

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: P478038

Luminaire Tested: **IFLD-S-SA2E-727-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478038  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-727-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

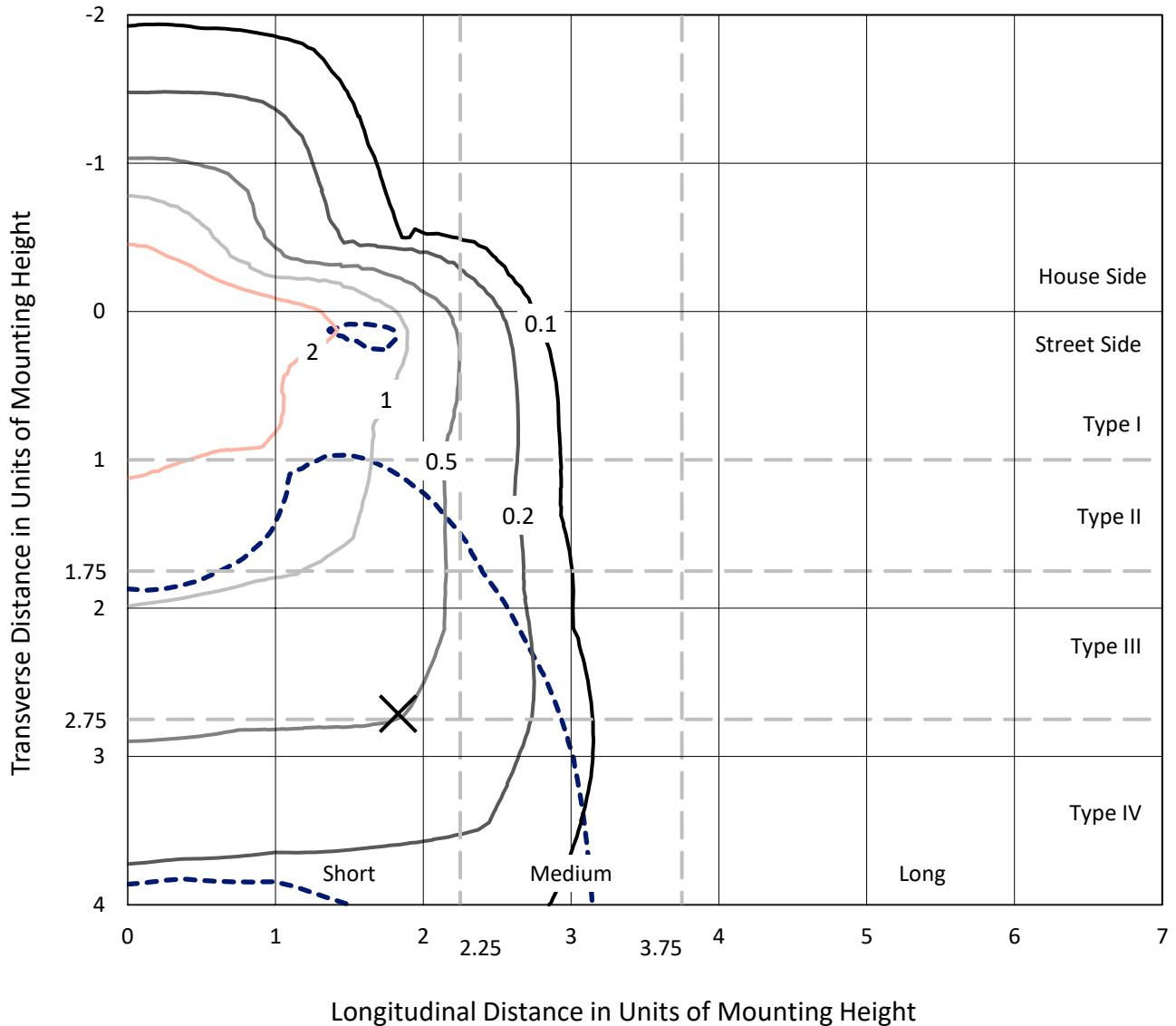
Lumens per Lamp: N/A  
Luminaire Lumens: 15507.2 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.2  
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

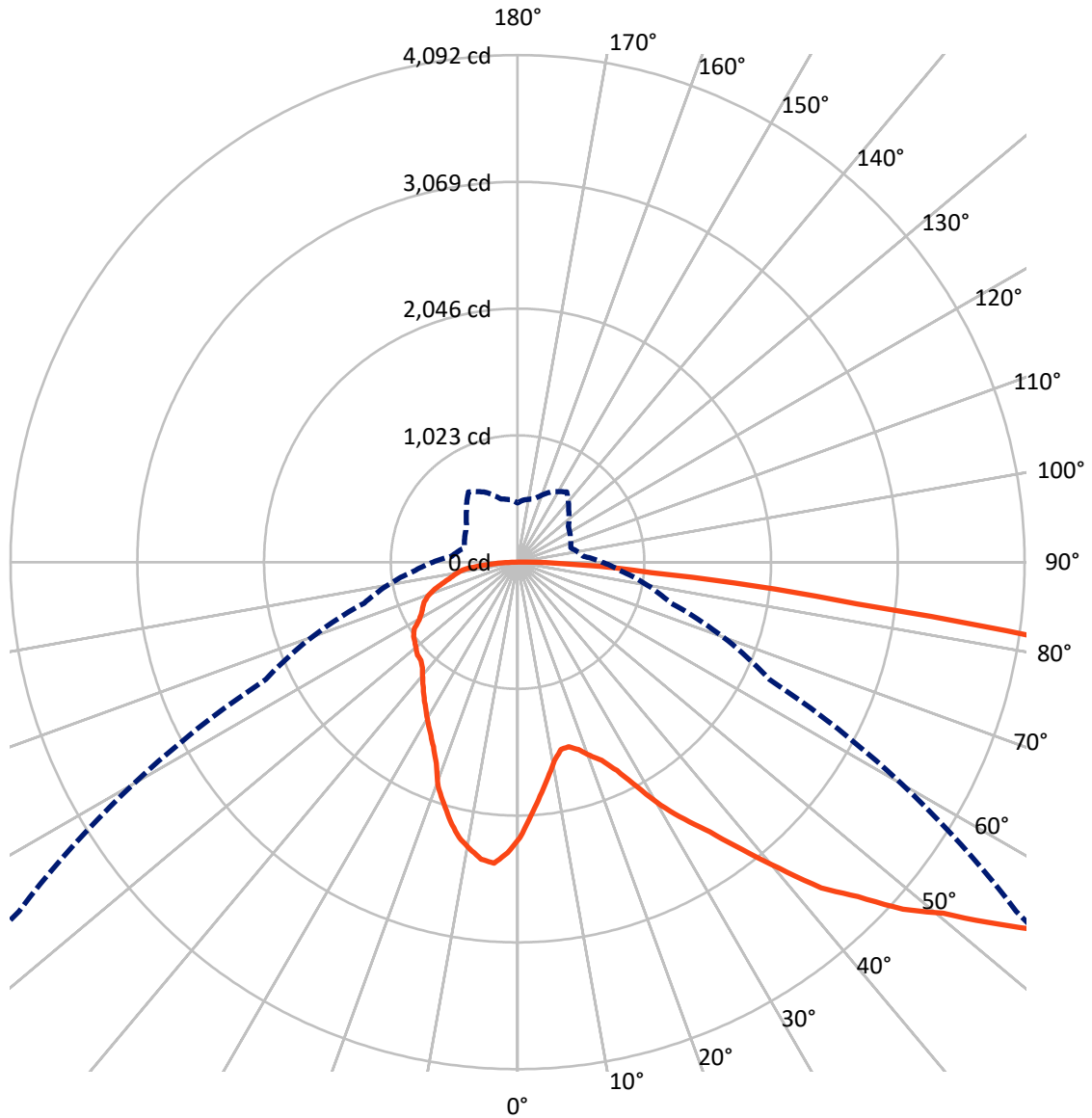
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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
<b>House Side</b>	Lumens	3349.7	0.0	3349.7
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	12157.5	0.0	12157.5
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	15507.2	0.0	15507.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.2	1.3
10°-20°	574.2	3.7
20°-30°	945.1	6.1
30°-40°	1413.4	9.1
40°-50°	2095.3	13.5
50°-60°	3019.6	19.5
60°-70°	3853.4	24.8
70°-80°	2998.6	19.3
80°-90°	402.3	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°	15507.2	100.0
0°-180°	15507.2	100.0

**Coefficient of Utilization**



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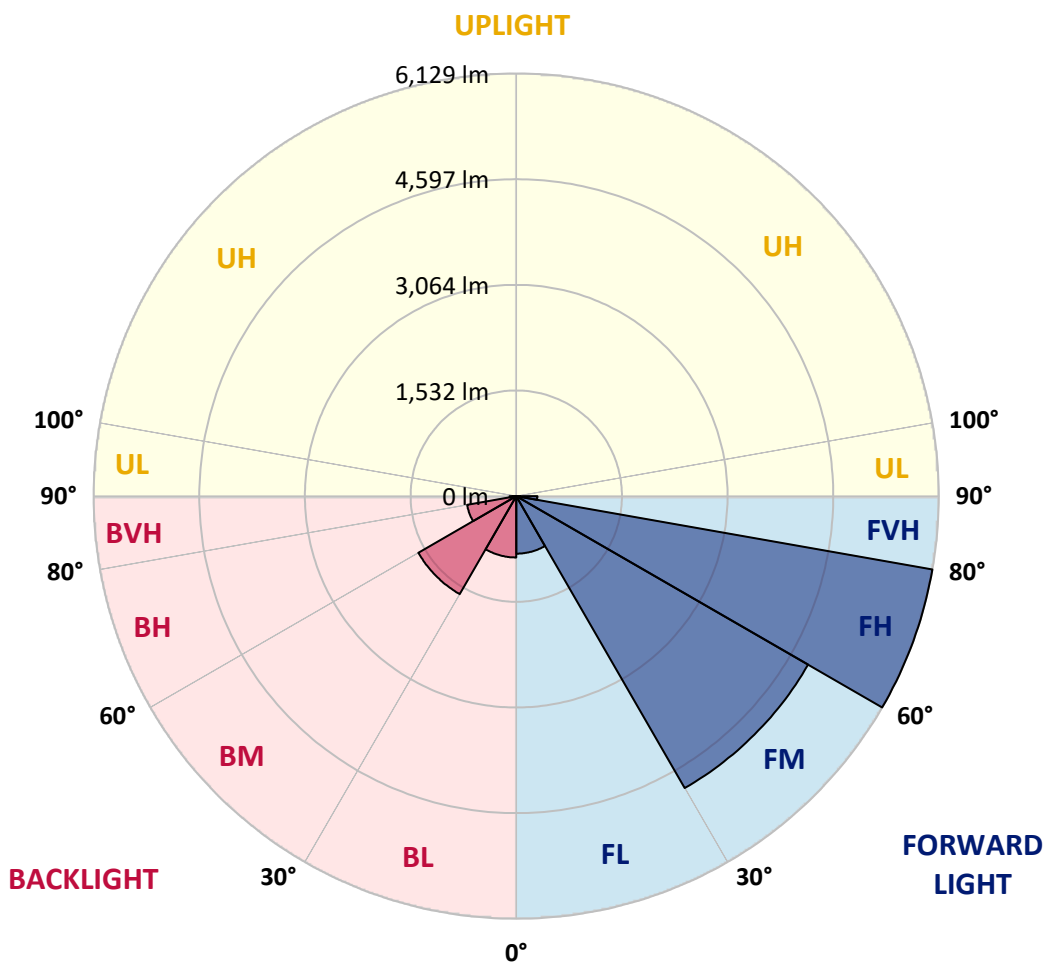
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	834.6	5.4			
FM (30°-60°)	4888.0	31.5			
FH (60°-80°)	6128.7	39.5			G3/7500
FVH (80°-90°)	306.2	2.0			G3/500
BL (0°-30°)	890.0	5.7	B2/1000		
BM (30°-60°)	1640.4	10.6	B2/2500		
BH (60°-80°)	723.3	4.7	B2/1000		G2/1000
BVH (80°-90°)	96.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2223.2	2223.2	2223.2	2223.2	2223.2	2223.2	2223.2	2223.2	2223.2	2223.2	2223.2
2.5°	1992.0	1998.6	2019.9	2024.8	2047.8	2034.7	2062.5	2111.7	2139.6	2180.6	2229.8
5°	1834.6	1806.8	1819.9	1870.7	1896.9	1903.5	1933.0	2016.6	2069.1	2129.7	2221.6
7.5°	1649.4	1644.4	1670.7	1703.5	1755.9	1760.9	1826.4	1900.2	2008.4	2142.9	2251.1
10°	1523.1	1544.4	1559.2	1593.6	1629.7	1629.7	1713.3	1841.2	1964.2	2093.7	2257.6
12.5°	1516.6	1503.4	1506.7	1524.8	1551.0	1583.8	1662.5	1777.3	1933.0	2083.8	2285.5
15°	1537.9	1542.8	1513.3	1536.2	1546.1	1557.6	1644.4	1774.0	1913.3	2118.3	2333.1
17.5°	1651.0	1623.1	1577.2	1555.9	1590.3	1590.3	1649.4	1751.0	1916.6	2136.3	2401.9
20°	1739.5	1739.5	1664.1	1641.2	1665.8	1660.8	1701.8	1777.3	1933.0	2172.4	2479.0
22.5°	1888.7	1910.1	1785.4	1737.9	1736.3	1749.4	1785.4	1849.4	1978.9	2223.2	2552.7
25°	2103.5	2108.4	1964.2	1915.0	1862.5	1883.8	1890.4	1954.3	2019.9	2282.2	2636.4
27.5°	2342.9	2339.6	2206.8	2083.8	2049.4	2054.3	2018.3	2060.9	2080.6	2300.3	2756.0
30°	2608.5	2579.0	2479.0	2305.2	2277.3	2246.2	2167.5	2165.8	2206.8	2401.9	2921.6
32.5°	2782.3	2744.6	2675.7	2551.1	2474.1	2477.3	2352.7	2351.1	2315.0	2513.4	3065.9
35°	2952.8	2895.4	2877.4	2749.5	2672.4	2680.6	2580.6	2567.5	2501.9	2682.3	3303.7
37.5°	3157.7	3106.9	3134.8	3038.0	2943.0	2903.6	2857.7	2841.3	2756.0	2920.0	3628.3
40°	3384.0	3367.6	3349.6	3302.0	3244.6	3247.9	3198.7	3182.3	3056.1	3206.9	3939.8
42.5°	3688.9	3626.6	3533.2	3564.3	3593.8	3625.0	3608.6	3566.0	3434.8	3498.8	4287.4
45°	3972.6	3890.6	3718.5	3728.3	3849.6	3874.2	4072.6	4067.7	3803.7	3869.3	4682.5
47.5°	4164.4	4126.7	4023.4	4011.9	4185.7	4184.1	4541.5	4541.5	4192.3	4238.2	5107.1
50°	4449.7	4351.3	4307.0	4364.4	4453.0	4513.6	5020.2	5051.4	4574.3	4623.5	5662.9
52.5°	4784.1	4661.2	4549.7	4697.3	4854.6	4894.0	5494.1	5480.9	4867.8	5071.1	6313.8
55°	5061.2	4998.9	4921.9	5007.1	5264.5	5313.7	5969.5	5848.2	5161.2	5441.6	6627.0
57.5°	5384.2	5421.9	5438.3	5417.0	5723.6	5800.7	6512.2	6164.6	5413.7	5690.8	6810.6
60°	5871.2	5894.1	5915.4	5966.2	6290.9	6399.1	6941.8	6561.4	5572.8	5835.1	6825.4
62.5°	6612.2	6523.7	6571.2	6746.7	7007.4	7130.3	7574.6	6840.1	5694.1	5922.0	6343.3
65°	7459.9	7340.2	7291.0	7517.2	8192.7	8094.4	8364.9	7048.3	5518.7	5597.4	5379.3
67.5°	8319.0	8332.1	8205.8	8660.0	9488.0	9488.0	9099.4	7148.4	5043.2	4536.6	3772.6
70°	9001.0	9042.0	9110.9	9991.3	11302.9	11501.3	10009.3	6738.5	4074.2	3020.0	2062.5
72.5°	8991.2	8868.2	9220.7	10842.2	12952.3	12786.7	10199.5	5328.5	2542.9	1478.9	946.0
73°	8789.5	8686.2	9071.5	10834.0	13019.5	12863.8	10060.2	4912.0	2242.9	1282.1	841.1
75°	7177.9	6991.0	7646.8	9812.6	12045.6	12165.3	8546.9	3203.6	1229.6	790.3	591.9
77.5°	3272.5	3354.5	4208.7	6582.7	9283.0	9424.0	5618.7	1385.4	673.8	554.2	436.1
80°	1050.9	1103.4	1637.9	3272.5	5818.7	6072.8	2597.0	629.6	480.4	424.6	326.3
82.5°	401.7	400.0	687.0	1360.8	2757.7	2920.0	949.3	383.7	357.4	313.2	231.2
85°	141.0	147.6	259.0	537.8	1085.4	1136.2	329.5	213.1	247.6	209.9	132.8
87.5°	49.2	50.8	91.8	195.1	373.8	395.1	91.8	85.3	123.0	121.3	67.2
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°	2223.2	2223.2	2223.2	2223.2	2223.2	2223.2	2223.2	2223.2	2223.2	2223.2	2223.2
2.5°	2246.2	2260.9	2265.8	2324.9	2324.9	2324.9	2347.8	2347.8	2341.2	2324.9	2364.2
5°	2256.0	2282.2	2333.1	2383.9	2397.0	2408.5	2439.6	2413.4	2423.2	2406.8	2421.6
7.5°	2283.9	2319.9	2415.0	2446.2	2424.9	2449.5	2416.7	2398.6	2380.6	2387.2	2364.2
10°	2331.4	2377.3	2421.6	2479.0	2438.0	2413.4	2346.2	2329.8	2272.4	2252.7	2270.7
12.5°	2390.4	2446.2	2521.6	2500.3	2421.6	2351.1	2278.9	2210.1	2175.7	2126.5	2139.6
15°	2449.5	2513.4	2524.9	2488.8	2390.4	2301.9	2170.7	2074.0	2039.6	1995.3	2018.3
17.5°	2513.4	2574.1	2554.4	2460.9	2328.1	2193.7	2044.5	1949.4	1877.3	1849.4	1849.4
20°	2608.5	2638.0	2606.9	2415.0	2252.7	2075.6	1931.4	1823.2	1751.0	1739.5	1721.5
22.5°	2682.3	2729.8	2590.5	2347.8	2142.9	1921.5	1755.9	1714.9	1693.6	1675.6	1652.6
25°	2777.4	2775.7	2560.9	2285.5	1954.3	1737.9	1637.9	1634.6	1624.8	1618.2	1649.4
27.5°	2867.5	2829.8	2526.5	2131.4	1759.2	1598.5	1544.4	1580.5	1595.3	1585.4	1598.5
30°	3010.2	2947.9	2477.3	1967.4	1587.1	1457.5	1467.4	1516.6	1541.2	1555.9	1536.2
32.5°	3161.0	3065.9	2375.7	1796.9	1434.6	1369.0	1392.0	1442.8	1472.3	1488.7	1506.7
35°	3379.1	3157.7	2272.4	1573.9	1324.7	1314.9	1328.0	1355.9	1398.5	1410.0	1414.9
37.5°	3648.0	3297.1	2133.0	1395.2	1239.5	1251.0	1264.1	1273.9	1275.6	1296.9	1288.7
40°	3916.8	3415.1	1929.7	1224.7	1151.0	1213.3	1206.7	1188.7	1173.9	1154.2	1149.3
42.5°	4152.9	3518.4	1703.5	1080.5	1072.3	1173.9	1152.6	1106.7	1072.3	1057.5	1032.9
45°	4418.5	3664.3	1475.6	990.3	1011.6	1126.4	1119.8	1049.3	1005.0	952.6	946.0
47.5°	4762.8	3816.8	1257.5	896.8	954.2	1108.3	1111.6	1021.4	957.5	887.0	877.1
50°	5203.9	4036.5	1091.9	857.5	919.8	1082.1	1087.0	983.7	900.1	828.0	821.4
52.5°	5626.9	4261.1	954.2	796.8	896.8	1050.9	1062.4	949.3	852.6	762.4	767.3
55°	5840.0	4179.2	836.2	752.5	844.4	1000.1	1042.7	924.7	780.4	718.1	716.5
57.5°	5887.6	3977.5	742.7	706.6	800.1	946.0	1010.0	850.9	747.6	695.2	688.6
60°	5731.8	3625.0	668.9	657.5	744.3	890.3	934.5	811.6	714.8	672.2	662.4
62.5°	5348.1	3259.4	618.1	634.5	696.8	829.6	887.0	783.7	683.7	654.2	632.9
65°	4385.7	2680.6	577.1	590.2	647.6	770.6	857.5	752.5	655.8	627.9	626.3
67.5°	3038.0	1847.8	544.3	568.9	608.3	728.0	828.0	718.1	619.7	609.9	596.8
70°	1555.9	985.4	501.7	521.4	565.6	673.8	775.5	682.0	582.0	580.4	564.0
72.5°	788.6	577.1	452.5	482.0	513.2	603.3	709.9	634.5	534.5	516.5	490.2
73°	682.0	534.5	444.3	470.5	500.1	583.7	690.2	623.0	527.9	501.7	477.1
75°	496.8	421.4	398.4	424.6	447.6	526.3	624.7	570.6	485.3	457.4	434.5
77.5°	372.2	324.6	331.2	360.7	380.4	454.1	555.8	516.5	439.4	401.7	391.8
80°	273.8	247.6	273.8	301.7	316.4	400.0	506.6	447.6	370.5	327.9	319.7
82.5°	195.1	180.3	211.5	229.5	236.1	331.2	455.8	357.4	280.4	224.6	206.6
85°	111.5	109.8	142.6	141.0	145.9	193.5	300.0	237.7	180.3	137.7	134.4
87.5°	49.2	54.1	72.1	57.4	60.7	91.8	127.9	88.5	73.8	41.0	31.2
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)