

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: P483187

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

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483187  
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-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

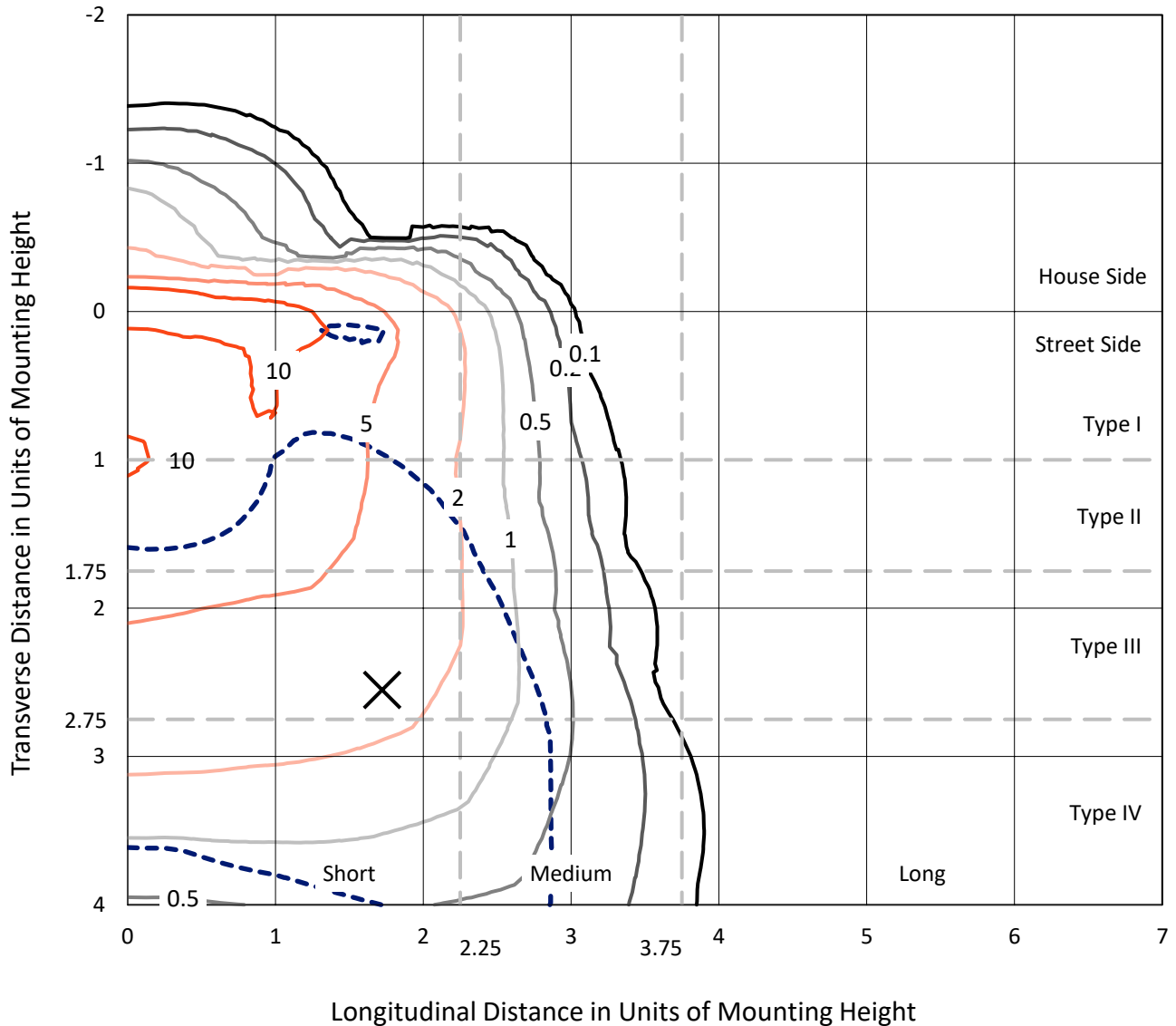
Lumens per Lamp: N/A  
Luminaire Lumens: 9812.3 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

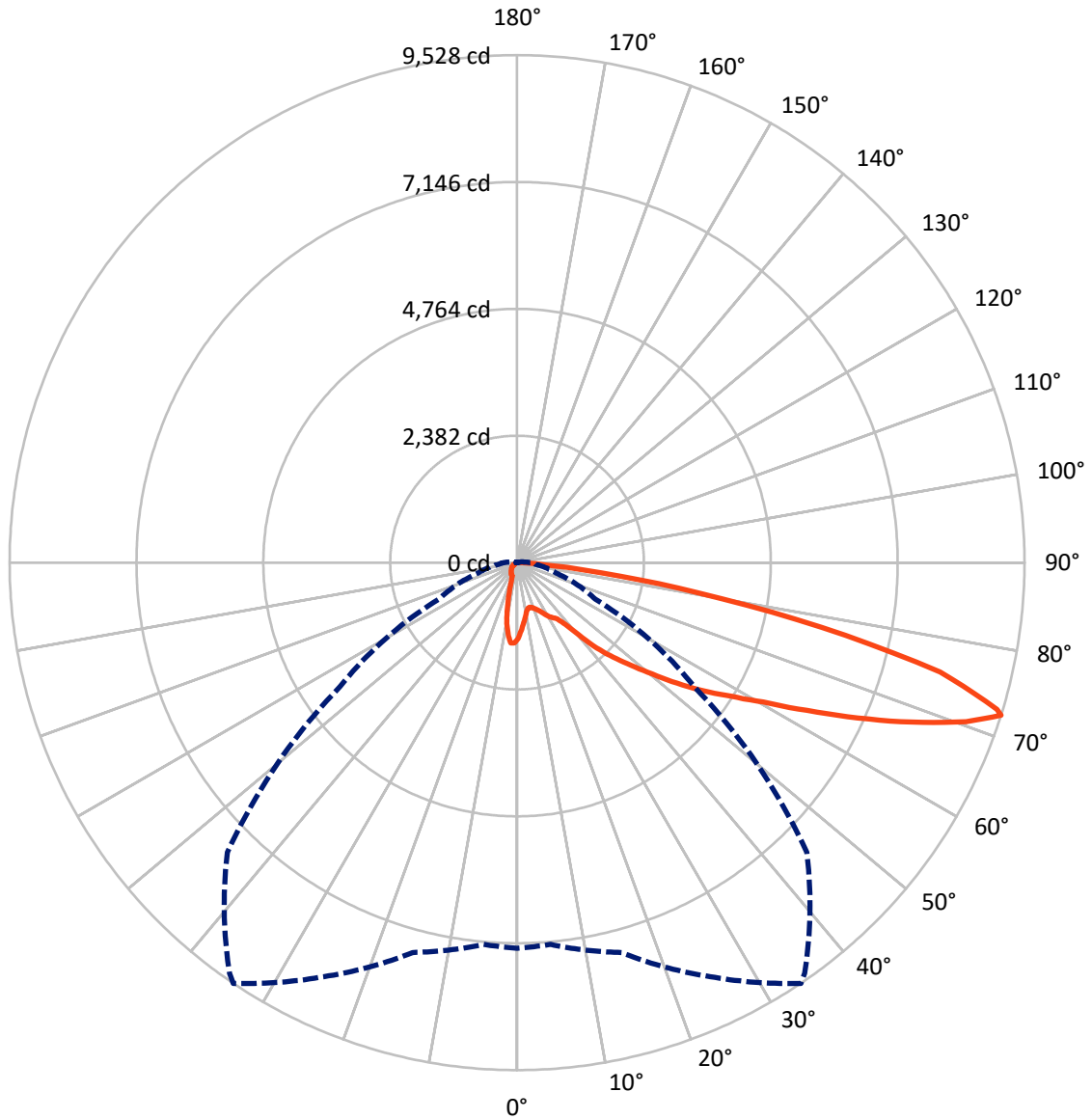
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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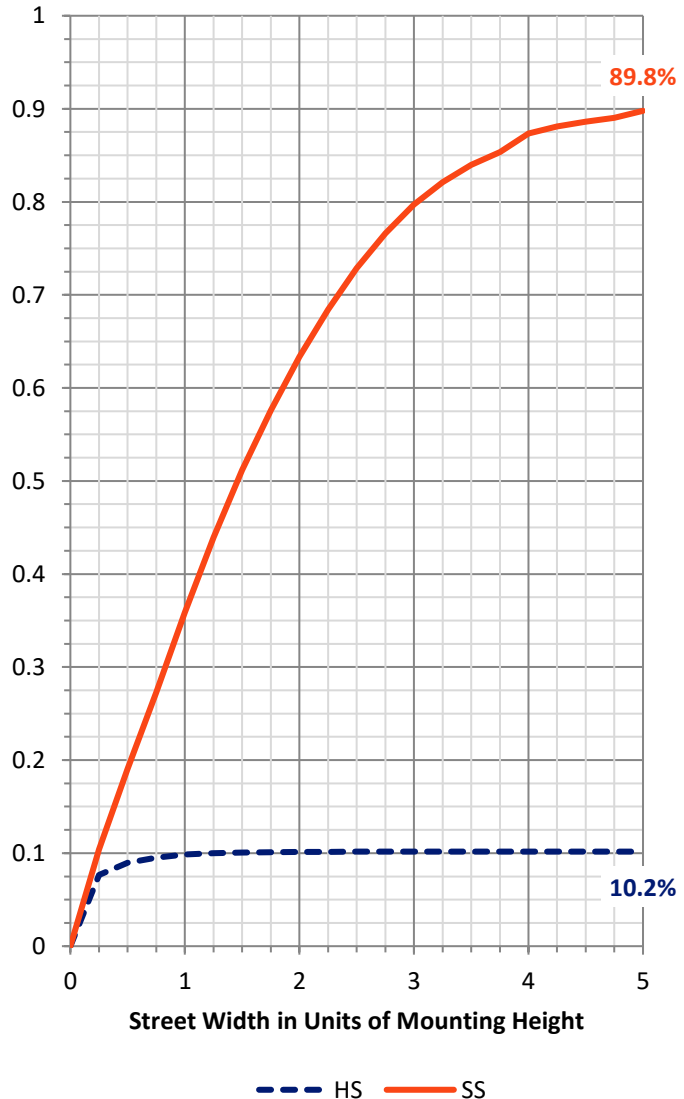
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1004.6	0.0	1004.6
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	8807.8	0.0	8807.8
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	9812.3	0.0	9812.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.6	1.3
10°-20°	282.1	2.9
20°-30°	425.8	4.3
30°-40°	691.1	7.0
40°-50°	1299.5	13.2
50°-60°	2124.7	21.7
60°-70°	2824.6	28.8
70°-80°	1891.6	19.3
80°-90°	148.2	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°	9812.3	100.0
0°-180°	9812.3	100.0

**Coefficient of Utilization**



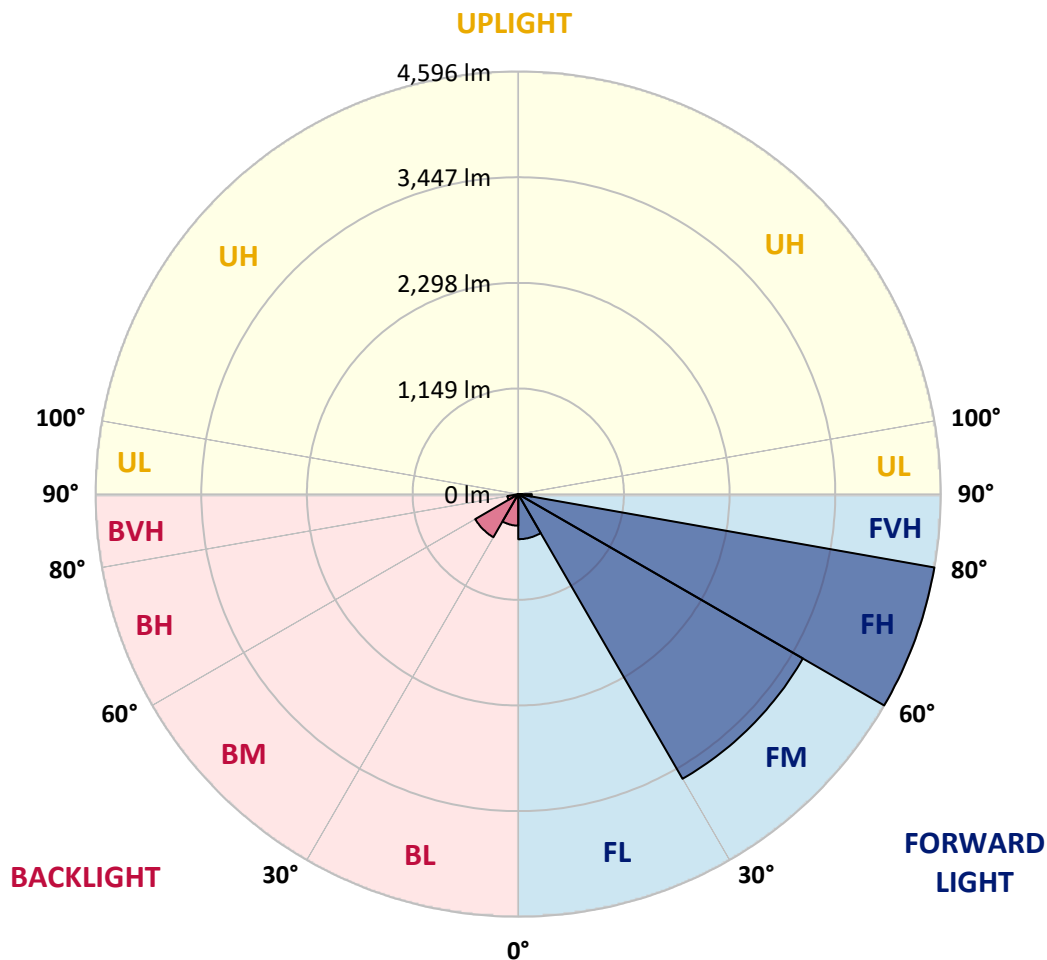
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	489.9	5.0			
FM (30°-60°)	3574.6	36.4			
FH (60°-80°)	4596.0	46.8			G2/5000
FVH (80°-90°)	147.3	1.5			G2/225
BL (0°-30°)	342.8	3.5	B1/500		
BM (30°-60°)	540.7	5.5	B1/1000		
BH (60°-80°)	120.1	1.2	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6
2.5°	1269.6	1266.7	1275.3	1289.4	1303.6	1298.0	1324.9	1353.3	1373.1	1400.1	1432.7
5°	1109.3	1116.4	1124.9	1153.3	1171.7	1176.0	1225.6	1262.5	1323.5	1385.9	1444.1
7.5°	963.2	971.7	988.7	1019.9	1058.2	1068.2	1117.8	1191.6	1271.0	1353.3	1448.3
10°	856.8	865.3	883.7	903.6	954.7	954.7	1022.8	1124.9	1228.4	1324.9	1449.7
12.5°	834.1	838.4	836.9	852.5	885.2	892.3	958.9	1071.0	1191.6	1315.0	1472.4
15°	861.0	863.9	849.7	841.2	869.6	876.7	939.1	1038.4	1167.4	1320.6	1509.3
17.5°	915.0	905.0	876.7	863.9	888.0	892.3	950.4	1036.9	1164.6	1336.3	1551.9
20°	946.2	957.5	907.9	883.7	917.8	923.5	985.9	1059.6	1178.8	1363.2	1611.4
22.5°	1001.5	1007.2	940.5	924.9	957.5	957.5	1028.4	1105.0	1212.8	1407.2	1682.4
25°	1079.5	1072.4	994.4	978.8	1010.0	1022.8	1093.7	1177.4	1265.3	1448.3	1747.6
27.5°	1140.5	1144.8	1080.9	1039.8	1092.3	1100.8	1177.4	1255.4	1305.0	1482.4	1827.1
30°	1231.3	1222.8	1154.7	1107.9	1173.1	1174.5	1248.3	1329.2	1381.6	1543.4	1946.2
32.5°	1339.1	1322.1	1244.0	1177.4	1229.9	1242.6	1317.8	1435.6	1500.8	1658.3	2130.6
35°	1567.5	1526.3	1398.7	1295.1	1299.4	1305.0	1421.4	1590.2	1665.4	1804.4	2377.5
37.5°	1900.8	1883.8	1739.1	1541.9	1466.8	1449.7	1580.2	1794.4	1888.1	1997.3	2698.0
40°	2231.3	2207.2	2072.5	1923.5	1787.3	1753.3	1818.6	2065.4	2150.5	2265.4	3027.1
42.5°	2598.7	2556.2	2397.3	2276.7	2191.6	2154.7	2129.2	2405.8	2502.3	2580.3	3349.1
45°	2970.4	2900.9	2671.1	2578.9	2533.5	2513.6	2510.8	2834.2	2892.4	2908.0	3706.6
47.5°	3296.7	3221.5	3013.0	2909.4	2875.4	2869.7	3028.6	3327.9	3282.5	3241.3	4105.2
50°	3547.7	3499.5	3349.1	3312.3	3286.7	3276.8	3648.5	3835.7	3625.8	3553.4	4455.6
52.5°	3936.4	3828.6	3658.4	3671.2	3760.5	3761.9	4276.9	4318.0	3910.9	3767.6	4786.1
55°	4247.1	4176.1	4037.1	4018.7	4254.2	4279.7	4840.0	4684.0	4069.8	3971.9	4908.1
57.5°	4613.1	4580.4	4479.7	4482.5	4729.4	4783.3	5340.8	4993.2	4201.7	4103.8	4926.5
60°	5142.2	5048.5	4996.1	5020.2	5311.0	5363.5	5825.9	5215.9	4265.5	4190.3	4881.2
62.5°	5726.6	5617.4	5560.6	5684.0	6108.2	6116.7	6194.7	5413.1	4225.8	4213.0	4588.9
65°	6430.2	6322.4	6277.0	6525.2	7028.8	6997.6	6712.5	5496.8	4099.5	3984.6	3821.5
67.5°	7130.9	7065.7	6972.1	7367.8	7994.8	7994.8	7250.1	5465.6	3769.0	3198.8	2499.4
70°	7462.9	7508.3	7657.2	8278.5	8943.8	8875.7	7780.6	5106.7	2805.8	1717.8	983.0
72°	7241.6	7194.8	7579.2	8576.4	9528.3	9416.2	7691.3	4059.8	1621.4	753.2	341.9
72.5°	6861.4	6905.4	7434.5	8535.3	9419.0	9511.2	7472.8	3744.9	1333.4	600.0	258.2
75°	4207.4	4282.5	5549.3	7247.3	8207.6	8104.1	5780.5	1784.5	512.1	255.3	92.2
77.5°	1536.3	1598.7	2692.4	4560.6	5837.2	5772.0	3344.9	634.1	278.0	190.1	46.8
80°	400.0	432.7	915.0	2103.7	3432.8	3437.1	1400.1	253.9	188.7	156.0	28.4
82.5°	79.4	87.9	280.9	818.5	1604.4	1583.1	442.6	136.2	141.9	127.7	19.9
85°	9.9	12.8	59.6	278.0	519.2	465.3	109.2	68.1	105.0	99.3	12.8
87.5°	1.4	1.4	14.2	63.8	109.2	106.4	22.7	21.3	46.8	61.0	7.1
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°	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6	1435.6
2.5°	1451.2	1456.8	1476.7	1493.7	1513.6	1519.2	1510.7	1524.9	1505.1	1516.4	1519.2
5°	1454.0	1486.6	1523.5	1547.6	1541.9	1527.8	1516.4	1478.1	1451.2	1441.2	1462.5
7.5°	1473.9	1510.7	1550.5	1550.5	1519.2	1445.5	1374.6	1306.5	1249.7	1221.4	1245.5
10°	1499.4	1537.7	1578.8	1524.9	1408.6	1273.8	1173.1	1045.5	958.9	913.5	917.8
12.5°	1533.4	1587.3	1601.5	1476.7	1283.8	1083.8	900.8	723.4	641.2	575.9	577.3
15°	1577.4	1629.9	1587.3	1371.7	1124.9	829.8	610.0	441.2	375.9	341.9	341.9
17.5°	1635.6	1675.3	1583.1	1275.3	910.7	567.4	374.5	297.9	283.7	278.0	278.0
20°	1703.7	1733.4	1541.9	1124.9	676.6	364.6	275.2	266.7	268.1	265.3	265.3
22.5°	1780.3	1790.2	1495.1	950.4	458.2	269.5	256.8	258.2	259.6	256.8	258.2
25°	1861.1	1834.2	1427.0	746.1	305.0	245.4	248.2	251.1	252.5	253.9	253.9
27.5°	1951.9	1898.0	1332.0	546.1	238.3	231.2	239.7	248.2	249.7	249.7	248.2
30°	2085.2	1995.9	1239.8	370.2	209.9	215.6	229.8	239.7	246.8	246.8	245.4
32.5°	2254.0	2098.0	1110.7	252.5	194.3	197.2	208.5	228.4	244.0	245.4	241.1
35°	2488.1	2221.4	975.9	201.4	183.0	184.4	191.5	207.1	234.1	242.6	241.1
37.5°	2734.9	2361.8	808.6	181.6	174.5	173.1	177.3	190.1	214.2	235.5	236.9
40°	2997.4	2509.4	632.7	171.6	167.4	164.5	166.0	171.6	190.1	217.0	222.7
42.5°	3244.2	2642.7	475.2	161.7	160.3	157.5	157.5	158.9	168.8	187.2	190.1
45°	3510.9	2751.9	361.7	154.6	150.4	151.8	146.1	143.3	150.4	151.8	150.4
47.5°	3760.5	2861.2	289.4	146.1	141.9	141.9	134.8	129.1	129.1	116.3	114.9
50°	3994.6	2920.7	231.2	134.8	133.3	131.9	122.0	112.1	103.6	87.9	85.1
52.5°	4188.9	2917.9	178.7	120.6	124.8	120.6	105.0	90.8	78.0	63.8	61.0
55°	4247.1	2781.7	134.8	99.3	106.4	100.7	83.7	70.9	56.7	45.4	44.0
57.5°	4197.4	2574.6	102.1	76.6	82.3	76.6	63.8	52.5	39.7	31.2	28.4
60°	4031.5	2332.1	79.4	59.6	62.4	58.2	48.2	39.7	28.4	19.9	17.0
62.5°	3716.5	2028.5	61.0	46.8	45.4	45.4	36.9	29.8	19.9	11.3	9.9
65°	3049.8	1581.7	46.8	32.6	32.6	32.6	28.4	21.3	12.8	5.7	2.8
67.5°	1915.0	920.6	38.3	25.5	24.1	24.1	19.9	14.2	7.1	1.4	0.0
70°	720.6	337.6	29.8	19.9	18.4	18.4	14.2	8.5	4.3	0.0	0.0
72°	248.2	129.1	24.1	14.2	14.2	12.8	9.9	7.1	2.8	0.0	0.0
72.5°	204.3	103.6	22.7	14.2	12.8	12.8	9.9	7.1	2.8	0.0	0.0
75°	73.8	42.6	15.6	9.9	8.5	8.5	7.1	4.3	1.4	0.0	0.0
77.5°	36.9	27.0	12.8	8.5	7.1	4.3	4.3	2.8	1.4	0.0	0.0
80°	22.7	17.0	7.1	5.7	4.3	2.8	1.4	1.4	0.0	0.0	0.0
82.5°	15.6	9.9	4.3	4.3	2.8	1.4	0.0	0.0	0.0	0.0	0.0
85°	9.9	4.3	2.8	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)