

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: P478040

Luminaire Tested: **IFLD-S-SA3B-727-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478040  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-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**

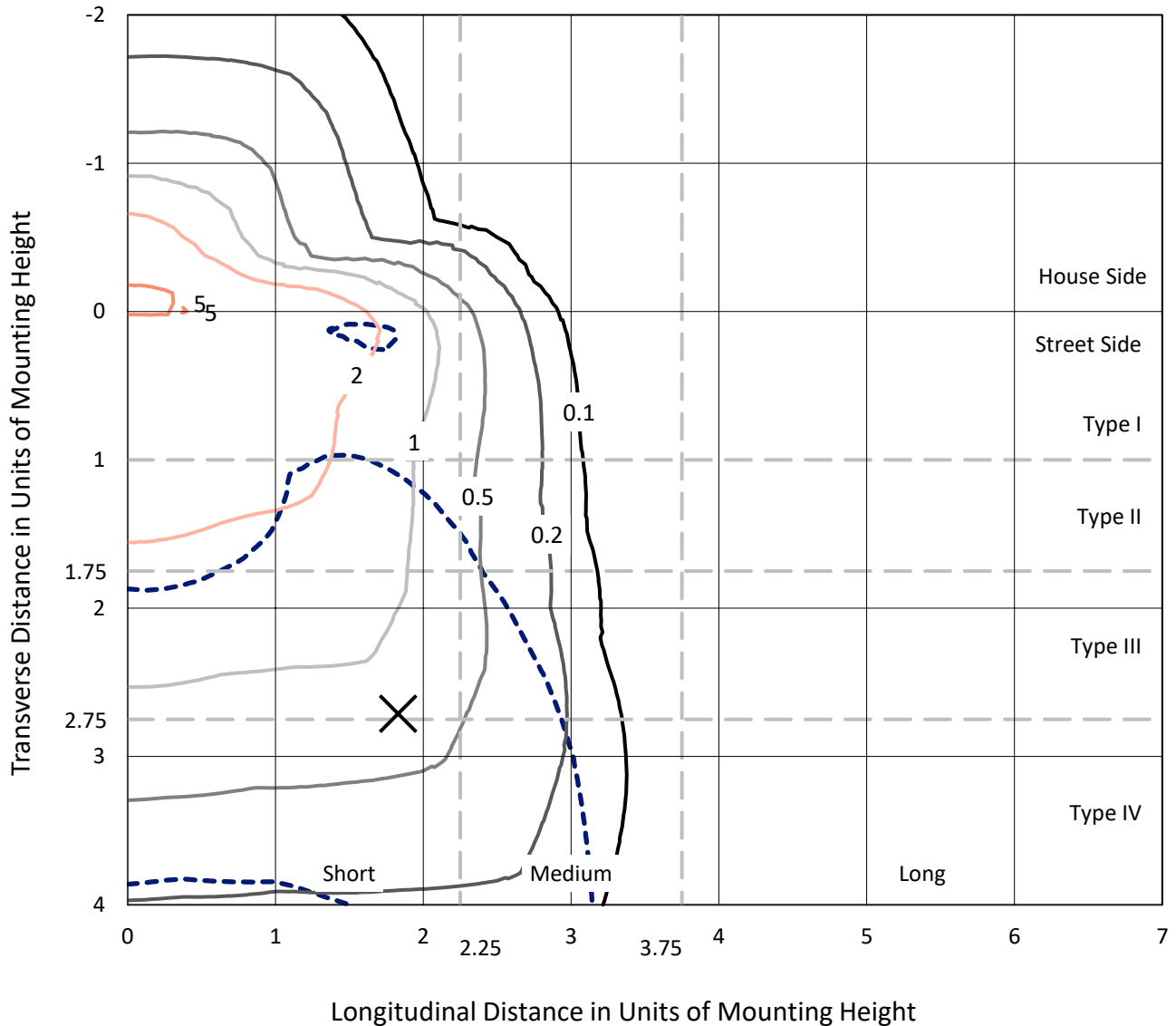
Lumens per Lamp: N/A  
Luminaire Lumens: 14578.9 lumens  
Efficiency: N/A  
Efficacy: 119.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4  
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

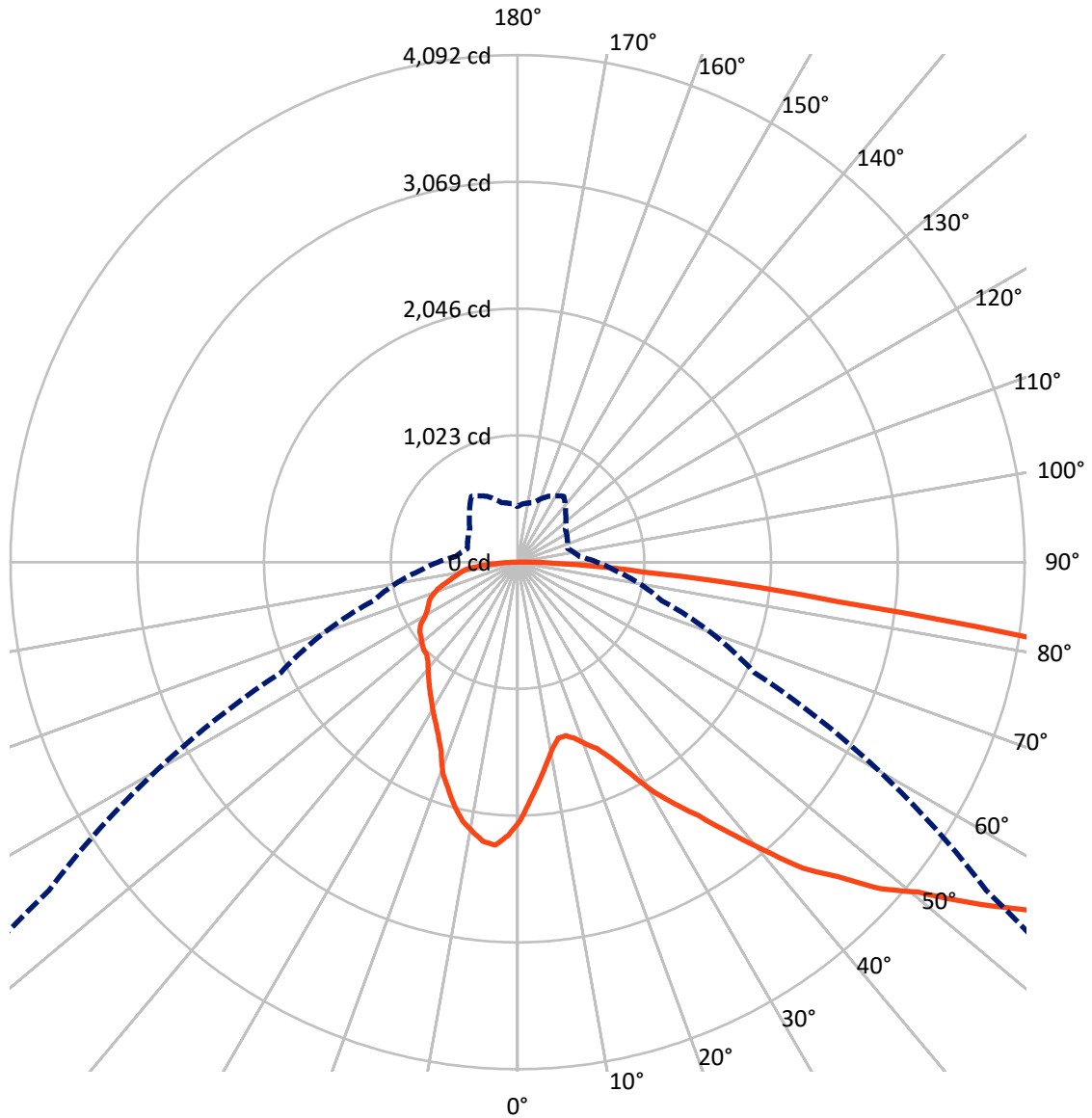
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 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	3149.2	0.0	3149.2
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	11429.7	0.0	11429.7
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	14578.9	0.0	14578.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.9	1.3
10°-20°	539.9	3.7
20°-30°	888.5	6.1
30°-40°	1328.8	9.1
40°-50°	1969.9	13.5
50°-60°	2838.8	19.5
60°-70°	3622.7	24.8
70°-80°	2819.1	19.3
80°-90°	378.2	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°	14578.9	100.0
0°-180°	14578.9	100.0

**Coefficient of Utilization**



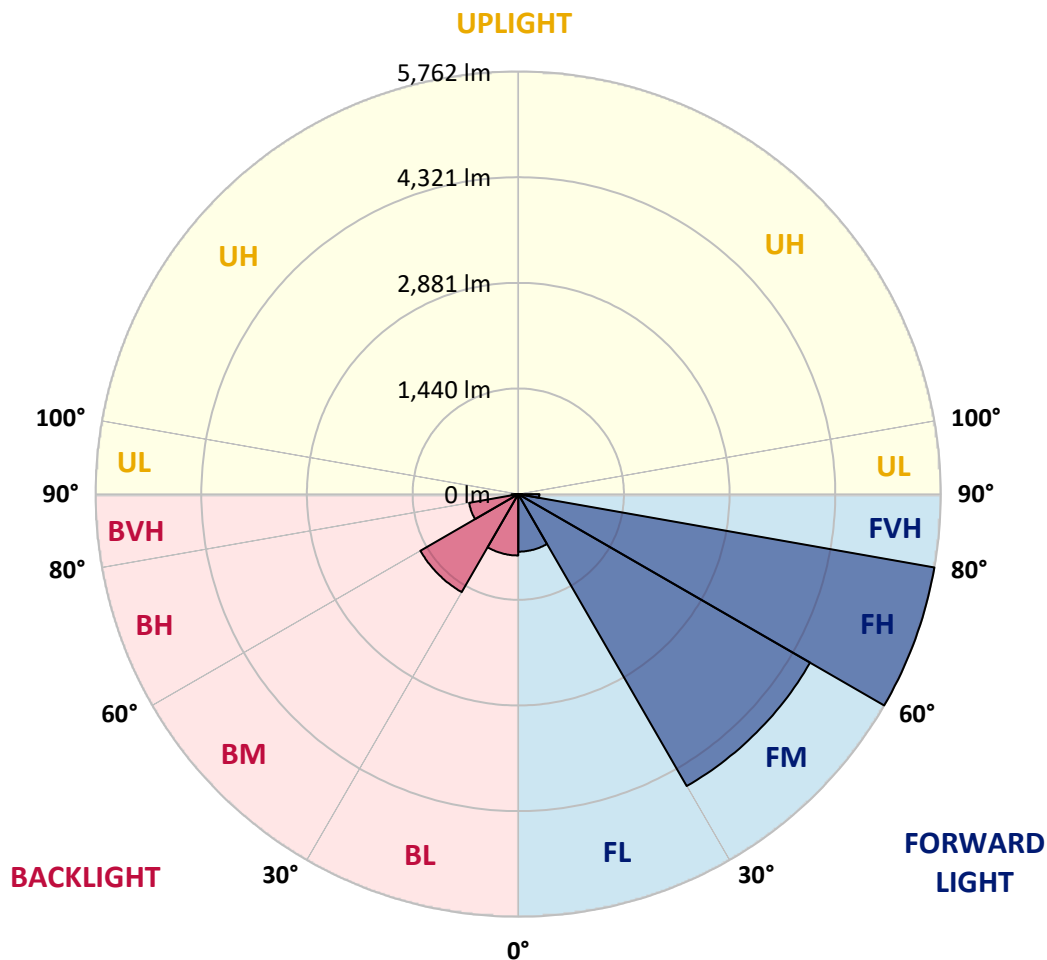
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 CATALOG NUMBER: IFLD-S-SA3B-727-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	784.6	5.4			
FM (30°-60°)	4595.4	31.5			
FH (60°-80°)	5761.8	39.5			G3/7500
FVH (80°-90°)	287.9	2.0			G3/500
BL (0°-30°)	836.7	5.7	B2/1000		
BM (30°-60°)	1542.2	10.6	B2/2500		
BH (60°-80°)	680.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	90.3	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°	2090.1	2090.1	2090.1	2090.1	2090.1	2090.1	2090.1	2090.1	2090.1	2090.1	2090.1
2.5°	1872.8	1878.9	1899.0	1903.6	1925.2	1912.9	1939.1	1985.3	2011.5	2050.0	2096.3
5°	1724.8	1698.6	1710.9	1758.7	1783.4	1789.5	1817.3	1895.9	1945.2	2002.3	2088.6
7.5°	1550.6	1546.0	1570.7	1601.5	1650.8	1655.4	1717.1	1786.5	1888.2	2014.6	2116.3
10°	1431.9	1452.0	1465.9	1498.2	1532.1	1532.1	1610.7	1731.0	1846.6	1968.3	2122.5
12.5°	1425.8	1413.4	1416.5	1433.5	1458.1	1489.0	1563.0	1670.9	1817.3	1959.1	2148.7
15°	1445.8	1450.4	1422.7	1444.3	1453.5	1464.3	1546.0	1667.8	1798.8	1991.5	2193.4
17.5°	1552.2	1526.0	1482.8	1462.8	1495.1	1495.1	1550.6	1646.2	1801.9	2008.4	2258.1
20°	1635.4	1635.4	1564.5	1542.9	1566.0	1561.4	1600.0	1670.9	1817.3	2042.3	2330.6
22.5°	1775.7	1795.7	1678.6	1633.9	1632.3	1644.7	1678.6	1738.7	1860.4	2090.1	2399.9
25°	1977.6	1982.2	1846.6	1800.3	1751.0	1771.0	1777.2	1837.3	1899.0	2145.6	2478.5
27.5°	2202.6	2199.6	2074.7	1959.1	1926.7	1931.4	1897.4	1937.5	1956.0	2162.6	2591.1
30°	2452.3	2424.6	2330.6	2167.2	2141.0	2111.7	2037.7	2036.2	2074.7	2258.1	2746.7
32.5°	2615.7	2580.3	2515.5	2398.4	2325.9	2329.0	2211.9	2210.3	2176.4	2362.9	2882.4
35°	2776.0	2722.1	2705.1	2584.9	2512.5	2520.2	2426.1	2413.8	2352.1	2521.7	3105.9
37.5°	2968.7	2920.9	2947.1	2856.2	2766.8	2729.8	2686.6	2671.2	2591.1	2745.2	3411.1
40°	3181.4	3166.0	3149.0	3104.3	3050.4	3053.5	3007.2	2991.8	2873.1	3014.9	3703.9
42.5°	3468.1	3409.5	3321.7	3351.0	3378.7	3408.0	3392.6	3352.5	3229.2	3289.3	4030.7
45°	3734.8	3657.7	3495.9	3505.1	3619.2	3642.3	3828.8	3824.2	3576.0	3637.7	4402.2
47.5°	3915.1	3879.7	3782.5	3771.8	3935.1	3933.6	4269.6	4269.6	3941.3	3984.5	4801.4
50°	4183.3	4090.8	4049.2	4103.2	4186.4	4243.4	4719.7	4749.0	4300.5	4346.7	5323.9
52.5°	4497.7	4382.1	4277.3	4416.1	4564.0	4601.0	5165.2	5152.8	4576.4	4767.5	5935.9
55°	4758.2	4699.7	4627.2	4707.4	4949.4	4995.6	5612.2	5498.1	4852.3	5115.8	6230.3
57.5°	5061.9	5097.3	5112.8	5092.7	5381.0	5453.4	6122.4	5795.6	5089.6	5350.1	6402.9
60°	5519.7	5541.3	5561.3	5609.1	5914.3	6016.0	6526.2	6168.6	5239.2	5485.8	6416.8
62.5°	6216.4	6133.2	6177.9	6342.8	6587.9	6703.5	7121.2	6430.6	5353.2	5567.5	5963.6
65°	7013.3	6900.8	6854.5	7067.2	7702.3	7609.8	7864.1	6626.4	5188.3	5262.3	5057.3
67.5°	7821.0	7833.3	7714.6	8141.6	8920.0	8920.0	8554.7	6720.4	4741.3	4265.0	3546.7
70°	8462.2	8500.7	8565.5	9393.2	10626.3	10812.8	9410.1	6335.1	3830.3	2839.2	1939.1
72.5°	8452.9	8337.3	8668.7	10193.2	12176.9	12021.2	9588.9	5009.5	2390.7	1390.3	889.4
73°	8263.3	8166.2	8528.5	10185.4	12240.1	12093.7	9457.9	4618.0	2108.6	1205.4	790.7
75°	6748.2	6572.4	7189.0	9225.2	11324.5	11437.0	8035.2	3011.9	1156.0	742.9	556.4
77.5°	3076.6	3153.7	3956.7	6188.6	8727.3	8859.9	5282.3	1302.5	633.5	521.0	410.0
80°	988.0	1037.3	1539.8	3076.6	5470.4	5709.3	2441.5	591.9	451.6	399.2	306.7
82.5°	377.6	376.1	645.8	1279.3	2592.6	2745.2	892.5	360.7	336.0	294.4	217.3
85°	132.6	138.7	243.5	505.6	1020.4	1068.2	309.8	200.4	232.7	197.3	124.9
87.5°	46.2	47.8	86.3	183.4	351.4	371.5	86.3	80.2	115.6	114.1	63.2
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°	2090.1	2090.1	2090.1	2090.1	2090.1	2090.1	2090.1	2090.1	2090.1	2090.1	2090.1
2.5°	2111.7	2125.6	2130.2	2185.7	2185.7	2185.7	2207.3	2207.3	2201.1	2185.7	2222.7
5°	2120.9	2145.6	2193.4	2241.2	2253.5	2264.3	2293.6	2268.9	2278.2	2262.7	2276.6
7.5°	2147.1	2181.1	2270.5	2299.7	2279.7	2302.8	2272.0	2255.0	2238.1	2244.3	2222.7
10°	2191.8	2235.0	2276.6	2330.6	2292.0	2268.9	2205.7	2190.3	2136.4	2117.9	2134.8
12.5°	2247.3	2299.7	2370.6	2350.6	2276.6	2210.3	2142.5	2077.8	2045.4	1999.2	2011.5
15°	2302.8	2362.9	2373.7	2339.8	2247.3	2164.1	2040.8	1949.8	1917.5	1875.9	1897.4
17.5°	2362.9	2420.0	2401.5	2313.6	2188.8	2062.4	1922.1	1832.7	1764.9	1738.7	1738.7
20°	2452.3	2480.1	2450.8	2270.5	2117.9	1951.4	1815.7	1714.0	1646.2	1635.4	1618.5
22.5°	2521.7	2566.4	2435.4	2207.3	2014.6	1806.5	1650.8	1612.3	1592.2	1575.3	1553.7
25°	2611.1	2609.6	2407.6	2148.7	1837.3	1633.9	1539.8	1536.8	1527.5	1521.3	1550.6
27.5°	2695.9	2660.4	2375.3	2003.8	1653.9	1502.8	1452.0	1485.9	1499.8	1490.5	1502.8
30°	2830.0	2771.4	2329.0	1849.7	1492.1	1370.3	1379.5	1425.8	1448.9	1462.8	1444.3
32.5°	2971.8	2882.4	2233.5	1689.4	1348.7	1287.1	1308.6	1356.4	1384.2	1399.6	1416.5
35°	3176.8	2968.7	2136.4	1479.7	1245.4	1236.2	1248.5	1274.7	1314.8	1325.6	1330.2
37.5°	3429.6	3099.7	2005.3	1311.7	1165.3	1176.1	1188.4	1197.7	1199.2	1219.2	1211.5
40°	3682.4	3210.7	1814.2	1151.4	1082.0	1140.6	1134.5	1117.5	1103.6	1085.1	1080.5
42.5°	3904.3	3307.8	1601.5	1015.8	1008.1	1103.6	1083.6	1040.4	1008.1	994.2	971.1
45°	4154.0	3445.0	1387.2	931.0	951.0	1058.9	1052.8	986.5	944.9	895.5	889.4
47.5°	4477.7	3588.3	1182.2	843.1	897.1	1042.0	1045.1	960.3	900.2	833.9	824.6
50°	4892.3	3794.9	1026.6	806.1	864.7	1017.3	1021.9	924.8	846.2	778.4	772.2
52.5°	5290.0	4006.0	897.1	749.1	843.1	988.0	998.8	892.5	801.5	716.7	721.4
55°	5490.4	3929.0	786.1	707.5	793.8	940.2	980.3	869.3	733.7	675.1	673.6
57.5°	5535.1	3739.4	698.2	664.3	752.2	889.4	949.5	800.0	702.9	653.5	647.4
60°	5388.7	3408.0	628.9	618.1	699.8	837.0	878.6	763.0	672.0	632.0	622.7
62.5°	5028.0	3064.3	581.1	596.5	655.1	779.9	833.9	736.8	642.8	615.0	595.0
65°	4123.2	2520.2	542.6	554.9	608.8	724.4	806.1	707.5	616.6	590.3	588.8
67.5°	2856.2	1737.1	511.7	534.9	571.9	684.4	778.4	675.1	582.6	573.4	561.1
70°	1462.8	926.4	471.7	490.2	531.8	633.5	729.1	641.2	547.2	545.6	530.2
72.5°	741.4	542.6	425.4	453.2	482.5	567.2	667.4	596.5	502.5	485.5	460.9
73°	641.2	502.5	417.7	442.4	470.1	548.7	648.9	585.7	496.3	471.7	448.5
75°	467.0	396.1	374.6	399.2	420.8	494.8	587.3	536.4	456.2	430.0	408.5
77.5°	349.9	305.2	311.4	339.1	357.6	427.0	522.5	485.5	413.1	377.6	368.4
80°	257.4	232.7	257.4	283.6	297.5	376.1	476.3	420.8	348.4	308.3	300.6
82.5°	183.4	169.6	198.8	215.8	222.0	311.4	428.5	336.0	263.6	211.2	194.2
85°	104.8	103.3	134.1	132.6	137.2	181.9	282.1	223.5	169.6	129.5	126.4
87.5°	46.2	50.9	67.8	53.9	57.0	86.3	120.2	83.2	69.4	38.5	29.3
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)