

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: P478112

Luminaire Tested: **IFLD-S-SA2A-735-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478112  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-735-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

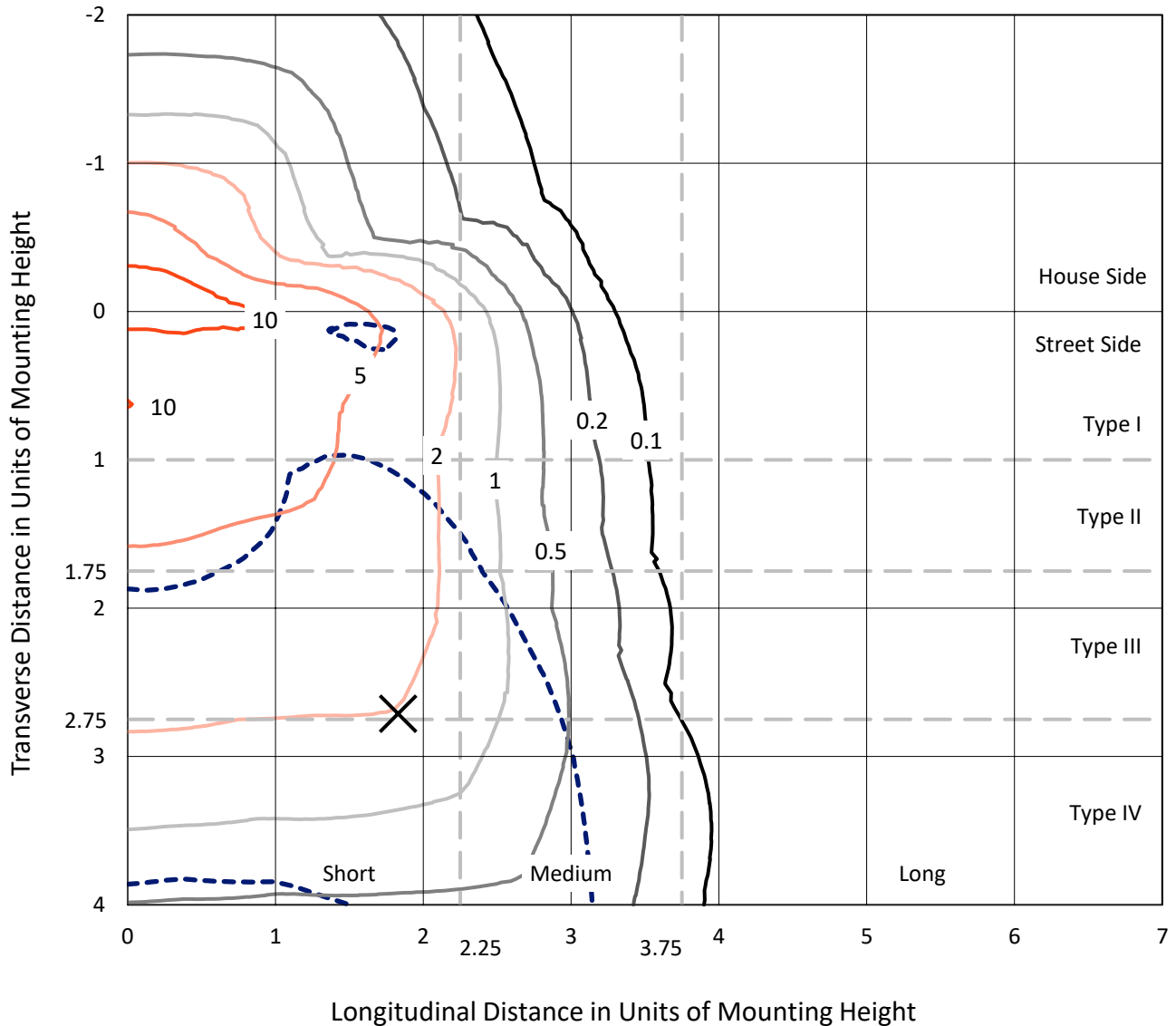
Lumens per Lamp: N/A  
Luminaire Lumens: 9328.8 lumens  
Efficiency: N/A  
Efficacy: 146.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.8  
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

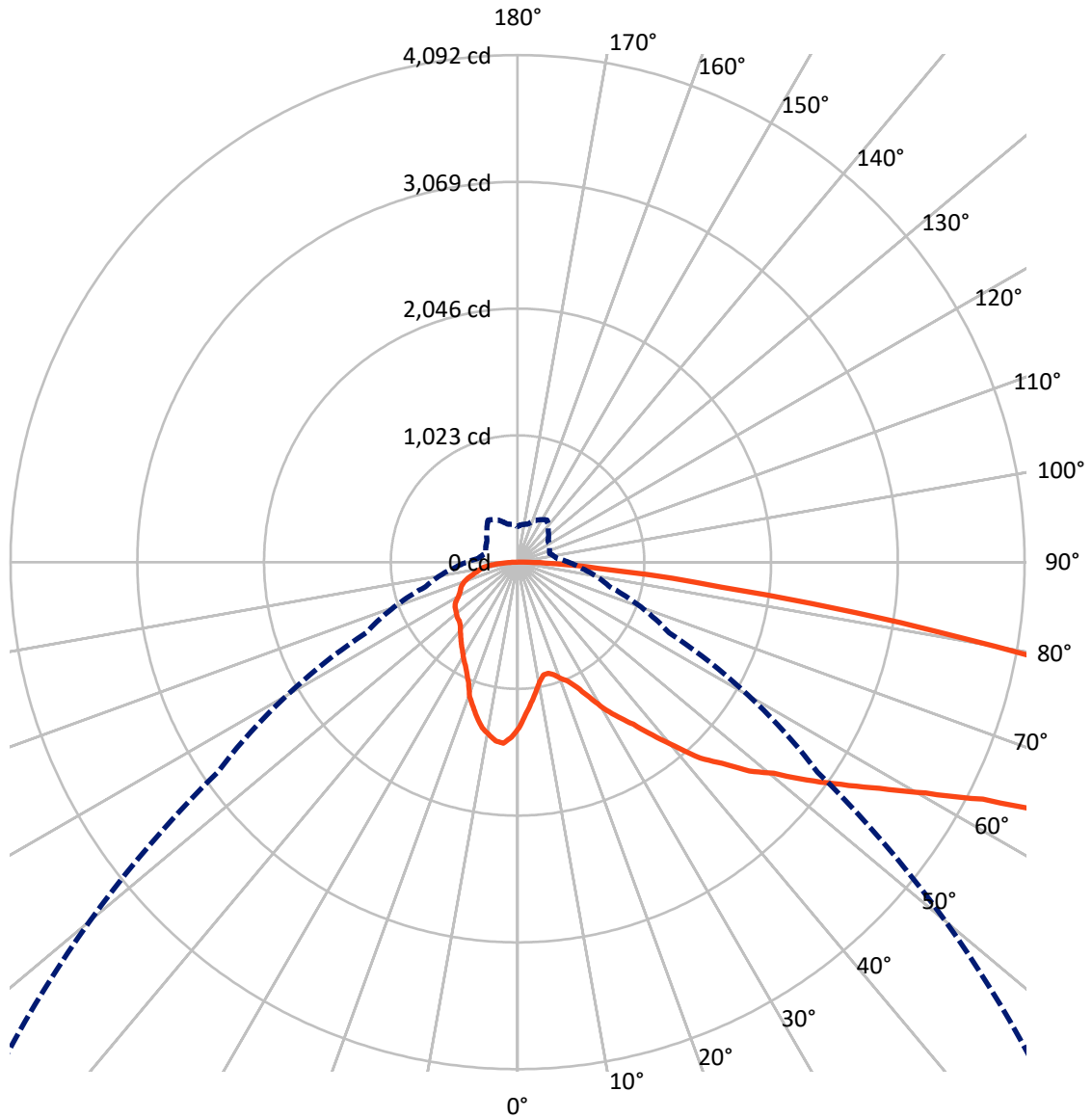
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.9 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	2015.1	0.0	2015.1
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	7313.6	0.0	7313.6
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	9328.8	0.0	9328.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.4	1.3
10°-20°	345.5	3.7
20°-30°	568.6	6.1
30°-40°	850.3	9.1
40°-50°	1260.5	13.5
50°-60°	1816.5	19.5
60°-70°	2318.1	24.8
70°-80°	1803.9	19.3
80°-90°	242.0	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°	9328.8	100.0
0°-180°	9328.8	100.0

**Coefficient of Utilization**



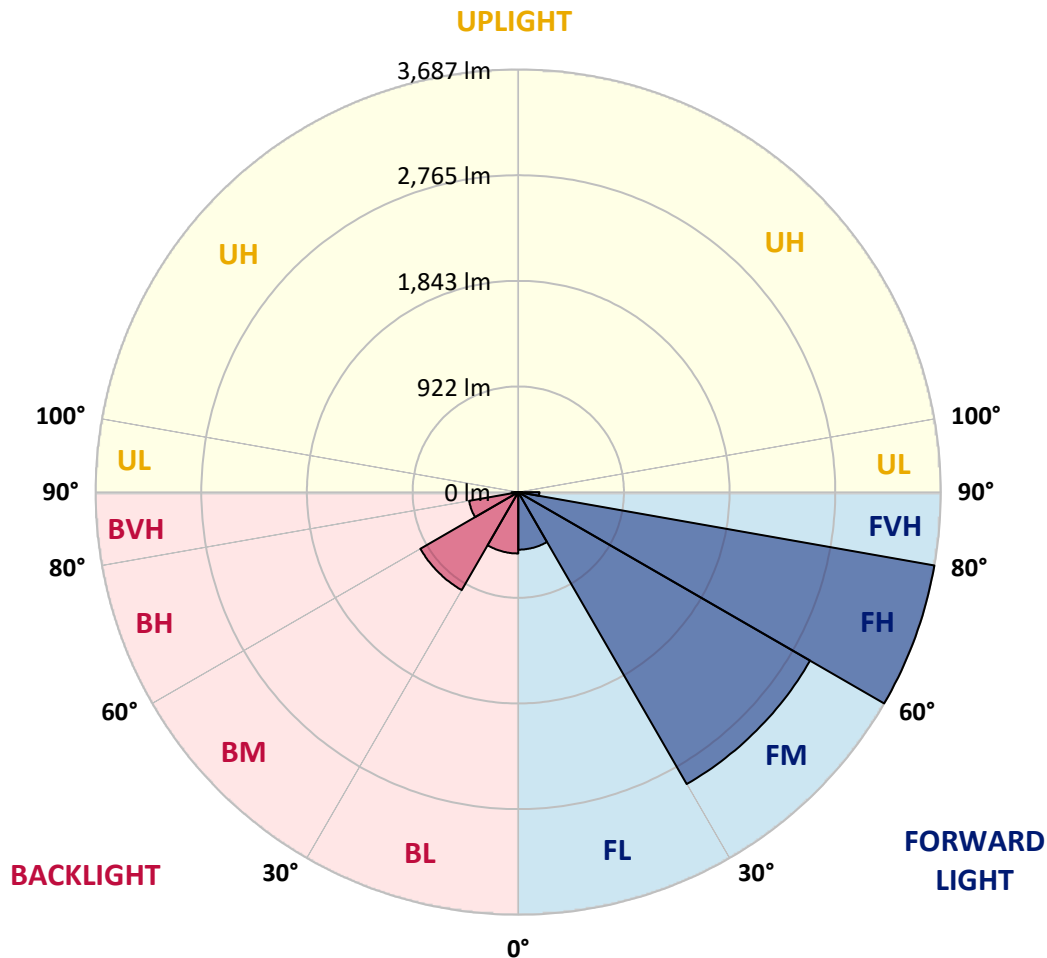
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	502.0	5.4			
FM (30°-60°)	2940.5	31.5			
FH (60°-80°)	3686.9	39.5			G2/5000
FVH (80°-90°)	184.2	2.0			G2/225
BL (0°-30°)	535.4	5.7	B2/1000		
BM (30°-60°)	986.8	10.6	B1/1000		
BH (60°-80°)	435.1	4.7	B1/500		G1/500
BVH (80°-90°)	57.8	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4
2.5°	1198.4	1202.3	1215.1	1218.1	1231.9	1224.0	1240.8	1270.4	1287.1	1311.8	1341.4
5°	1103.7	1086.9	1094.8	1125.4	1141.1	1145.1	1162.8	1213.1	1244.7	1281.2	1336.4
7.5°	992.2	989.3	1005.0	1024.8	1056.3	1059.3	1098.7	1143.1	1208.2	1289.1	1354.2
10°	916.3	929.1	938.0	958.7	980.4	980.4	1030.7	1107.6	1181.6	1259.5	1358.1
12.5°	912.3	904.4	906.4	917.3	933.0	952.8	1000.1	1069.1	1162.8	1253.6	1374.9
15°	925.1	928.1	910.4	924.2	930.1	937.0	989.3	1067.2	1151.0	1274.3	1403.5
17.5°	993.2	976.4	948.8	936.0	956.7	956.7	992.2	1053.4	1153.0	1285.1	1444.9
20°	1046.5	1046.5	1001.1	987.3	1002.1	999.1	1023.8	1069.1	1162.8	1306.8	1491.3
22.5°	1136.2	1149.0	1074.1	1045.5	1044.5	1052.4	1074.1	1112.5	1190.5	1337.4	1535.7
25°	1265.4	1268.4	1181.6	1152.0	1120.4	1133.3	1137.2	1175.7	1215.1	1372.9	1586.0
27.5°	1409.4	1407.5	1327.6	1253.6	1232.9	1235.8	1214.1	1239.8	1251.6	1383.8	1658.0
30°	1569.2	1551.4	1491.3	1386.7	1370.0	1351.2	1303.9	1302.9	1327.6	1444.9	1757.6
32.5°	1673.8	1651.1	1609.6	1534.7	1488.3	1490.3	1415.3	1414.4	1392.7	1512.0	1844.4
35°	1776.3	1741.8	1731.0	1654.0	1607.7	1612.6	1552.4	1544.5	1505.1	1613.6	1987.4
37.5°	1899.6	1869.0	1885.8	1827.6	1770.4	1746.7	1719.1	1709.3	1658.0	1756.6	2182.7
40°	2035.7	2025.9	2015.0	1986.4	1951.9	1953.9	1924.3	1914.4	1838.5	1929.2	2370.1
42.5°	2219.2	2181.7	2125.5	2144.2	2162.0	2180.7	2170.8	2145.2	2066.3	2104.8	2579.2
45°	2389.8	2340.5	2236.9	2242.8	2315.8	2330.6	2450.0	2447.0	2288.2	2327.7	2816.9
47.5°	2505.2	2482.5	2420.4	2413.5	2518.0	2517.0	2732.1	2732.1	2522.0	2549.6	3072.3
50°	2676.8	2617.6	2591.0	2625.5	2678.8	2715.3	3020.1	3038.8	2751.8	2781.4	3406.7
52.5°	2878.0	2804.1	2737.0	2825.7	2920.4	2944.1	3305.1	3297.2	2928.3	3050.6	3798.2
55°	3044.7	3007.2	2960.9	3012.2	3167.0	3196.6	3591.1	3518.1	3104.9	3273.5	3986.6
57.5°	3239.0	3261.7	3271.6	3258.7	3443.2	3489.5	3917.6	3708.5	3256.8	3423.4	4097.1
60°	3531.9	3545.7	3558.6	3589.1	3784.4	3849.5	4176.0	3947.2	3352.4	3510.2	4106.0
62.5°	3977.7	3924.5	3953.1	4058.6	4215.4	4289.4	4556.7	4114.8	3425.4	3562.5	3816.0
65°	4487.7	4415.7	4386.1	4522.2	4928.5	4869.4	5032.1	4240.1	3319.9	3367.2	3236.1
67.5°	5004.5	5012.4	4936.4	5209.6	5707.7	5707.7	5474.0	4300.3	3033.9	2729.1	2269.5
70°	5414.8	5439.4	5480.9	6010.5	6799.6	6918.9	6021.4	4053.7	2451.0	1816.8	1240.8
72.5°	5408.9	5334.9	5547.0	6522.4	7791.8	7692.2	6135.8	3205.5	1529.8	889.6	569.1
73°	5287.6	5225.4	5457.2	6517.5	7832.2	7738.5	6051.9	2955.0	1349.3	771.3	506.0
75°	4318.0	4205.6	4600.1	5903.0	7246.3	7318.3	5141.6	1927.2	739.7	475.4	356.1
77.5°	1968.7	2018.0	2531.8	3960.0	5584.4	5669.3	3380.1	833.4	405.4	333.4	262.4
80°	632.2	663.8	985.3	1968.7	3500.4	3653.3	1562.3	378.7	289.0	255.5	196.3
82.5°	241.6	240.7	413.3	818.6	1659.0	1756.6	571.1	230.8	215.0	188.4	139.1
85°	84.8	88.8	155.8	323.5	652.9	683.5	198.2	128.2	148.9	126.2	79.9
87.5°	29.6	30.6	55.2	117.4	224.9	237.7	55.2	51.3	74.0	73.0	40.4
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°	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4	1337.4
2.5°	1351.2	1360.1	1363.1	1398.6	1398.6	1398.6	1412.4	1412.4	1408.4	1398.6	1422.2
5°	1357.1	1372.9	1403.5	1434.1	1442.0	1448.9	1467.6	1451.8	1457.8	1447.9	1456.8
7.5°	1373.9	1395.6	1452.8	1471.6	1458.7	1473.5	1453.8	1443.0	1432.1	1436.1	1422.2
10°	1402.5	1430.1	1456.8	1491.3	1466.6	1451.8	1411.4	1401.5	1367.0	1355.2	1366.0
12.5°	1438.0	1471.6	1516.9	1504.1	1456.8	1414.4	1371.0	1329.5	1308.8	1279.2	1287.1
15°	1473.5	1512.0	1518.9	1497.2	1438.0	1384.8	1305.9	1247.7	1227.0	1200.3	1214.1
17.5°	1512.0	1548.5	1536.7	1480.4	1400.5	1319.7	1229.9	1172.7	1129.3	1112.5	1112.5
20°	1569.2	1587.0	1568.2	1452.8	1355.2	1248.7	1161.9	1096.8	1053.4	1046.5	1035.6
22.5°	1613.6	1642.2	1558.4	1412.4	1289.1	1155.9	1056.3	1031.7	1018.8	1008.0	994.2
25°	1670.8	1669.8	1540.6	1374.9	1175.7	1045.5	985.3	983.3	977.4	973.5	992.2
27.5°	1725.0	1702.4	1519.9	1282.2	1058.3	961.6	929.1	950.8	959.7	953.8	961.6
30°	1810.8	1773.4	1490.3	1183.6	954.7	876.8	882.7	912.3	927.1	936.0	924.2
32.5°	1901.6	1844.4	1429.1	1081.0	863.0	823.6	837.4	867.9	885.7	895.6	906.4
35°	2032.8	1899.6	1367.0	946.8	796.9	791.0	798.9	815.7	841.3	848.2	851.2
37.5°	2194.5	1983.4	1283.2	839.3	745.6	752.5	760.4	766.4	767.3	780.2	775.2
40°	2356.3	2054.5	1160.9	736.8	692.4	729.9	725.9	715.1	706.2	694.4	691.4
42.5°	2498.3	2116.6	1024.8	650.0	645.0	706.2	693.4	665.8	645.0	636.2	621.4
45°	2658.1	2204.4	887.7	595.7	608.5	677.6	673.6	631.2	604.6	573.0	569.1
47.5°	2865.2	2296.1	756.5	539.5	574.0	666.7	668.7	614.5	576.0	533.6	527.7
50°	3130.5	2428.3	656.9	515.8	553.3	651.0	653.9	591.8	541.5	498.1	494.1
52.5°	3385.0	2563.4	574.0	479.3	539.5	632.2	639.1	571.1	512.9	458.6	461.6
55°	3513.2	2514.1	503.0	452.7	507.9	601.6	627.3	556.3	469.5	432.0	431.0
57.5°	3541.8	2392.8	446.8	425.1	481.3	569.1	607.6	511.9	449.8	418.2	414.2
60°	3448.1	2180.7	402.4	395.5	447.8	535.6	562.2	488.2	430.0	404.4	398.5
62.5°	3217.3	1960.8	371.8	381.7	419.2	499.1	533.6	471.5	411.3	393.5	380.7
65°	2638.4	1612.6	347.2	355.1	389.6	463.6	515.8	452.7	394.5	377.8	376.8
67.5°	1827.6	1111.6	327.5	342.2	365.9	437.9	498.1	432.0	372.8	366.9	359.0
70°	936.0	592.8	301.8	313.6	340.3	405.4	466.5	410.3	350.1	349.2	339.3
72.5°	474.4	347.2	272.2	290.0	308.7	363.0	427.1	381.7	321.5	310.7	294.9
73°	410.3	321.5	267.3	283.1	300.8	351.1	415.2	374.8	317.6	301.8	287.0
75°	298.8	253.5	239.7	255.5	269.3	316.6	375.8	343.2	291.9	275.2	261.4
77.5°	223.9	195.3	199.2	217.0	228.8	273.2	334.4	310.7	264.3	241.6	235.7
80°	164.7	148.9	164.7	181.5	190.4	240.7	304.8	269.3	222.9	197.3	192.3
82.5°	117.4	108.5	127.2	138.1	142.0	199.2	274.2	215.0	168.7	135.1	124.3
85°	67.1	66.1	85.8	84.8	87.8	116.4	180.5	143.0	108.5	82.8	80.9
87.5°	29.6	32.5	43.4	34.5	36.5	55.2	76.9	53.3	44.4	24.7	18.7
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)