

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: P478041

Luminaire Tested: **IFLD-S-SA3C-727-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478041  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-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**

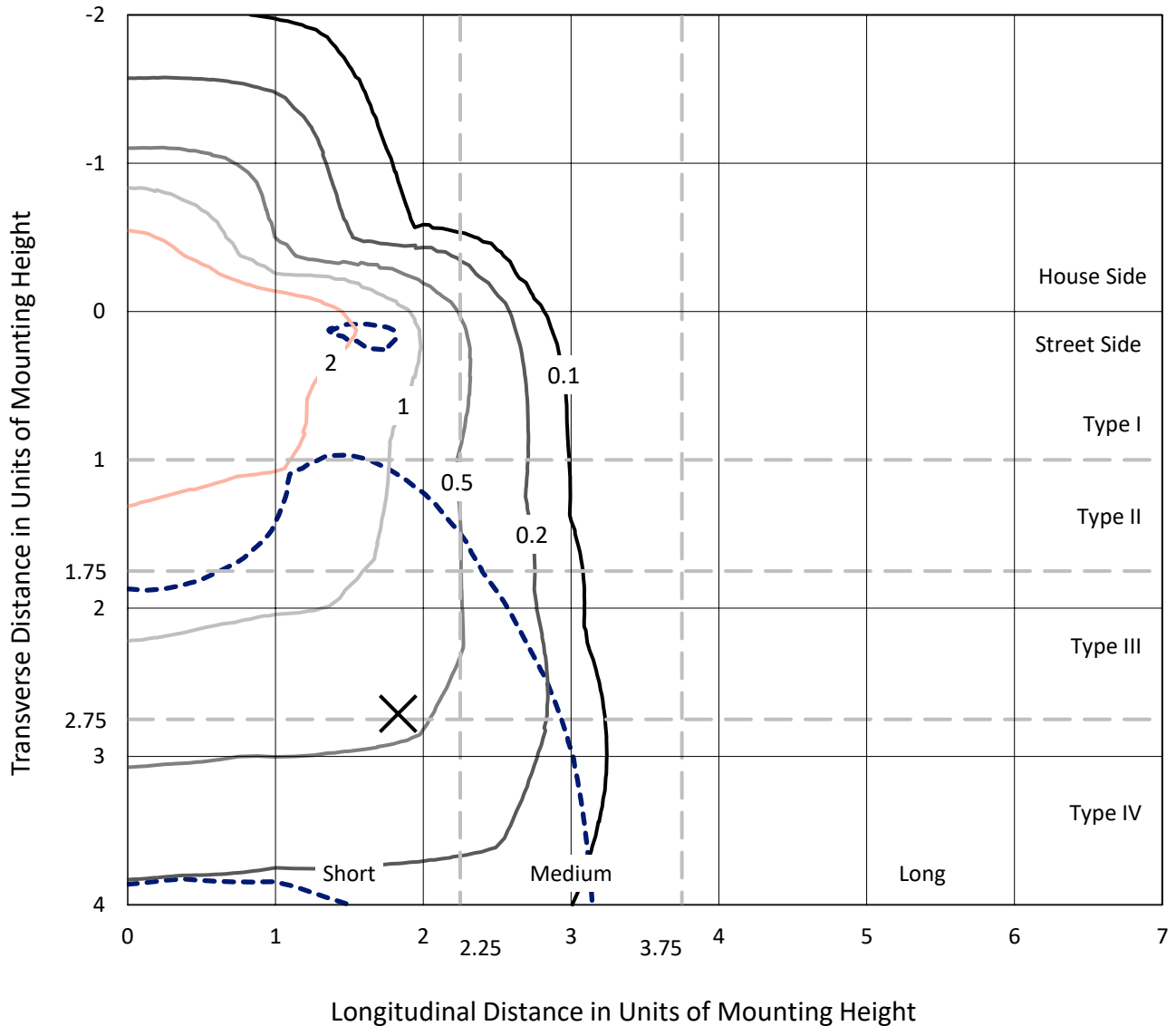
Lumens per Lamp: N/A  
Luminaire Lumens: 18148.3 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.8  
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

REPORT NUMBER: P478041  
 CATALOG NUMBER: IFLD-S-SA3C-727-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

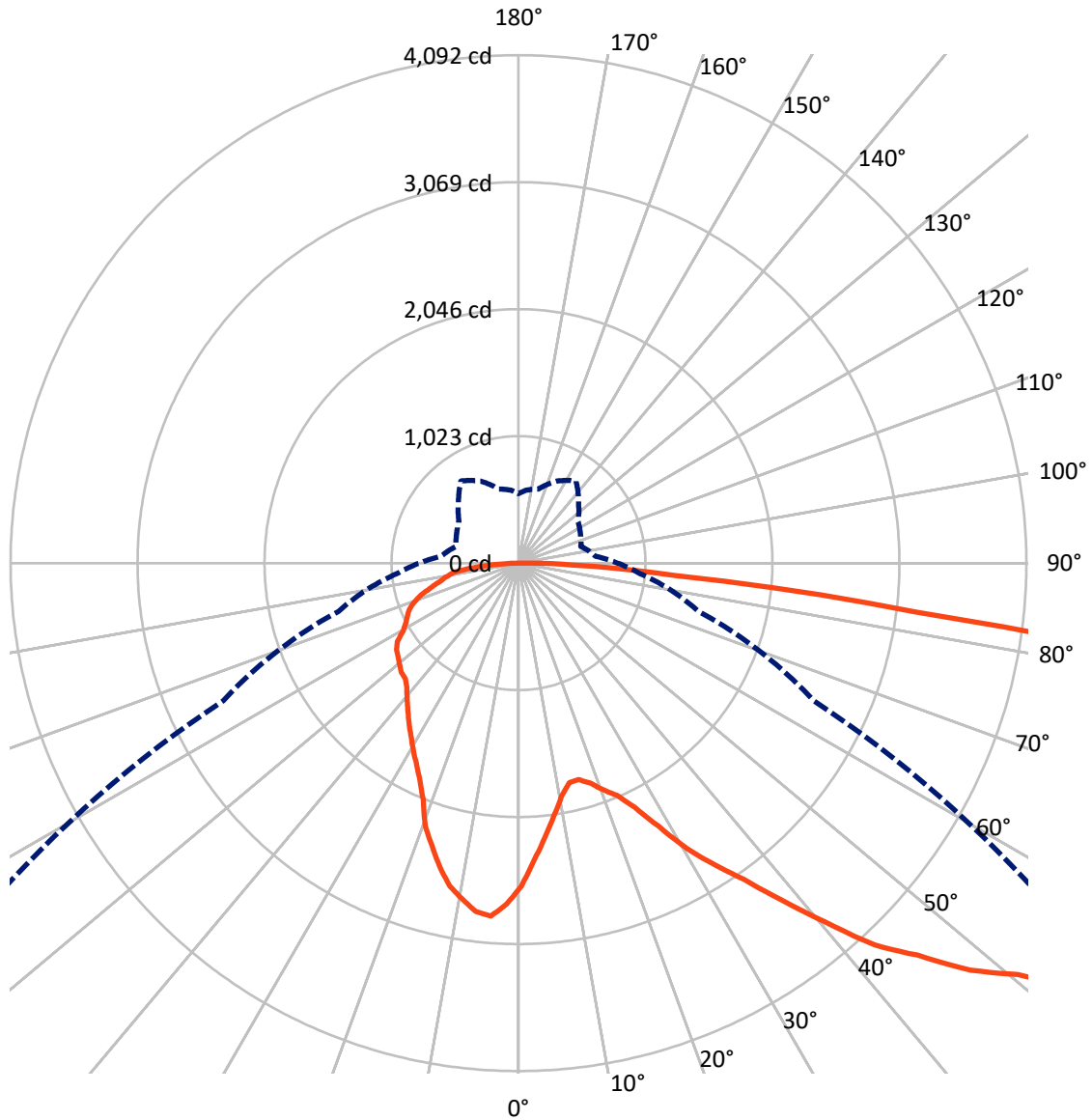
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

REPORT NUMBER: P478041  
CATALOG NUMBER: IFLD-S-SA3C-727-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P478041  
 CATALOG NUMBER: IFLD-S-SA3C-727-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3920.3	0.0	3920.3
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	14228.1	0.0	14228.1
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	18148.3	0.0	18148.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.1	1.3
10°-20°	672.0	3.7
20°-30°	1106.1	6.1
30°-40°	1654.1	9.1
40°-50°	2452.2	13.5
50°-60°	3533.9	19.5
60°-70°	4509.7	24.8
70°-80°	3509.3	19.3
80°-90°	470.8	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°	18148.3	100.0
0°-180°	18148.3	100.0

**Coefficient of Utilization**



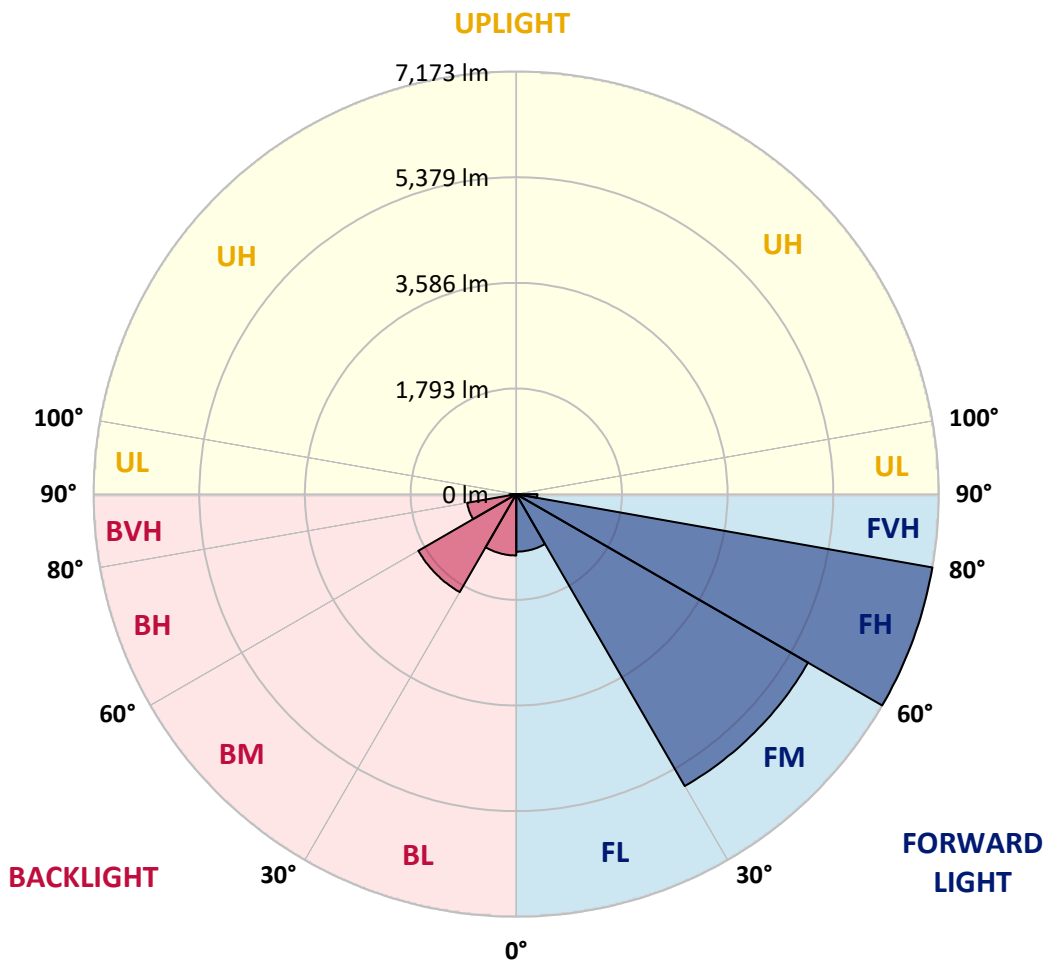
REPORT NUMBER: P478041  
 CATALOG NUMBER: IFLD-S-SA3C-727-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	976.7	5.4			
FM (30°-60°)	5720.5	31.5			
FH (60°-80°)	7172.6	39.5			G3/7500
FVH (80°-90°)	358.4	2.0			G3/500
BL (0°-30°)	1041.6	5.7	B3/2500		
BM (30°-60°)	1919.8	10.6	B2/2500		
BH (60°-80°)	846.5	4.7	B2/1000		G2/1000
BVH (80°-90°)	112.4	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





REPORT NUMBER: P478041  
 CATALOG NUMBER: IFLD-S-SA3C-727-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2601.8	2601.8	2601.8	2601.8	2601.8	2601.8	2601.8	2601.8	2601.8	2601.8	2601.8
2.5°	2331.3	2339.0	2363.9	2369.7	2396.5	2381.2	2413.8	2471.4	2504.0	2552.0	2609.5
5°	2147.1	2114.5	2129.8	2189.3	2220.0	2227.7	2262.2	2360.1	2421.5	2492.5	2599.9
7.5°	1930.3	1924.5	1955.2	1993.6	2055.0	2060.8	2137.5	2223.9	2350.5	2507.8	2634.5
10°	1782.5	1807.5	1824.7	1865.0	1907.3	1907.3	2005.1	2154.8	2298.7	2450.3	2642.1
12.5°	1774.9	1759.5	1763.3	1784.5	1815.2	1853.5	1945.6	2079.9	2262.2	2438.8	2674.8
15°	1799.8	1805.6	1771.0	1797.9	1809.4	1822.8	1924.5	2076.1	2239.2	2479.0	2730.4
17.5°	1932.2	1899.6	1845.9	1820.9	1861.2	1861.2	1930.3	2049.2	2243.0	2500.2	2811.0
20°	2035.8	2035.8	1947.5	1920.7	1949.5	1943.7	1991.7	2079.9	2262.2	2542.4	2901.2
22.5°	2210.4	2235.4	2089.5	2033.9	2032.0	2047.3	2089.5	2164.4	2316.0	2601.8	2987.5
25°	2461.8	2467.5	2298.7	2241.1	2179.7	2204.7	2212.3	2287.2	2363.9	2670.9	3085.4
27.5°	2741.9	2738.1	2582.7	2438.8	2398.5	2404.2	2362.0	2411.9	2434.9	2692.0	3225.4
30°	3052.8	3018.2	2901.2	2697.8	2665.2	2628.7	2536.6	2534.7	2582.7	2811.0	3419.2
32.5°	3256.1	3212.0	3131.4	2985.6	2895.4	2899.3	2753.4	2751.5	2709.3	2941.5	3588.1
35°	3455.7	3388.5	3367.4	3217.8	3127.6	3137.2	3020.1	3004.8	2928.0	3139.1	3866.3
37.5°	3695.5	3636.1	3668.7	3555.5	3444.2	3398.1	3344.4	3325.2	3225.4	3417.3	4246.2
40°	3960.3	3941.1	3920.0	3864.4	3797.2	3801.1	3743.5	3724.3	3576.6	3753.1	4610.8
42.5°	4317.2	4244.3	4134.9	4171.4	4205.9	4242.4	4223.2	4173.3	4019.8	4094.7	5017.6
45°	4649.2	4553.2	4351.8	4363.3	4505.3	4534.0	4766.2	4760.5	4451.5	4528.3	5480.0
47.5°	4873.7	4829.5	4708.7	4695.2	4898.6	4896.7	5315.0	5315.0	4906.3	4960.0	5977.0
50°	5207.5	5092.4	5040.6	5107.8	5211.4	5282.4	5875.3	5911.7	5353.4	5410.9	6627.4
52.5°	5599.0	5455.1	5324.6	5497.3	5681.5	5727.5	6429.8	6414.4	5696.8	5934.8	7389.2
55°	5923.2	5850.3	5760.1	5859.9	6161.2	6218.7	6986.2	6844.2	6040.3	6368.4	7755.7
57.5°	6301.2	6345.4	6364.6	6339.6	6698.4	6788.6	7621.3	7214.6	6335.8	6660.0	7970.6
60°	6871.1	6898.0	6922.9	6982.4	7362.3	7489.0	8124.1	7678.9	6521.9	6828.9	7987.8
62.5°	7738.4	7634.8	7690.4	7895.7	8200.8	8344.7	8864.7	8005.1	6663.9	6930.6	7423.7
65°	8730.4	8590.3	8532.8	8797.6	9588.1	9473.0	9789.6	8248.8	6458.6	6550.7	6295.5
67.5°	9735.8	9751.2	9603.4	10134.9	11103.9	11103.9	10649.2	8365.8	5902.1	5309.2	4415.1
70°	10534.0	10582.0	10662.6	11693.0	13228.0	13460.2	11714.1	7886.1	4768.1	3534.4	2413.8
72.5°	10522.5	10378.6	10791.2	12688.8	15158.3	14964.5	11936.7	6236.0	2976.0	1730.7	1107.1
73°	10286.5	10165.6	10616.5	12679.2	15236.9	15054.7	11773.6	5748.6	2624.9	1500.5	984.3
75°	8400.4	8181.6	8949.1	11483.8	14097.2	14237.3	10002.5	3749.3	1439.1	924.8	692.7
77.5°	3829.9	3925.8	4925.5	7703.9	10864.1	11029.1	6575.6	1621.4	788.6	648.5	510.4
80°	1229.9	1291.3	1916.8	3829.9	6809.7	7107.1	3039.3	736.8	562.2	497.0	381.8
82.5°	470.1	468.2	804.0	1592.6	3227.4	3417.3	1111.0	449.0	418.3	366.5	270.5
85°	165.0	172.7	303.2	629.4	1270.2	1329.7	385.7	249.4	289.7	245.6	155.4
87.5°	57.6	59.5	107.5	228.3	437.5	462.4	107.5	99.8	143.9	142.0	78.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478041  
 CATALOG NUMBER: IFLD-S-SA3C-727-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2601.8	2601.8	2601.8	2601.8	2601.8	2601.8	2601.8	2601.8	2601.8	2601.8	2601.8
2.5°	2628.7	2646.0	2651.7	2720.8	2720.8	2720.8	2747.7	2747.7	2740.0	2720.8	2766.9
5°	2640.2	2670.9	2730.4	2789.9	2805.2	2818.7	2855.1	2824.4	2835.9	2816.8	2834.0
7.5°	2672.8	2715.1	2826.3	2862.8	2837.9	2866.6	2828.3	2807.2	2786.1	2793.7	2766.9
10°	2728.5	2782.2	2834.0	2901.2	2853.2	2824.4	2745.8	2726.6	2659.4	2636.4	2657.5
12.5°	2797.6	2862.8	2951.1	2926.1	2834.0	2751.5	2667.1	2586.5	2546.2	2488.6	2504.0
15°	2866.6	2941.5	2954.9	2912.7	2797.6	2694.0	2540.4	2427.2	2386.9	2335.1	2362.0
17.5°	2941.5	3012.5	2989.4	2880.1	2724.7	2567.3	2392.7	2281.4	2197.0	2164.4	2164.4
20°	3052.8	3087.3	3050.8	2826.3	2636.4	2429.2	2260.3	2133.7	2049.2	2035.8	2014.7
22.5°	3139.1	3194.7	3031.7	2747.7	2507.8	2248.8	2055.0	2007.0	1982.1	1961.0	1934.1
25°	3250.4	3248.5	2997.1	2674.8	2287.2	2033.9	1916.8	1913.0	1901.5	1893.8	1930.3
27.5°	3355.9	3311.8	2956.8	2494.4	2058.8	1870.8	1807.5	1849.7	1867.0	1855.4	1870.8
30°	3522.9	3449.9	2899.3	2302.5	1857.4	1705.8	1717.3	1774.9	1803.6	1820.9	1797.9
32.5°	3699.4	3588.1	2780.3	2103.0	1678.9	1602.2	1629.0	1688.5	1723.1	1742.2	1763.3
35°	3954.6	3695.5	2659.4	1842.0	1550.4	1538.9	1554.2	1586.8	1636.7	1650.1	1655.9
37.5°	4269.3	3858.6	2496.3	1632.9	1450.6	1464.0	1479.4	1490.9	1492.8	1517.7	1508.2
40°	4583.9	3996.8	2258.4	1433.3	1347.0	1419.9	1412.2	1391.1	1373.8	1350.8	1345.1
42.5°	4860.2	4117.7	1993.6	1264.5	1254.9	1373.8	1348.9	1295.2	1254.9	1237.6	1208.8
45°	5171.1	4288.4	1726.9	1158.9	1183.9	1318.2	1310.5	1228.0	1176.2	1114.8	1107.1
47.5°	5574.0	4466.9	1471.7	1049.6	1116.7	1297.1	1300.9	1195.4	1120.6	1038.1	1026.5
50°	6090.2	4724.0	1277.9	1003.5	1076.4	1266.4	1272.1	1151.3	1053.4	969.0	961.3
52.5°	6585.2	4986.9	1116.7	932.5	1049.6	1229.9	1243.4	1111.0	997.8	892.2	898.0
55°	6834.7	4890.9	978.6	880.7	988.2	1170.4	1220.3	1082.2	913.3	840.4	838.5
57.5°	6890.3	4654.9	869.2	827.0	936.4	1107.1	1182.0	995.8	875.0	813.6	805.9
60°	6708.0	4242.4	782.9	769.4	871.1	1041.9	1093.7	949.8	836.6	786.7	775.2
62.5°	6259.0	3814.5	723.4	742.6	815.5	970.9	1038.1	917.2	800.1	765.6	740.6
65°	5132.7	3137.2	675.4	690.8	757.9	901.8	1003.5	880.7	767.5	734.9	733.0
67.5°	3555.5	2162.5	637.0	665.8	711.9	851.9	969.0	840.4	725.3	713.8	698.4
70°	1820.9	1153.2	587.1	610.2	662.0	788.6	907.6	798.2	681.2	679.2	660.1
72.5°	922.9	675.4	529.6	564.1	600.6	706.1	830.8	742.6	625.5	604.4	573.7
73°	798.2	625.5	520.0	550.7	585.2	683.1	807.8	729.1	617.8	587.1	558.4
75°	581.4	493.1	466.3	497.0	523.8	615.9	731.1	667.7	568.0	535.3	508.5
77.5°	435.6	379.9	387.6	422.1	445.2	531.5	650.5	604.4	514.2	470.1	458.6
80°	320.4	289.7	320.4	353.1	370.3	468.2	592.9	523.8	433.6	383.8	374.2
82.5°	228.3	211.1	247.5	268.6	276.3	387.6	533.4	418.3	328.1	262.9	241.8
85°	130.5	128.6	166.9	165.0	170.8	226.4	351.1	278.2	211.1	161.2	157.3
87.5°	57.6	63.3	84.4	67.2	71.0	107.5	149.7	103.6	86.3	48.0	36.5
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)