

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: P476752

Luminaire Tested: **IFLD-S-SA3A-830-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476752  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-830-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

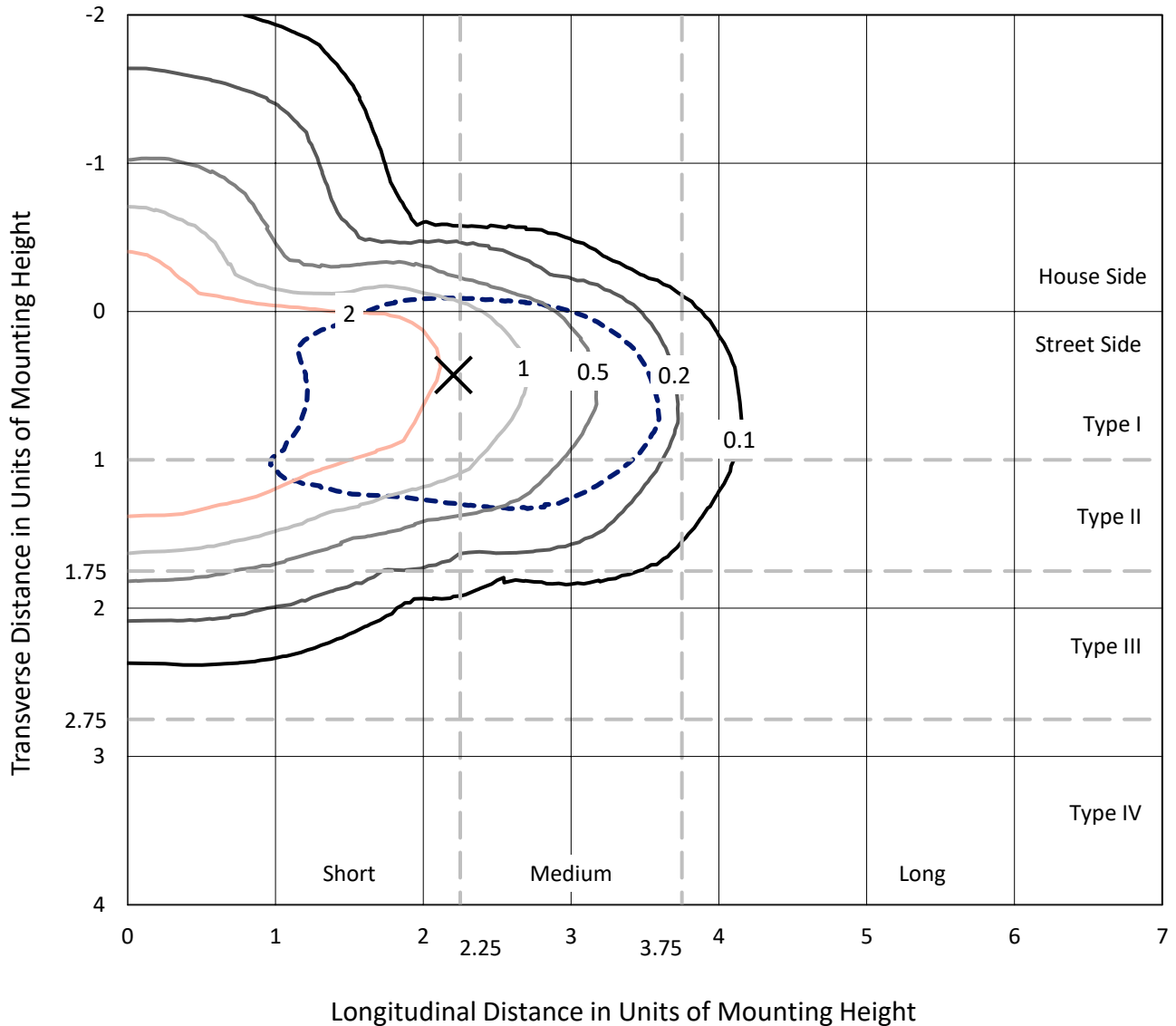
Lumens per Lamp: N/A  
Luminaire Lumens: 10919.3 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8  
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

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### Iso-Footcandle Lines of Horizontal Illumination

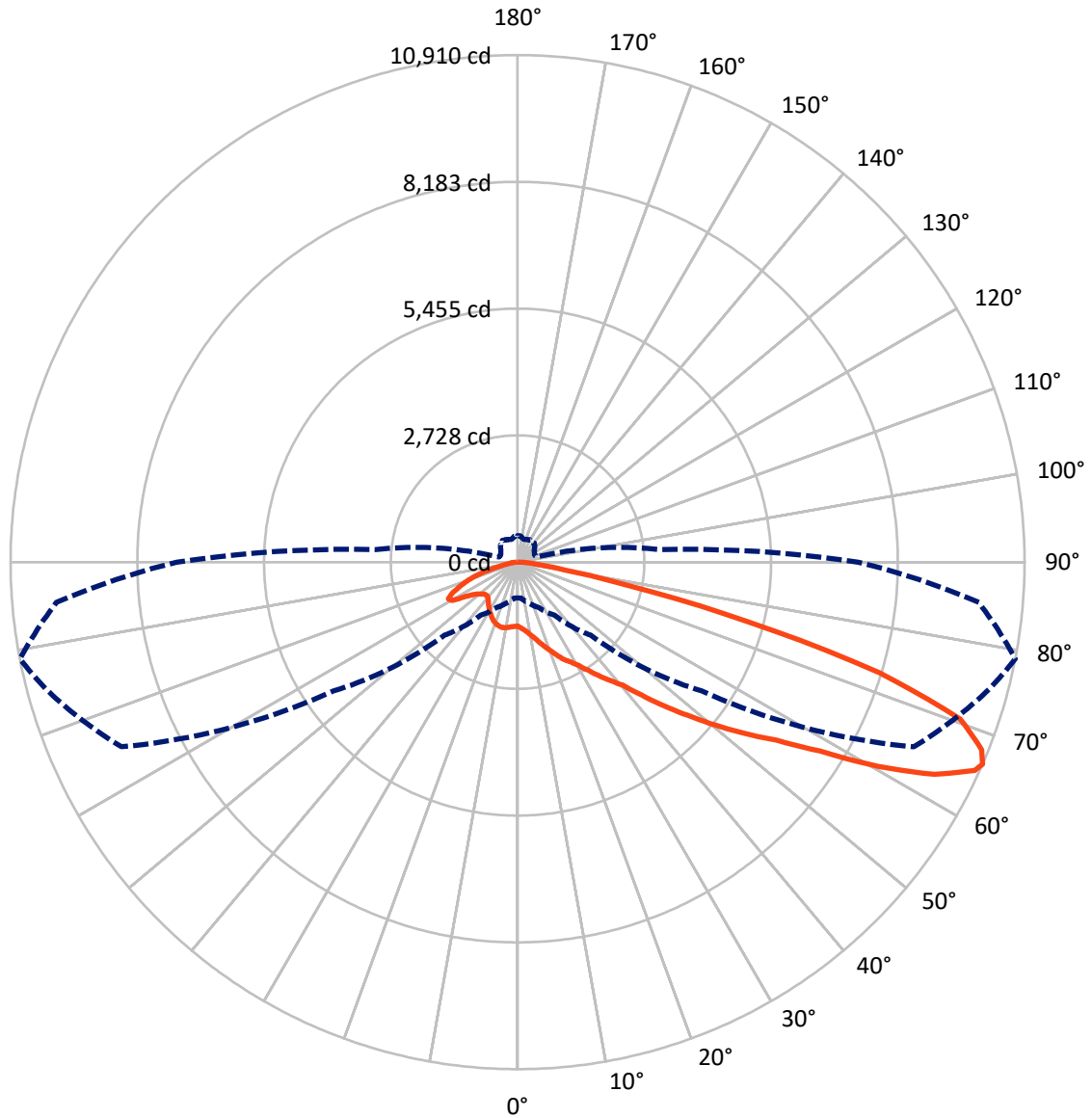
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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	2205.0	0.0	2205.0
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	8714.3	0.0	8714.3
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	10919.3	0.0	10919.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.6	1.2
10°-20°	418.7	3.8
20°-30°	718.6	6.6
30°-40°	1110.2	10.2
40°-50°	1778.2	16.3
50°-60°	2655.0	24.3
60°-70°	2728.0	25.0
70°-80°	1209.3	11.1
80°-90°	165.9	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°	10919.3	100.0
0°-180°	10919.3	100.0

**Coefficient of Utilization**



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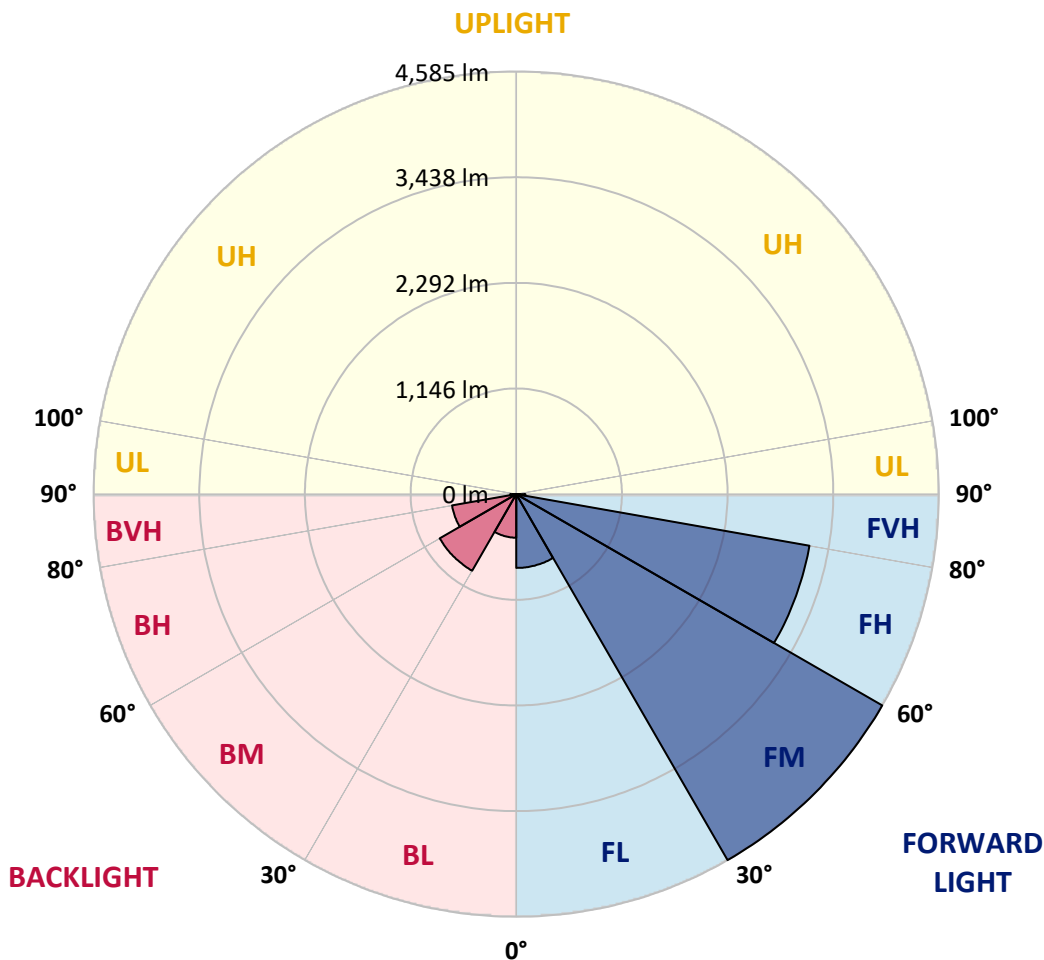
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	800.5	7.3			
FM (30°-60°)	4584.7	42.0			
FH (60°-80°)	3229.7	29.6			G2/5000
FVH (80°-90°)	99.5	0.9			G1/100
BL (0°-30°)	472.4	4.3	B1/500		
BM (30°-60°)	958.6	8.8	B1/1000		
BH (60°-80°)	707.5	6.5	B2/1000		G2/1000
BVH (80°-90°)	66.4	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8
2.5°	1466.5	1467.7	1467.7	1462.9	1464.1	1467.7	1454.5	1425.6	1425.6	1420.8	1412.4
5°	1556.6	1550.6	1542.2	1543.4	1538.5	1538.5	1524.1	1496.5	1472.5	1462.9	1437.7
7.5°	1568.6	1574.6	1573.4	1587.8	1595.0	1595.0	1602.2	1579.4	1543.4	1520.5	1495.3
10°	1592.6	1577.0	1575.8	1609.4	1620.2	1645.4	1674.3	1662.3	1632.2	1599.8	1566.2
12.5°	1607.0	1616.6	1616.6	1633.4	1658.7	1695.9	1746.3	1769.2	1722.3	1688.7	1637.0
15°	1628.6	1615.4	1653.8	1668.3	1716.3	1742.7	1814.8	1873.6	1842.4	1801.6	1719.9
17.5°	1638.2	1629.8	1651.4	1677.9	1759.5	1799.2	1886.9	1968.5	1942.1	1915.7	1831.6
20°	1687.5	1686.3	1695.9	1717.5	1776.4	1854.4	1963.7	2076.6	2086.2	2038.2	1924.1
22.5°	1807.6	1792.0	1792.0	1783.6	1808.8	1889.3	2037.0	2193.1	2236.4	2179.9	2028.6
25°	1918.1	1939.7	1926.5	1888.1	1878.4	1920.5	2089.8	2316.8	2374.5	2321.6	2170.3
27.5°	2059.8	2067.0	2089.8	2038.2	1972.1	1985.3	2147.5	2386.5	2505.4	2434.5	2250.8
30°	2264.0	2250.8	2246.0	2188.3	2101.8	2083.8	2213.5	2488.6	2677.1	2577.5	2345.7
32.5°	2402.1	2434.5	2433.3	2354.1	2249.6	2209.9	2295.2	2584.7	2860.9	2768.4	2521.0
35°	2675.9	2709.6	2683.2	2566.6	2444.1	2364.9	2412.9	2709.6	3071.1	2999.0	2669.9
37.5°	3025.5	3104.7	3048.3	2833.3	2660.3	2573.9	2576.3	2845.3	3286.1	3227.2	2829.7
40°	3266.9	3373.8	3295.7	3093.9	2910.2	2828.5	2796.1	3006.2	3543.1	3480.7	3079.5
42.5°	3565.9	3654.8	3614.0	3414.6	3199.6	3129.9	3065.1	3275.3	3935.8	3907.0	3400.2
45°	3892.6	3934.6	3921.4	3795.3	3556.3	3532.3	3389.4	3629.6	4398.3	4410.3	3801.3
47.5°	4196.5	4219.3	4244.5	4153.2	4004.3	4024.7	3762.9	4009.1	4847.4	4926.7	4248.1
50°	4274.5	4352.6	4411.5	4472.7	4505.1	4643.3	4174.9	4475.1	5363.9	5517.6	4745.4
52.5°	4195.3	4189.3	4368.2	4560.4	4884.7	5174.1	4735.8	5054.0	5820.3	6124.2	5200.6
55°	3835.0	3823.0	4111.2	4365.8	4998.8	5469.6	5536.9	5825.1	6371.6	6766.7	5816.7
57.5°	3204.4	3129.9	3444.6	3862.6	4751.4	5502.0	6341.6	6969.7	7219.5	7669.9	6757.1
60°	2153.5	2122.3	2423.7	2922.2	3857.8	5042.0	6823.2	8402.6	8414.6	8921.4	8216.4
62.5°	1326.0	1332.0	1525.3	1898.9	2701.2	3997.1	6615.4	9547.2	9549.6	10057.6	9417.5
65°	867.2	870.8	1026.9	1233.5	1687.5	2710.8	5470.8	9637.2	10338.7	10810.7	9967.5
66°	772.3	773.5	908.0	1076.1	1398.0	2218.3	4831.8	9403.0	10516.4	10910.4	9960.3
67.5°	651.0	666.6	774.7	904.4	1090.6	1593.8	3833.8	8725.6	10425.1	10771.0	9734.5
70°	509.2	517.7	602.9	735.0	817.9	922.4	2278.4	7112.6	9542.4	10103.3	8913.0
72.5°	408.4	415.6	480.4	596.9	664.2	607.7	1240.7	5160.9	7537.8	8135.9	7010.5
75°	344.7	345.9	377.1	469.6	546.5	456.4	660.6	3312.5	4836.6	5115.3	4295.0
77.5°	278.6	283.4	305.1	357.9	439.6	359.1	393.9	1855.6	2428.5	2448.9	1985.3
80°	227.0	229.4	242.6	260.6	335.1	265.4	266.6	905.6	1041.3	1017.3	807.1
82.5°	179.0	181.4	197.0	193.4	246.2	189.8	165.7	436.0	479.2	469.6	371.1
85°	100.9	100.9	154.9	154.9	156.1	120.1	100.9	205.4	253.4	236.6	174.2
87.5°	32.4	33.6	46.8	49.2	78.1	54.0	49.2	76.9	120.1	105.7	62.5
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°	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8
2.5°	1407.6	1388.4	1380.0	1352.4	1345.2	1327.2	1318.8	1307.9	1304.3	1288.7	1303.1
5°	1418.4	1412.4	1378.8	1344.0	1317.6	1305.5	1287.5	1263.5	1261.1	1239.5	1237.1
7.5°	1464.1	1443.7	1384.8	1347.6	1294.7	1264.7	1225.1	1213.1	1197.4	1190.2	1205.9
10°	1534.9	1483.3	1395.6	1301.9	1237.1	1201.1	1172.2	1163.8	1165.0	1160.2	1153.0
12.5°	1585.4	1536.1	1377.6	1263.5	1179.4	1144.6	1142.2	1150.6	1163.8	1157.8	1166.2
15°	1657.5	1565.0	1364.4	1199.9	1132.6	1123.0	1121.8	1147.0	1145.8	1145.8	1144.6
17.5°	1724.7	1593.8	1316.4	1144.6	1083.3	1090.6	1099.0	1097.8	1109.8	1114.6	1123.0
20°	1810.0	1627.4	1249.1	1089.4	1046.1	1043.7	1042.5	1043.7	1055.7	1062.9	1056.9
22.5°	1884.5	1634.6	1192.6	1036.5	1001.7	992.1	976.5	992.1	986.1	988.5	995.7
25°	1949.3	1635.8	1112.2	996.9	957.2	935.6	923.6	922.4	911.6	910.4	910.4
27.5°	2003.4	1595.0	1041.3	941.6	904.4	884.0	882.8	869.6	841.9	823.9	826.3
30°	2045.4	1563.8	992.1	893.6	857.6	853.9	843.1	813.1	777.1	754.3	754.3
32.5°	2119.9	1501.3	924.8	844.3	826.3	821.5	796.3	769.9	736.2	714.6	711.0
35°	2175.1	1443.7	880.4	802.3	793.9	784.3	762.7	733.8	724.2	719.4	723.0
37.5°	2237.6	1378.8	826.3	766.3	774.7	756.7	731.4	718.2	751.9	743.5	747.1
40°	2337.2	1333.2	773.5	744.7	753.1	732.6	700.2	695.4	737.4	707.4	700.2
42.5°	2519.8	1332.0	741.0	712.2	718.2	702.6	673.8	671.4	688.2	652.2	641.4
45°	2746.8	1374.0	717.0	688.2	683.4	681.0	671.4	660.6	646.2	599.3	587.3
47.5°	3018.2	1442.5	712.2	652.2	658.2	678.6	666.6	639.0	601.7	571.7	565.7
50°	3347.3	1584.2	700.2	625.7	636.6	669.0	659.4	620.9	587.3	568.1	564.5
52.5°	3711.3	1763.1	684.6	584.9	608.9	660.6	665.4	629.4	580.1	563.3	560.9
55°	4140.0	2027.4	666.6	540.5	576.5	652.2	665.4	605.3	570.5	570.5	568.1
57.5°	4986.8	2503.0	629.4	499.6	547.7	636.6	646.2	606.5	571.7	571.7	566.9
60°	6228.7	3245.2	558.5	468.4	520.1	614.9	631.8	588.5	558.5	565.7	564.5
62.5°	7200.3	3471.0	498.4	438.4	492.4	575.3	612.5	569.3	542.9	569.3	571.7
65°	7408.1	3242.8	437.2	406.0	454.0	536.9	584.9	541.7	520.1	571.7	574.1
66°	7333.6	3065.1	415.6	396.3	437.2	517.7	568.1	532.1	508.0	569.3	570.5
67.5°	7002.1	2798.5	391.5	375.9	414.4	490.0	548.9	518.9	488.8	562.1	551.3
70°	6281.5	2373.3	350.7	339.9	381.9	444.4	504.4	485.2	458.8	517.7	498.4
72.5°	4837.8	1896.5	307.5	308.7	344.7	397.5	460.0	446.8	424.0	454.0	442.0
75°	2946.2	1211.9	267.8	270.2	300.3	353.1	418.0	408.4	380.7	397.5	391.5
77.5°	1305.5	600.5	225.8	230.6	254.6	311.1	363.9	348.3	319.5	323.1	320.7
80°	506.8	284.6	183.8	189.8	205.4	248.6	301.5	287.1	261.8	257.0	254.6
82.5°	243.8	158.5	141.7	144.1	150.1	198.2	259.4	241.4	207.8	186.2	186.2
85°	122.5	98.5	99.7	91.3	99.7	134.5	175.4	146.5	121.3	108.1	110.5
87.5°	49.2	49.2	49.2	42.0	44.4	63.7	81.7	55.2	50.4	30.0	30.0
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)