

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: P478117

Luminaire Tested: **IFLD-S-SA3A-735-U-T4FT**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P478117
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

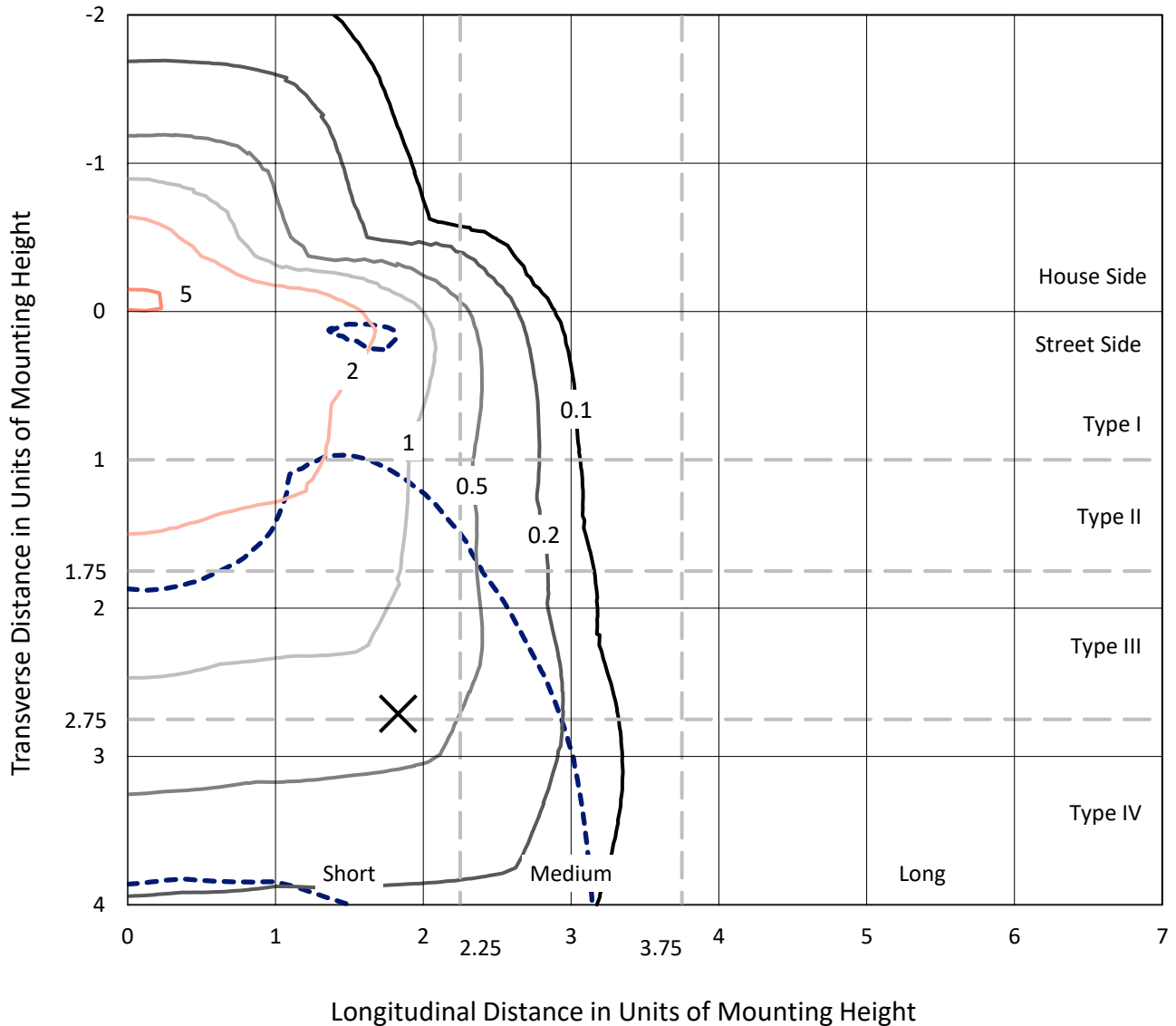
Lumens per Lamp: N/A
Luminaire Lumens: 13902.4 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 94.8
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

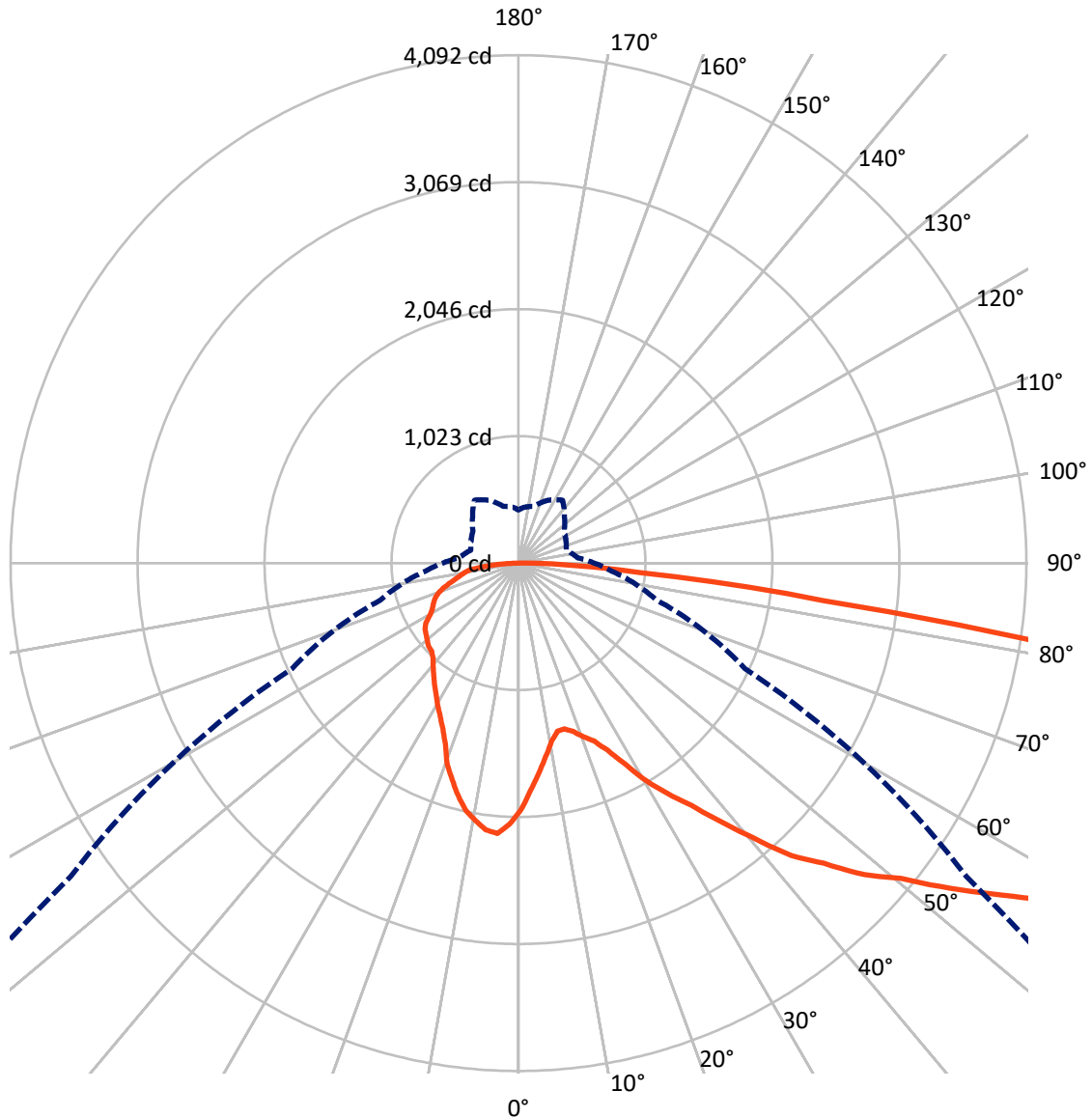
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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
House Side	Lumens	3003.1	0.0	3003.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	10899.3	0.0	10899.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	13902.4	0.0	13902.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.0	1.3
10°-20°	514.8	3.7
20°-30°	847.3	6.1
30°-40°	1267.1	9.1
40°-50°	1878.5	13.5
50°-60°	2707.1	19.5
60°-70°	3454.6	24.8
70°-80°	2688.3	19.3
80°-90°	360.6	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°	13902.4	100.0
0°-180°	13902.4	100.0

Coefficient of Utilization



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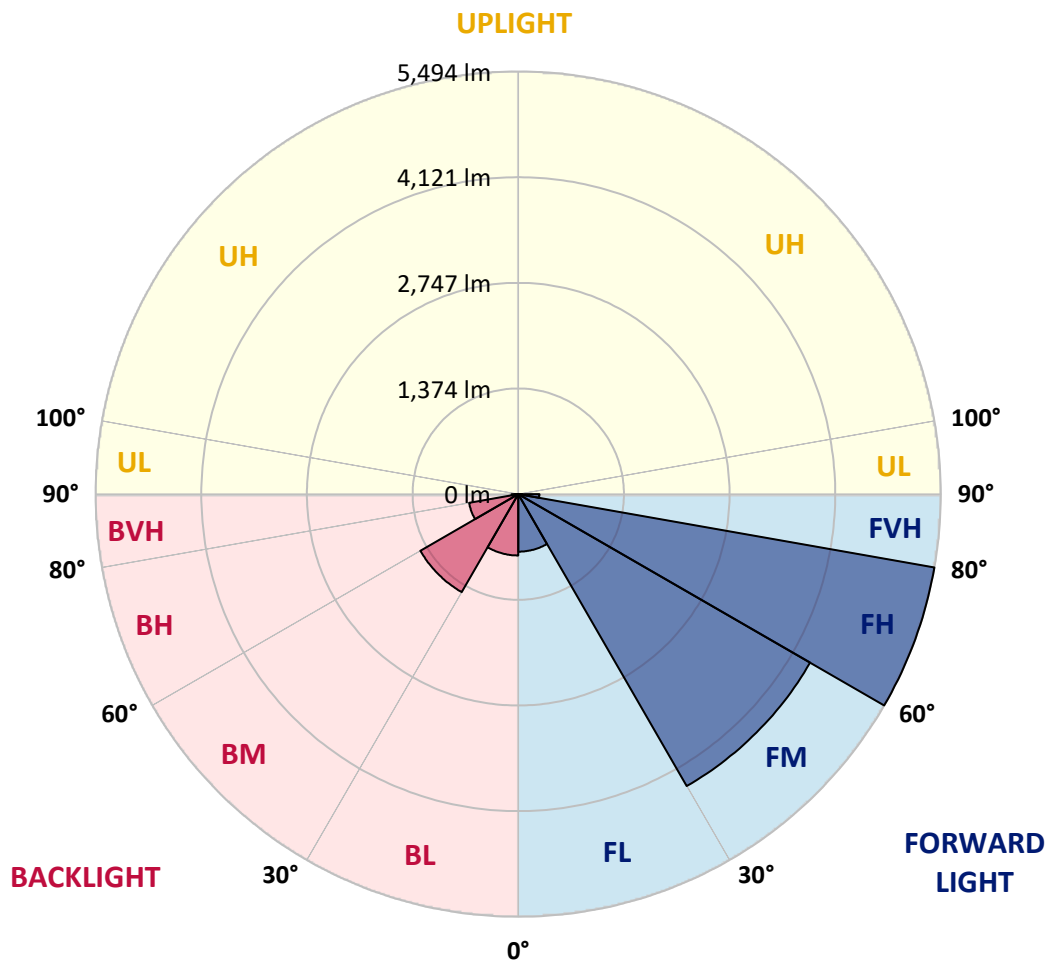
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	748.2	5.4			
FM (30°-60°)	4382.1	31.5			
FH (60°-80°)	5494.5	39.5			G3/7500
FVH (80°-90°)	274.5	2.0			G3/500
BL (0°-30°)	797.9	5.7	B2/1000		
BM (30°-60°)	1470.6	10.6	B2/2500		
BH (60°-80°)	648.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	86.1	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°	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1
2.5°	1785.9	1791.8	1810.9	1815.3	1835.9	1824.1	1849.1	1893.2	1918.2	1954.9	1999.0
5°	1644.8	1619.8	1631.5	1677.1	1700.6	1706.5	1733.0	1807.9	1855.0	1909.3	1991.7
7.5°	1478.7	1474.3	1497.8	1527.2	1574.2	1578.6	1637.4	1703.6	1800.6	1921.1	2018.1
10°	1365.5	1384.6	1397.8	1428.7	1461.0	1461.0	1536.0	1650.6	1760.9	1877.0	2024.0
12.5°	1359.6	1347.9	1350.8	1367.0	1390.5	1419.9	1490.4	1593.3	1733.0	1868.2	2049.0
15°	1378.7	1383.1	1356.7	1377.3	1386.1	1396.4	1474.3	1590.4	1715.3	1899.1	2091.6
17.5°	1480.1	1455.2	1414.0	1394.9	1425.8	1425.8	1478.7	1569.8	1718.3	1915.2	2153.3
20°	1559.5	1559.5	1491.9	1471.3	1493.4	1489.0	1525.7	1593.3	1733.0	1947.6	2222.4
22.5°	1693.3	1712.4	1600.7	1558.0	1556.6	1568.3	1600.7	1658.0	1774.1	1993.1	2288.6
25°	1885.8	1890.2	1760.9	1716.8	1669.8	1688.9	1694.7	1752.1	1810.9	2046.0	2363.5
27.5°	2100.4	2097.5	1978.4	1868.2	1837.3	1841.7	1809.4	1847.6	1865.2	2062.2	2470.8
30°	2338.5	2312.1	2222.4	2066.6	2041.6	2013.7	1943.1	1941.7	1978.4	2153.3	2619.3
32.5°	2494.3	2460.5	2398.8	2287.1	2218.0	2221.0	2109.2	2107.8	2075.4	2253.3	2748.6
35°	2647.2	2595.8	2579.6	2464.9	2395.9	2403.2	2313.6	2301.8	2243.0	2404.7	2961.8
37.5°	2830.9	2785.4	2810.4	2723.6	2638.4	2603.1	2562.0	2547.3	2470.8	2617.8	3252.8
40°	3033.8	3019.1	3002.9	2960.3	2908.8	2911.8	2867.7	2853.0	2739.8	2875.0	3532.1
42.5°	3307.2	3251.3	3167.5	3195.5	3221.9	3249.9	3235.2	3196.9	3079.3	3136.7	3843.7
45°	3561.5	3488.0	3333.6	3342.5	3451.2	3473.3	3651.1	3646.7	3410.1	3468.9	4197.9
47.5°	3733.4	3699.6	3607.0	3596.7	3752.5	3751.1	4071.5	4071.5	3758.4	3799.6	4578.6
50°	3989.2	3901.0	3861.3	3912.8	3992.1	4046.5	4500.7	4528.6	4100.9	4145.0	5076.9
52.5°	4289.0	4178.8	4078.9	4211.1	4352.2	4387.5	4925.5	4913.7	4364.0	4546.3	5660.4
55°	4537.4	4481.6	4412.5	4488.9	4719.7	4763.8	5351.7	5243.0	4627.1	4878.5	5941.2
57.5°	4827.0	4860.8	4875.5	4856.4	5131.3	5200.4	5838.3	5526.7	4853.5	5101.9	6105.8
60°	5263.6	5284.1	5303.2	5348.8	5639.8	5736.8	6223.4	5882.4	4996.0	5231.2	6119.0
62.5°	5927.9	5848.6	5891.2	6048.5	6282.2	6392.4	6790.7	6132.2	5104.8	5309.1	5686.9
65°	6687.8	6580.5	6536.4	6739.3	7344.9	7256.7	7499.2	6318.9	4947.5	5018.1	4822.6
67.5°	7458.0	7469.8	7356.6	7763.8	8506.1	8506.1	8157.7	6408.6	4521.3	4067.1	3382.1
70°	8069.5	8106.3	8168.0	8957.3	10133.2	10311.0	8973.5	6041.1	3652.6	2707.5	1849.1
72.5°	8060.7	7950.5	8266.5	9720.2	11611.9	11463.4	9144.0	4777.0	2279.7	1325.8	848.1
73°	7879.9	7787.3	8132.7	9712.8	11672.1	11532.5	9019.0	4403.7	2010.8	1149.4	754.0
75°	6435.0	6267.5	6855.4	8797.1	10799.0	10906.3	7662.4	2872.1	1102.4	708.5	530.6
77.5°	2933.8	3007.3	3773.1	5901.5	8322.3	8448.7	5037.2	1242.0	604.1	496.8	391.0
80°	942.2	989.2	1468.4	2933.8	5216.5	5444.3	2328.3	564.4	430.7	380.7	292.5
82.5°	360.1	358.6	615.9	1220.0	2472.3	2617.8	851.0	343.9	320.4	280.7	207.2
85°	126.4	132.3	232.2	482.1	973.0	1018.6	295.4	191.1	221.9	188.1	119.1
87.5°	44.1	45.6	82.3	174.9	335.1	354.2	82.3	76.4	110.2	108.8	60.3
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°	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1	1993.1
2.5°	2013.7	2026.9	2031.3	2084.3	2084.3	2084.3	2104.8	2104.8	2099.0	2084.3	2119.5
5°	2022.5	2046.0	2091.6	2137.2	2148.9	2159.2	2187.1	2163.6	2172.4	2157.7	2171.0
7.5°	2047.5	2079.8	2165.1	2193.0	2173.9	2196.0	2166.6	2150.4	2134.2	2140.1	2119.5
10°	2090.1	2131.3	2171.0	2222.4	2185.7	2163.6	2103.4	2088.7	2037.2	2019.6	2035.8
12.5°	2143.1	2193.0	2260.6	2241.5	2171.0	2107.8	2043.1	1981.4	1950.5	1906.4	1918.2
15°	2196.0	2253.3	2263.6	2231.2	2143.1	2063.7	1946.1	1859.4	1828.5	1788.8	1809.4
17.5°	2253.3	2307.7	2290.0	2206.3	2087.2	1966.7	1832.9	1747.7	1683.0	1658.0	1658.0
20°	2338.5	2365.0	2337.1	2165.1	2019.6	1860.8	1731.5	1634.5	1569.8	1559.5	1543.3
22.5°	2404.7	2447.3	2322.4	2104.8	1921.1	1722.7	1574.2	1537.5	1518.4	1502.2	1481.6
25°	2489.9	2488.5	2295.9	2049.0	1752.1	1558.0	1468.4	1465.4	1456.6	1450.7	1478.7
27.5°	2570.8	2537.0	2265.0	1910.8	1577.2	1433.1	1384.6	1416.9	1430.2	1421.4	1433.1
30°	2698.7	2642.8	2221.0	1763.8	1422.8	1306.7	1315.5	1359.6	1381.7	1394.9	1377.3
32.5°	2833.9	2748.6	2129.8	1611.0	1286.1	1227.3	1247.9	1293.5	1319.9	1334.6	1350.8
35°	3029.4	2830.9	2037.2	1411.1	1187.6	1178.8	1190.6	1215.6	1253.8	1264.1	1268.5
37.5°	3270.4	2955.9	1912.3	1250.8	1111.2	1121.5	1133.3	1142.1	1143.5	1162.7	1155.3
40°	3511.5	3061.7	1730.0	1098.0	1031.8	1087.7	1081.8	1065.6	1052.4	1034.8	1030.4
42.5°	3723.1	3154.3	1527.2	968.6	961.3	1052.4	1033.3	992.2	961.3	948.1	926.0
45°	3961.3	3285.1	1322.9	887.8	906.9	1009.8	1003.9	940.7	901.0	854.0	848.1
47.5°	4269.9	3421.8	1127.4	804.0	855.5	993.6	996.6	915.7	858.4	795.2	786.4
50°	4665.3	3618.8	978.9	768.7	824.6	970.1	974.5	881.9	807.0	742.3	736.4
52.5°	5044.5	3820.2	855.5	714.4	804.0	942.2	952.5	851.0	764.3	683.5	687.9
55°	5235.6	3746.7	749.6	674.7	757.0	896.6	934.8	829.0	699.7	643.8	642.3
57.5°	5278.3	3565.9	665.8	633.5	717.3	848.1	905.4	762.9	670.3	623.2	617.3
60°	5138.6	3249.9	599.7	589.4	667.3	798.1	837.8	727.6	640.9	602.6	593.8
62.5°	4794.7	2922.1	554.1	568.8	624.7	743.7	795.2	702.6	612.9	586.5	567.4
65°	3931.9	2403.2	517.4	529.1	580.6	690.8	768.7	674.7	587.9	563.0	561.5
67.5°	2723.6	1656.5	488.0	510.0	545.3	652.6	742.3	643.8	555.6	546.8	535.0
70°	1394.9	883.4	449.8	467.4	507.1	604.1	695.2	611.5	521.8	520.3	505.6
72.5°	707.0	517.4	405.7	432.1	460.1	540.9	636.4	568.8	479.2	463.0	439.5
73°	611.5	479.2	398.3	421.8	448.3	523.3	618.8	558.5	473.3	449.8	427.7
75°	445.4	377.8	357.2	380.7	401.3	471.8	560.0	511.5	435.1	410.1	389.5
77.5°	333.7	291.0	296.9	323.4	341.0	407.2	498.3	463.0	393.9	360.1	351.3
80°	245.5	221.9	245.5	270.5	283.7	358.6	454.2	401.3	332.2	294.0	286.6
82.5°	174.9	161.7	189.6	205.8	211.7	296.9	408.6	320.4	251.3	201.4	185.2
85°	100.0	98.5	127.9	126.4	130.8	173.4	269.0	213.1	161.7	123.5	120.5
87.5°	44.1	48.5	64.7	51.4	54.4	82.3	114.6	79.4	66.1	36.7	27.9
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)