

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: P483148

Luminaire Tested: **IFLD-S-SA3A-730-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483148  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-730-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

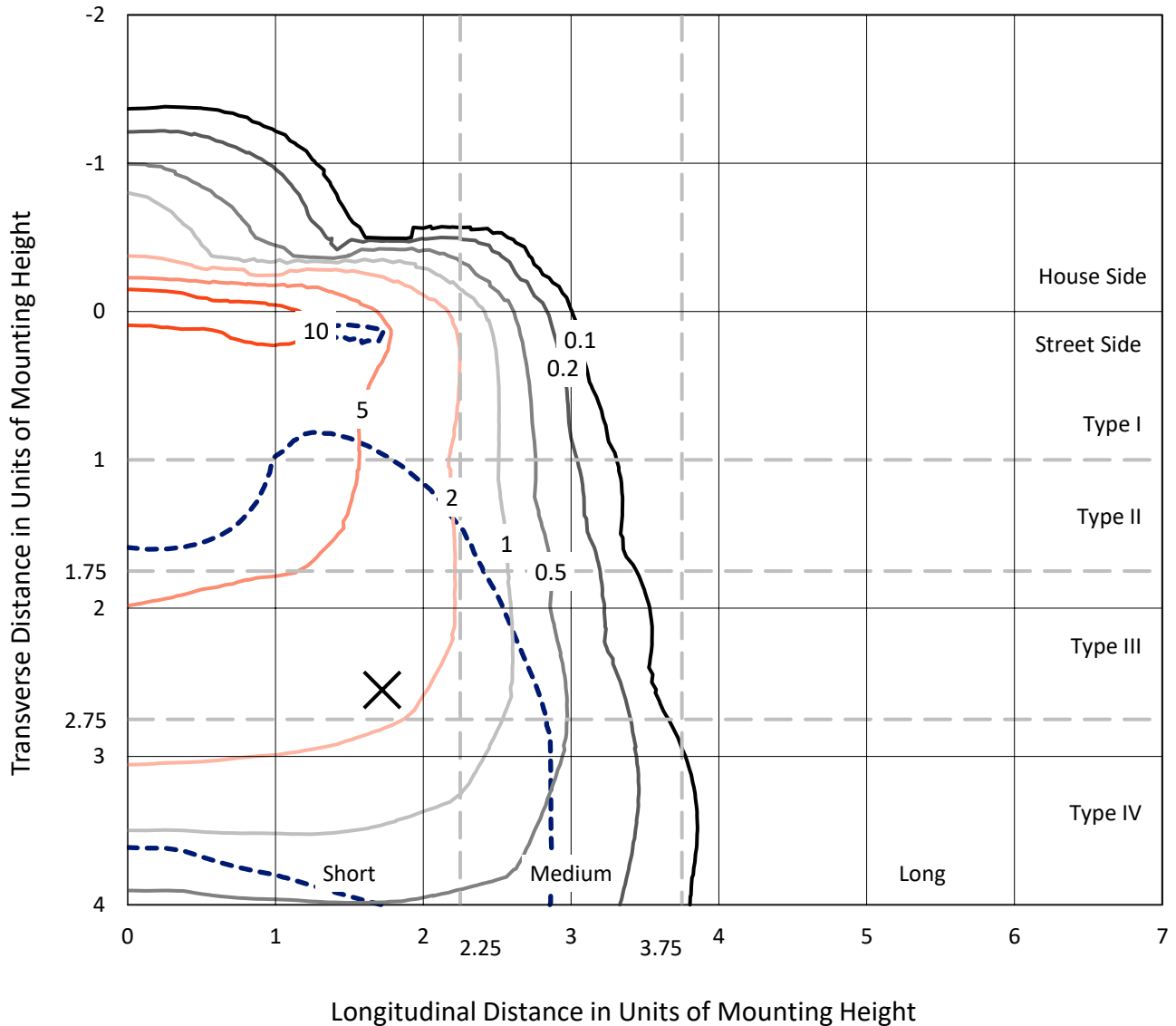
Lumens per Lamp: N/A  
Luminaire Lumens: 9059.2 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

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

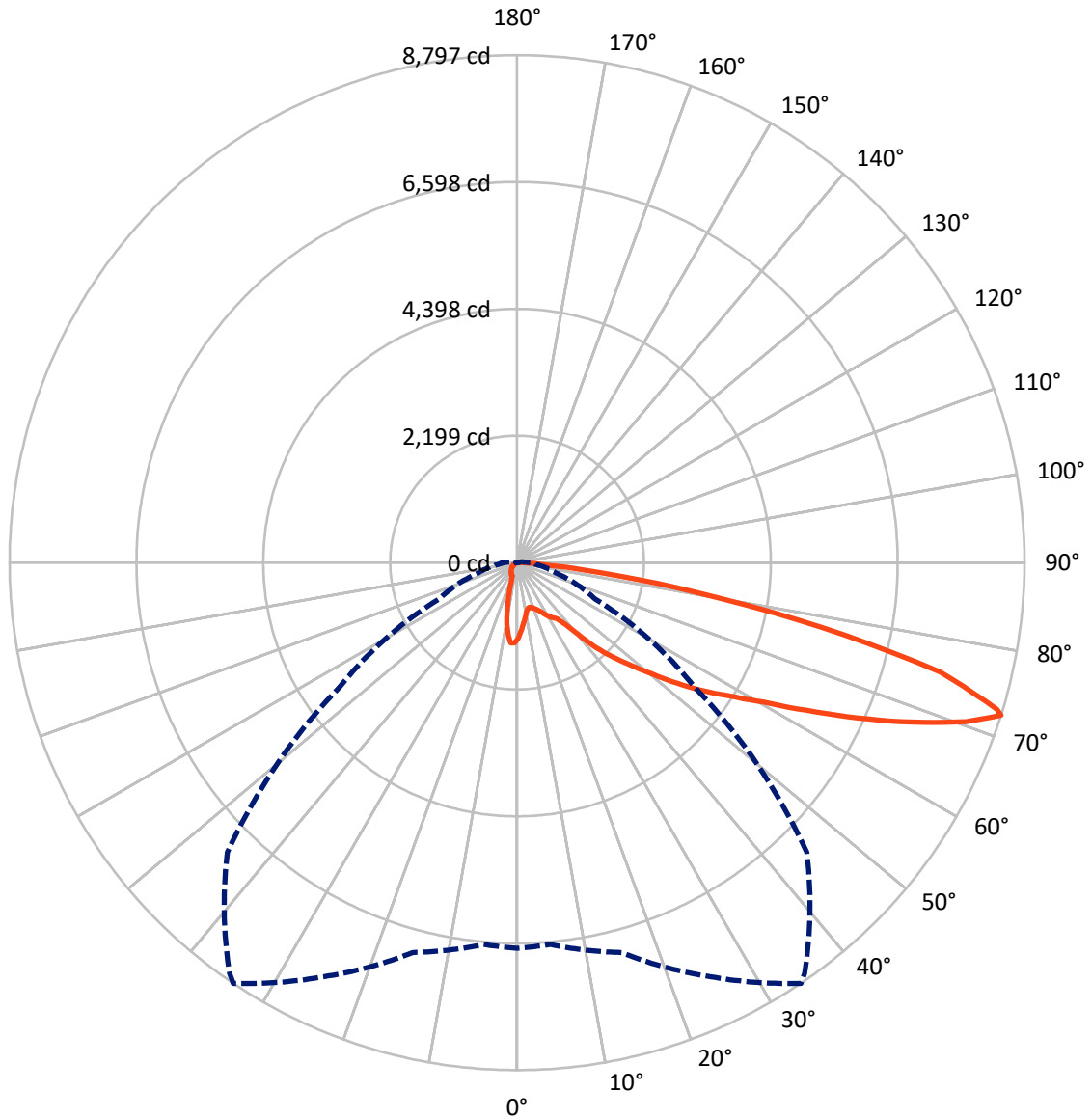
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 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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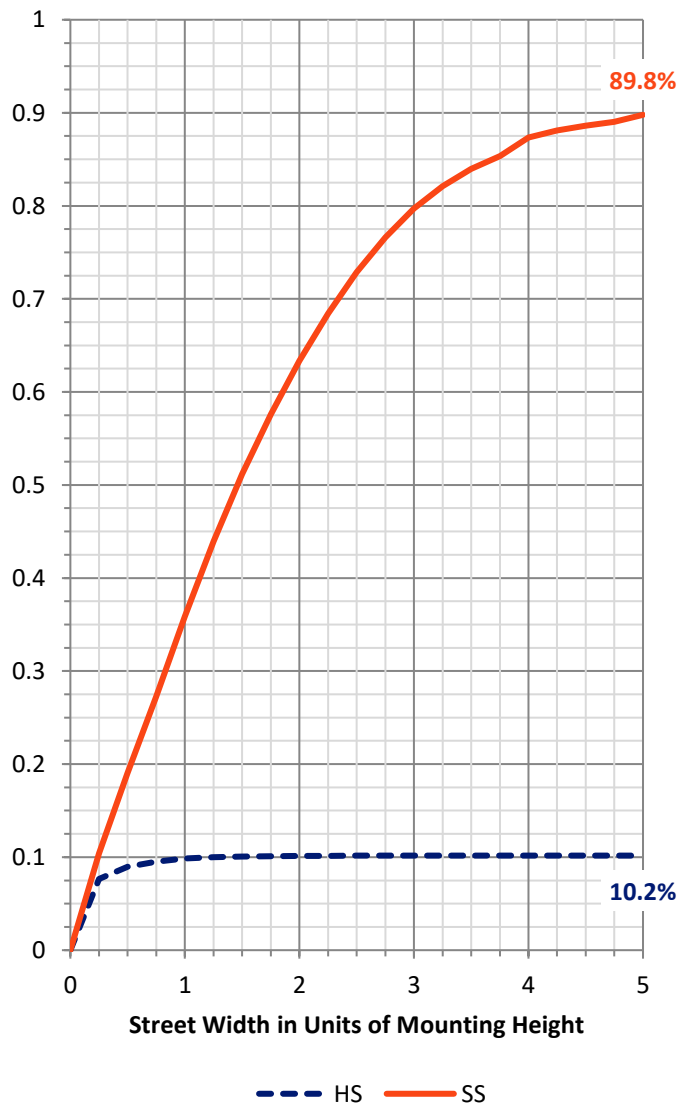
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	927.4	0.0	927.4
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	8131.8	0.0	8131.8
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	9059.2	0.0	9059.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.1	1.3
10°-20°	260.5	2.9
20°-30°	393.2	4.3
30°-40°	638.0	7.0
40°-50°	1199.8	13.2
50°-60°	1961.7	21.7
60°-70°	2607.8	28.8
70°-80°	1746.4	19.3
80°-90°	136.9	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°	9059.2	100.0
0°-180°	9059.2	100.0

**Coefficient of Utilization**



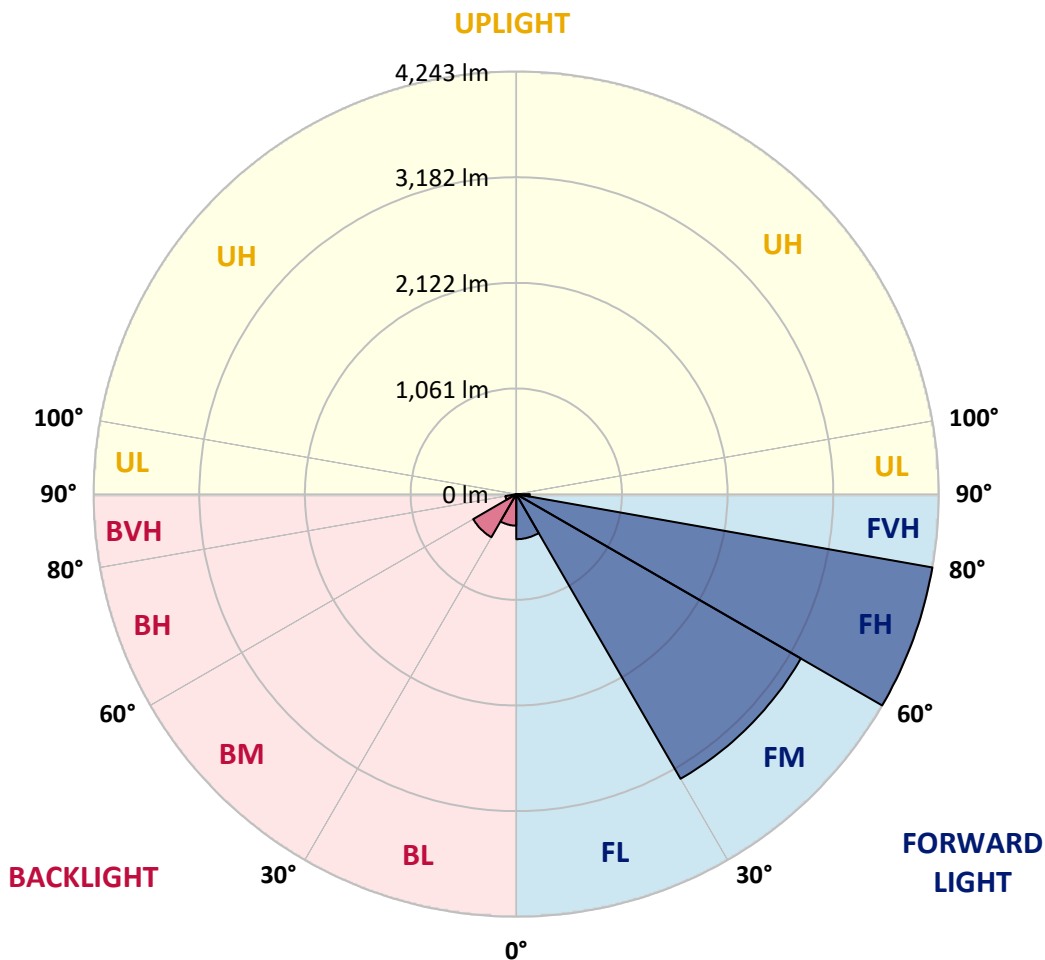
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	452.3	5.0			
FM (30°-60°)	3300.3	36.4			
FH (60°-80°)	4243.3	46.8			G2/5000
FVH (80°-90°)	136.0	1.5			G2/225
BL (0°-30°)	316.4	3.5	B1/500		
BM (30°-60°)	499.2	5.5	B1/1000		
BH (60°-80°)	110.9	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°	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4
2.5°	1172.1	1169.5	1177.4	1190.5	1203.6	1198.3	1223.2	1249.4	1267.7	1292.6	1322.8
5°	1024.1	1030.7	1038.6	1064.7	1081.8	1085.7	1131.5	1165.6	1221.9	1279.5	1333.2
7.5°	889.3	897.1	912.8	941.6	977.0	986.2	1032.0	1100.1	1173.5	1249.4	1337.2
10°	791.0	798.9	815.9	834.2	881.4	881.4	944.3	1038.6	1134.2	1223.2	1338.5
12.5°	770.1	774.0	772.7	787.1	817.2	823.8	885.3	988.8	1100.1	1214.0	1359.4
15°	795.0	797.6	784.5	776.6	802.8	809.4	867.0	958.7	1077.8	1219.3	1393.5
17.5°	844.7	835.6	809.4	797.6	819.8	823.8	877.5	957.4	1075.2	1233.7	1432.8
20°	873.5	884.0	838.2	815.9	847.3	852.6	910.2	978.3	1088.3	1258.6	1487.8
22.5°	924.6	929.9	868.3	853.9	884.0	884.0	949.5	1020.2	1119.8	1299.2	1553.2
25°	996.6	990.1	918.1	903.7	932.5	944.3	1009.7	1087.0	1168.2	1337.2	1613.5
27.5°	1053.0	1056.9	998.0	960.0	1008.4	1016.3	1087.0	1159.0	1204.9	1368.6	1686.8
30°	1136.8	1128.9	1066.1	1022.8	1083.1	1084.4	1152.5	1227.1	1275.6	1424.9	1796.8
32.5°	1236.3	1220.6	1148.6	1087.0	1135.5	1147.3	1216.7	1325.4	1385.6	1531.0	1967.1
35°	1447.2	1409.2	1291.3	1195.7	1199.6	1204.9	1312.3	1468.1	1537.5	1665.9	2195.0
37.5°	1754.9	1739.2	1605.6	1423.6	1354.2	1338.5	1459.0	1656.7	1743.1	1844.0	2491.0
40°	2060.1	2037.8	1913.4	1775.9	1650.2	1618.7	1679.0	1906.9	1985.4	2091.5	2794.8
42.5°	2399.3	2360.0	2213.3	2102.0	2023.4	1989.4	1965.8	2221.2	2310.2	2382.3	3092.1
45°	2742.4	2678.2	2466.1	2381.0	2339.0	2320.7	2318.1	2616.7	2670.4	2684.8	3422.1
47.5°	3043.6	2974.2	2781.7	2686.1	2654.7	2649.4	2796.1	3072.4	3030.5	2992.6	3790.1
50°	3275.4	3230.9	3092.1	3058.0	3034.5	3025.3	3368.4	3541.3	3347.5	3280.7	4113.6
52.5°	3634.3	3534.8	3377.6	3389.4	3471.9	3473.2	3948.6	3986.6	3610.7	3478.4	4418.8
55°	3921.1	3855.6	3727.3	3710.3	3927.7	3951.2	4468.5	4324.5	3757.4	3667.0	4531.4
57.5°	4259.0	4228.9	4135.9	4138.5	4366.4	4416.2	4930.8	4610.0	3879.2	3788.8	4548.4
60°	4747.5	4661.1	4612.6	4634.9	4903.3	4951.8	5378.7	4815.6	3938.1	3868.7	4506.5
62.5°	5287.1	5186.2	5133.8	5247.8	5639.4	5647.2	5719.3	4997.6	3901.5	3889.7	4236.7
65°	5936.7	5837.1	5795.2	6024.4	6489.3	6460.5	6197.3	5074.9	3784.9	3678.8	3528.2
67.5°	6583.6	6523.4	6436.9	6802.3	7381.2	7381.2	6693.6	5046.1	3479.8	2953.3	2307.6
70°	6890.1	6932.0	7069.5	7643.1	8257.4	8194.5	7183.5	4714.8	2590.5	1586.0	907.6
72°	6685.8	6642.6	6997.5	7918.2	8796.9	8693.5	7100.9	3748.2	1496.9	695.4	315.6
72.5°	6334.8	6375.4	6863.9	7880.2	8696.1	8781.2	6899.3	3457.5	1231.1	554.0	238.4
75°	3884.4	3953.8	5123.4	6691.0	7577.7	7482.1	5336.8	1647.5	472.8	235.7	85.1
77.5°	1418.4	1476.0	2485.7	4210.5	5389.2	5329.0	3088.2	585.4	256.7	175.5	43.2
80°	369.3	399.4	844.7	1942.2	3169.4	3173.3	1292.6	234.4	174.2	144.1	26.2
82.5°	73.3	81.2	259.3	755.7	1481.2	1461.6	408.6	125.7	131.0	117.9	18.3
85°	9.2	11.8	55.0	256.7	479.3	429.6	100.8	62.9	96.9	91.7	11.8
87.5°	1.3	1.3	13.1	58.9	100.8	98.2	21.0	19.6	43.2	56.3	6.5
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°	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4	1325.4
2.5°	1339.8	1345.0	1363.3	1379.1	1397.4	1402.6	1394.8	1407.9	1389.5	1400.0	1402.6
5°	1342.4	1372.5	1406.6	1428.8	1423.6	1410.5	1400.0	1364.7	1339.8	1330.6	1350.3
7.5°	1360.7	1394.8	1431.5	1431.5	1402.6	1334.5	1269.1	1206.2	1153.8	1127.6	1149.9
10°	1384.3	1419.7	1457.6	1407.9	1300.5	1176.1	1083.1	965.2	885.3	843.4	847.3
12.5°	1415.7	1465.5	1478.6	1363.3	1185.2	1000.6	831.6	667.9	592.0	531.7	533.0
15°	1456.3	1504.8	1465.5	1266.4	1038.6	766.1	563.2	407.3	347.1	315.6	315.6
17.5°	1510.0	1546.7	1461.6	1177.4	840.8	523.9	345.7	275.0	261.9	256.7	256.7
20°	1572.9	1600.4	1423.6	1038.6	624.7	336.6	254.1	246.2	247.5	244.9	244.9
22.5°	1643.6	1652.8	1380.4	877.5	423.0	248.8	237.0	238.4	239.7	237.0	238.4
25°	1718.3	1693.4	1317.5	688.9	281.6	226.6	229.2	231.8	233.1	234.4	234.4
27.5°	1802.1	1752.3	1229.8	504.2	220.0	213.5	221.3	229.2	230.5	230.5	229.2
30°	1925.2	1842.7	1144.6	341.8	193.8	199.1	212.2	221.3	227.9	227.9	226.6
32.5°	2081.0	1937.0	1025.5	233.1	179.4	182.0	192.5	210.9	225.3	226.6	222.6
35°	2297.1	2050.9	901.0	186.0	168.9	170.3	176.8	191.2	216.1	224.0	222.6
37.5°	2525.0	2180.6	746.5	167.6	161.1	159.8	163.7	175.5	197.8	217.4	218.7
40°	2767.3	2316.8	584.1	158.5	154.5	151.9	153.2	158.5	175.5	200.4	205.6
42.5°	2995.2	2439.9	438.7	149.3	148.0	145.4	145.4	146.7	155.8	172.9	175.5
45°	3241.4	2540.7	334.0	142.8	138.8	140.1	134.9	132.3	138.8	140.1	138.8
47.5°	3471.9	2641.6	267.2	134.9	131.0	131.0	124.4	119.2	119.2	107.4	106.1
50°	3688.0	2696.6	213.5	124.4	123.1	121.8	112.6	103.5	95.6	81.2	78.6
52.5°	3867.4	2694.0	165.0	111.3	115.2	111.3	96.9	83.8	72.0	58.9	56.3
55°	3921.1	2568.2	124.4	91.7	98.2	93.0	77.3	65.5	52.4	41.9	40.6
57.5°	3875.3	2377.0	94.3	70.7	76.0	70.7	58.9	48.5	36.7	28.8	26.2
60°	3722.0	2153.1	73.3	55.0	57.6	53.7	44.5	36.7	26.2	18.3	15.7
62.5°	3431.3	1872.8	56.3	43.2	41.9	41.9	34.1	27.5	18.3	10.5	9.2
65°	2815.8	1460.3	43.2	30.1	30.1	30.1	26.2	19.6	11.8	5.2	2.6
67.5°	1768.0	850.0	35.4	23.6	22.3	22.3	18.3	13.1	6.5	1.3	0.0
70°	665.3	311.7	27.5	18.3	17.0	17.0	13.1	7.9	3.9	0.0	0.0
72°	229.2	119.2	22.3	13.1	13.1	11.8	9.2	6.5	2.6	0.0	0.0
72.5°	188.6	95.6	21.0	13.1	11.8	11.8	9.2	6.5	2.6	0.0	0.0
75°	68.1	39.3	14.4	9.2	7.9	7.9	6.5	3.9	1.3	0.0	0.0
77.5°	34.1	24.9	11.8	7.9	6.5	3.9	3.9	2.6	1.3	0.0	0.0
80°	21.0	15.7	6.5	5.2	3.9	2.6	1.3	1.3	0.0	0.0	0.0
82.5°	14.4	9.2	3.9	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0
85°	9.2	3.9	2.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	2.6	1.3	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)