126.2	6.6
30°-40°	1739.8	10.2
40°-50°	2786.7	16.3
50°-60°	4160.7	24.3
60°-70°	4275.2	25.0
70°-80°	1895.1	11.1
80°-90°	260.0	1.5
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°	17112.3	100.0
0°-180°	17112.3	100.0

**Coefficient of Utilization**



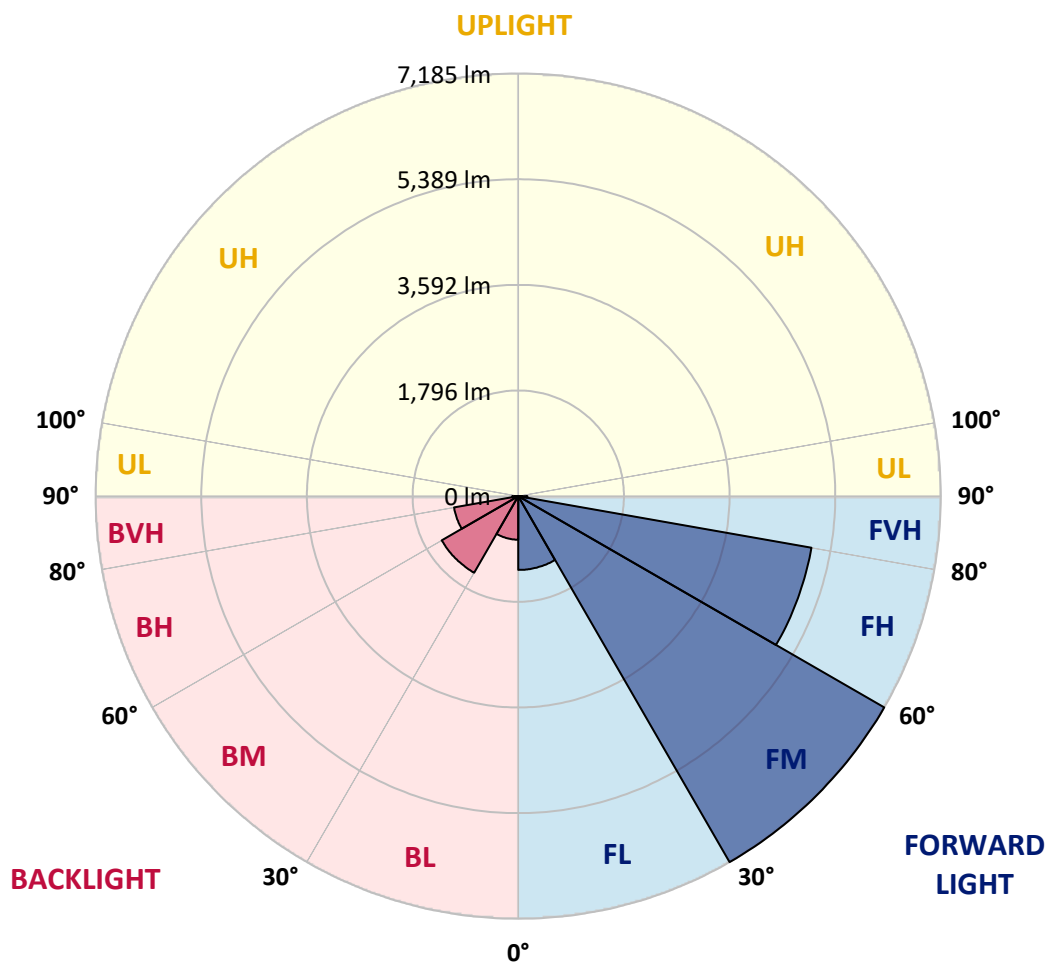
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1254.4	7.3			
FM (30°-60°)	7184.9	42.0			
FH (60°-80°)	5061.4	29.6			G3/7500
FVH (80°-90°)	156.0	0.9			G2/225
BL (0°-30°)	740.4	4.3	B2/1000		
BM (30°-60°)	1502.3	8.8	B2/2500		
BH (60°-80°)	1108.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	104.1	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8
2.5°	2298.2	2300.1	2300.1	2292.6	2294.4	2300.1	2279.4	2234.2	2234.2	2226.7	2213.5
5°	2439.4	2430.0	2416.8	2418.7	2411.1	2411.1	2388.6	2345.3	2307.6	2292.6	2253.0
7.5°	2458.2	2467.6	2465.7	2488.3	2499.6	2499.6	2510.9	2475.1	2418.7	2382.9	2343.4
10°	2495.8	2471.4	2469.5	2522.2	2539.1	2578.7	2623.8	2605.0	2558.0	2507.1	2454.4
12.5°	2518.4	2533.5	2533.5	2559.8	2599.4	2657.7	2736.8	2772.5	2699.1	2646.4	2565.5
15°	2552.3	2531.6	2591.8	2614.4	2689.7	2731.1	2844.1	2936.3	2887.4	2823.4	2695.4
17.5°	2567.4	2554.2	2588.1	2629.5	2757.5	2819.6	2957.0	3085.0	3043.6	3002.2	2870.4
20°	2644.5	2642.7	2657.7	2691.6	2783.8	2906.2	3077.5	3254.4	3269.4	3194.2	3015.3
22.5°	2832.8	2808.3	2808.3	2795.1	2834.7	2960.8	3192.3	3437.0	3504.7	3416.3	3179.1
25°	3005.9	3039.8	3019.1	2958.9	2943.8	3009.7	3275.1	3630.8	3721.2	3638.4	3401.2
27.5°	3228.0	3239.3	3275.1	3194.2	3090.6	3111.3	3365.4	3740.0	3926.3	3815.3	3527.3
30°	3548.0	3527.3	3519.8	3429.4	3293.9	3265.7	3469.0	3900.0	4195.5	4039.3	3676.0
32.5°	3764.5	3815.3	3813.4	3689.2	3525.4	3463.3	3597.0	4050.6	4483.5	4338.6	3950.8
35°	4193.6	4246.3	4204.9	4022.3	3830.4	3706.1	3781.4	4246.3	4812.9	4699.9	4184.2
37.5°	4741.4	4865.6	4777.1	4440.2	4169.2	4033.6	4037.4	4459.0	5149.8	5057.6	4434.6
40°	5119.7	5287.2	5164.9	4848.6	4560.7	4432.7	4381.9	4711.2	5552.6	5454.7	4826.1
42.5°	5588.4	5727.7	5663.7	5351.2	5014.3	4905.1	4803.5	5132.9	6168.1	6122.9	5328.6
45°	6100.3	6166.2	6145.5	5947.9	5573.3	5535.7	5311.7	5688.1	6892.8	6911.6	5957.3
47.5°	6576.5	6612.3	6651.8	6508.8	6275.4	6307.4	5897.1	6282.9	7596.7	7720.9	6657.5
50°	6698.9	6821.2	6913.5	7009.5	7060.3	7276.7	6542.7	7013.2	8406.1	8647.0	7436.7
52.5°	6574.7	6565.2	6845.7	7146.9	7655.1	8108.7	7421.7	7920.5	9121.3	9597.5	8150.1
55°	6010.0	5991.2	6442.9	6841.9	7833.9	8571.7	8677.1	9128.9	9985.3	10604.5	9115.7
57.5°	5021.8	4905.1	5398.3	6053.3	7446.1	8622.5	9938.2	10922.6	11314.1	12020.0	10589.5
60°	3374.9	3325.9	3798.4	4579.5	6045.7	7901.6	10693.0	13168.1	13187.0	13981.3	12876.4
62.5°	2078.0	2087.4	2390.4	2975.8	4233.2	6264.1	10367.4	14961.9	14965.7	15761.9	14758.6
65°	1359.0	1364.6	1609.3	1933.1	2644.5	4248.2	8573.6	15103.1	16202.3	16942.0	15620.7
66°	1210.3	1212.2	1423.0	1686.5	2190.9	3476.5	7572.2	14736.0	16480.9	17098.3	15609.4
67.5°	1020.2	1044.6	1214.0	1417.3	1709.1	2497.7	6008.1	13674.5	16337.8	16879.9	15255.5
70°	798.1	811.2	944.9	1151.9	1281.8	1445.6	3570.6	11146.6	14954.4	15833.4	13968.1
72.5°	640.0	651.3	752.9	935.5	1040.9	952.4	1944.4	8088.0	11812.9	12750.3	10986.6
75°	540.2	542.1	591.0	736.0	856.4	715.3	1035.2	5191.2	7579.8	8016.5	6730.9
77.5°	436.7	444.2	478.1	560.9	688.9	562.8	617.4	2908.1	3805.9	3837.9	3111.3
80°	355.7	359.5	380.2	408.4	525.1	416.0	417.9	1419.2	1631.9	1594.3	1264.9
82.5°	280.5	284.2	308.7	303.0	385.9	297.4	259.7	683.3	751.0	736.0	581.6
85°	158.1	158.1	242.8	242.8	244.7	188.2	158.1	321.9	397.2	370.8	272.9
87.5°	50.8	52.7	73.4	77.2	122.3	84.7	77.2	120.5	188.2	165.6	97.9
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°	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8	2160.8
2.5°	2206.0	2175.9	2162.7	2119.4	2108.1	2079.9	2066.7	2049.8	2044.1	2019.6	2042.2
5°	2222.9	2213.5	2160.8	2106.2	2064.8	2046.0	2017.8	1980.1	1976.4	1942.5	1938.7
7.5°	2294.4	2262.5	2170.2	2111.9	2029.1	1982.0	1919.9	1901.1	1876.6	1865.3	1889.8
10°	2405.5	2324.6	2187.2	2040.3	1938.7	1882.2	1837.1	1823.9	1825.8	1818.2	1806.9
12.5°	2484.6	2407.4	2158.9	1980.1	1848.4	1793.8	1790.0	1803.2	1823.9	1814.5	1827.7
15°	2597.5	2452.6	2138.2	1880.4	1775.0	1759.9	1758.0	1797.5	1795.7	1795.7	1793.8
17.5°	2702.9	2497.7	2062.9	1793.8	1697.8	1709.1	1722.2	1720.4	1739.2	1746.7	1759.9
20°	2836.5	2550.4	1957.5	1707.2	1639.4	1635.7	1633.8	1635.7	1654.5	1665.8	1656.4
22.5°	2953.2	2561.7	1869.1	1624.4	1569.8	1554.7	1530.3	1554.7	1545.3	1549.1	1560.4
25°	3054.9	2563.6	1743.0	1562.3	1500.1	1466.3	1447.4	1445.6	1428.6	1426.7	1426.7
27.5°	3139.6	2499.6	1631.9	1475.7	1417.3	1385.3	1383.4	1362.7	1319.4	1291.2	1295.0
30°	3205.5	2450.7	1554.7	1400.4	1343.9	1338.3	1321.3	1274.3	1217.8	1182.0	1182.0
32.5°	3322.2	2352.8	1449.3	1323.2	1295.0	1287.5	1247.9	1206.5	1153.8	1119.9	1114.3
35°	3408.7	2262.5	1379.7	1257.3	1244.2	1229.1	1195.2	1150.0	1135.0	1127.5	1133.1
37.5°	3506.6	2160.8	1295.0	1200.9	1214.0	1185.8	1146.3	1125.6	1178.3	1165.1	1170.8
40°	3662.8	2089.3	1212.2	1167.0	1180.2	1148.2	1097.3	1089.8	1155.7	1108.6	1097.3
42.5°	3948.9	2087.4	1161.3	1116.2	1125.6	1101.1	1055.9	1052.2	1078.5	1022.1	1005.1
45°	4304.7	2153.3	1123.7	1078.5	1071.0	1067.2	1052.2	1035.2	1012.6	939.2	920.4
47.5°	4730.1	2260.6	1116.2	1022.1	1031.5	1063.5	1044.6	1001.4	943.0	895.9	886.5
50°	5245.8	2482.7	1097.3	980.6	997.6	1048.4	1033.3	973.1	920.4	890.3	884.7
52.5°	5816.1	2763.1	1072.9	916.7	954.3	1035.2	1042.8	986.3	909.1	882.8	879.0
55°	6488.1	3177.2	1044.6	847.0	903.5	1022.1	1042.8	948.6	894.1	894.1	890.3
57.5°	7815.1	3922.6	986.3	783.0	858.3	997.6	1012.6	950.5	895.9	895.9	888.4
60°	9761.3	5085.8	875.2	734.1	815.0	963.7	990.1	922.3	875.2	886.5	884.7
62.5°	11284.0	5439.7	781.1	687.0	771.7	901.6	959.9	892.2	850.8	892.2	895.9
65°	11609.6	5082.0	685.1	636.2	711.5	841.4	916.7	848.9	815.0	895.9	899.7
66°	11492.9	4803.5	651.3	621.1	685.1	811.2	890.3	833.8	796.2	892.2	894.1
67.5°	10973.4	4385.6	613.6	589.1	649.4	768.0	860.2	813.1	766.1	880.9	863.9
70°	9844.1	3719.3	549.6	532.7	598.6	696.4	790.5	760.4	719.0	811.2	781.1
72.5°	7581.7	2972.1	481.9	483.7	540.2	623.0	720.9	700.2	664.4	711.5	692.7
75°	4617.1	1899.2	419.7	423.5	470.6	553.4	655.0	640.0	596.7	623.0	613.6
77.5°	2046.0	941.1	353.9	361.4	399.0	487.5	570.3	545.8	500.7	506.3	502.6
80°	794.3	446.1	288.0	297.4	321.9	389.6	472.4	449.9	410.3	402.8	399.0
82.5°	382.1	248.5	222.1	225.9	235.3	310.6	406.6	378.3	325.6	291.7	291.7
85°	192.0	154.3	156.2	143.1	156.2	210.8	274.8	229.6	190.1	169.4	173.2
87.5°	77.2	77.2	77.2	65.9	69.6	99.8	128.0	86.6	79.1	47.1	47.1
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)