

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: P483346

Luminaire Tested: **IFLD-S-SA3D-827-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483346  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-827-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

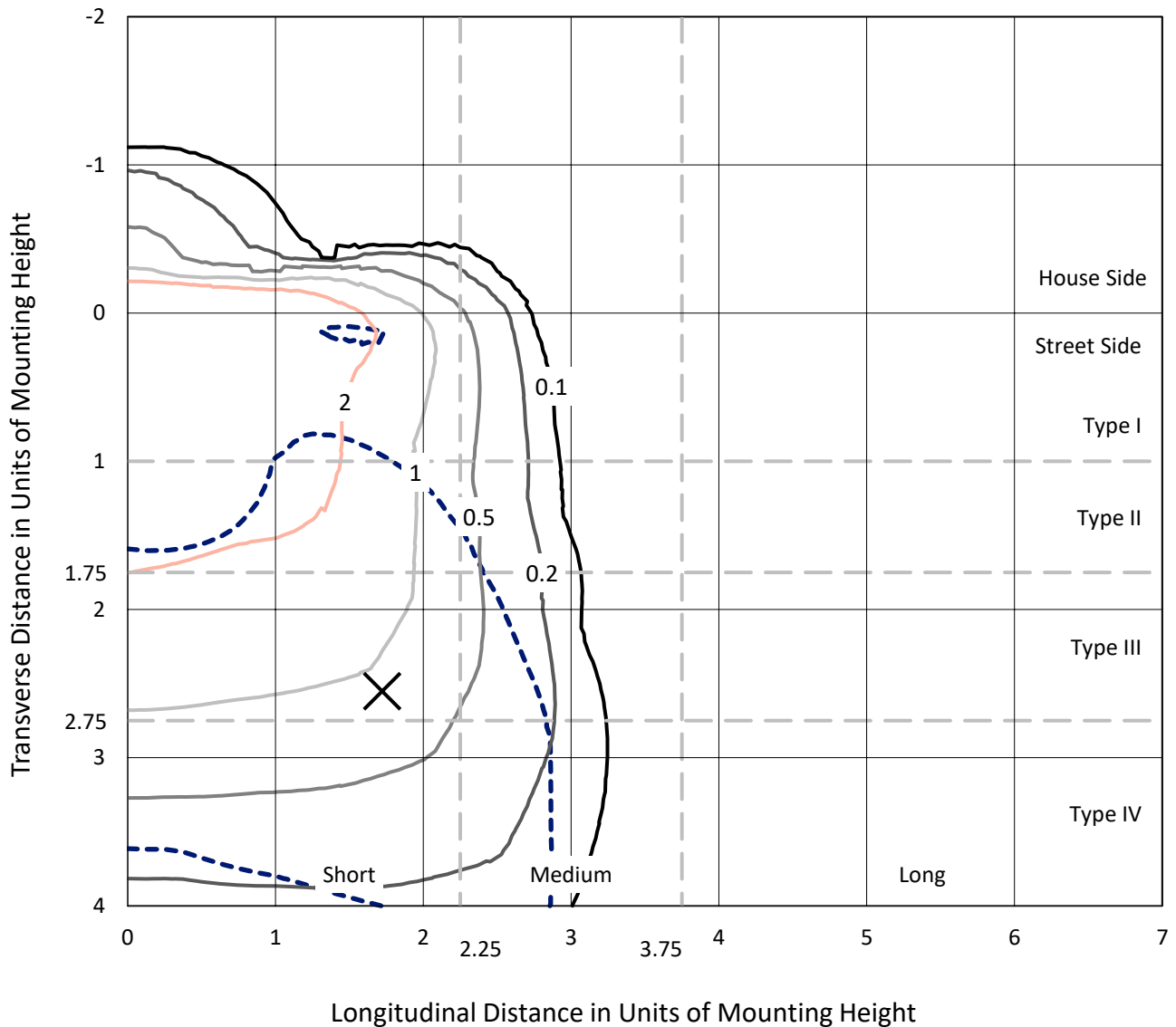
Lumens per Lamp: N/A  
Luminaire Lumens: 12388.6 lumens  
Efficiency: N/A  
Efficacy: 67.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 184.1  
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

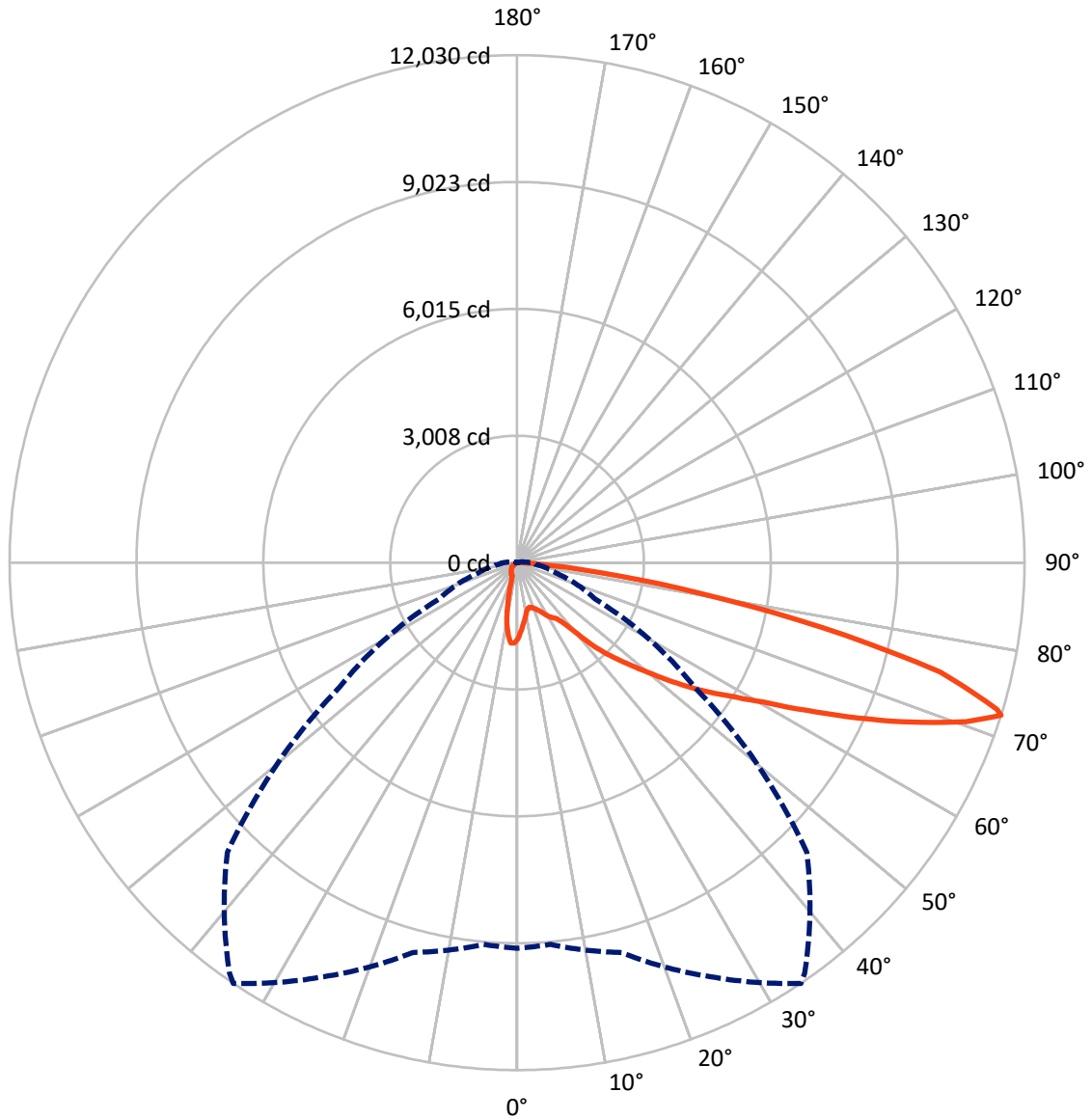
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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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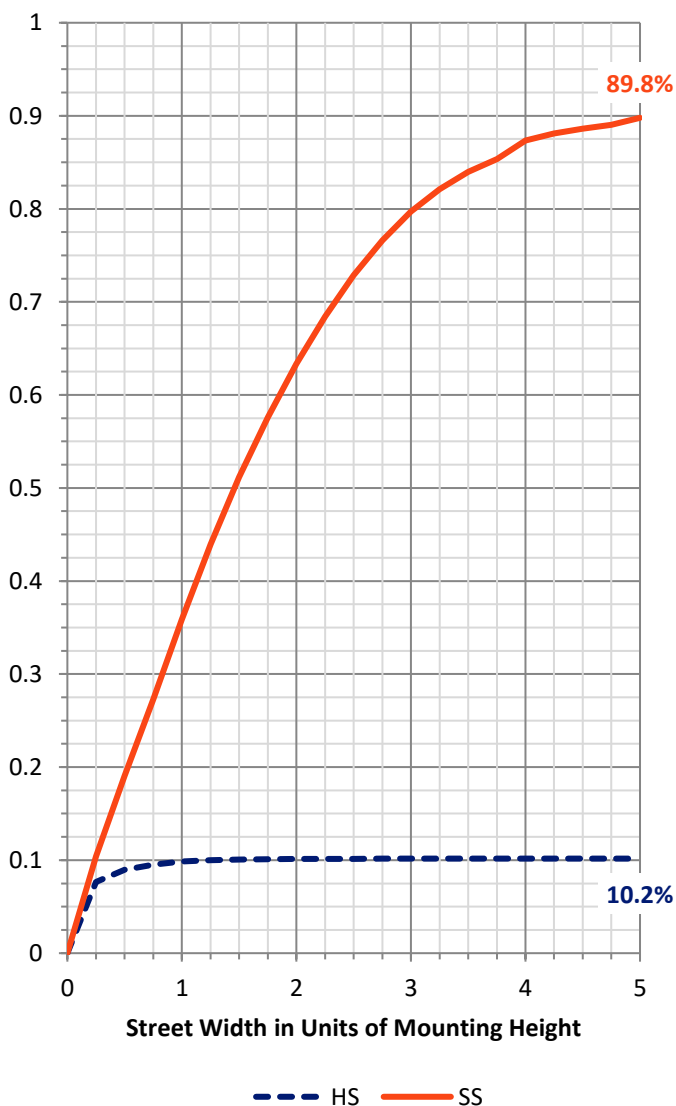
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1268.3	0.0	1268.3
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	11120.3	0.0	11120.3
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	12388.6	0.0	12388.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.3	1.3
10°-20°	356.2	2.9
20°-30°	537.7	4.3
30°-40°	872.5	7.0
40°-50°	1640.7	13.2
50°-60°	2682.6	21.7
60°-70°	3566.2	28.8
70°-80°	2388.2	19.3
80°-90°	187.2	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°	12388.6	100.0
0°-180°	12388.6	100.0



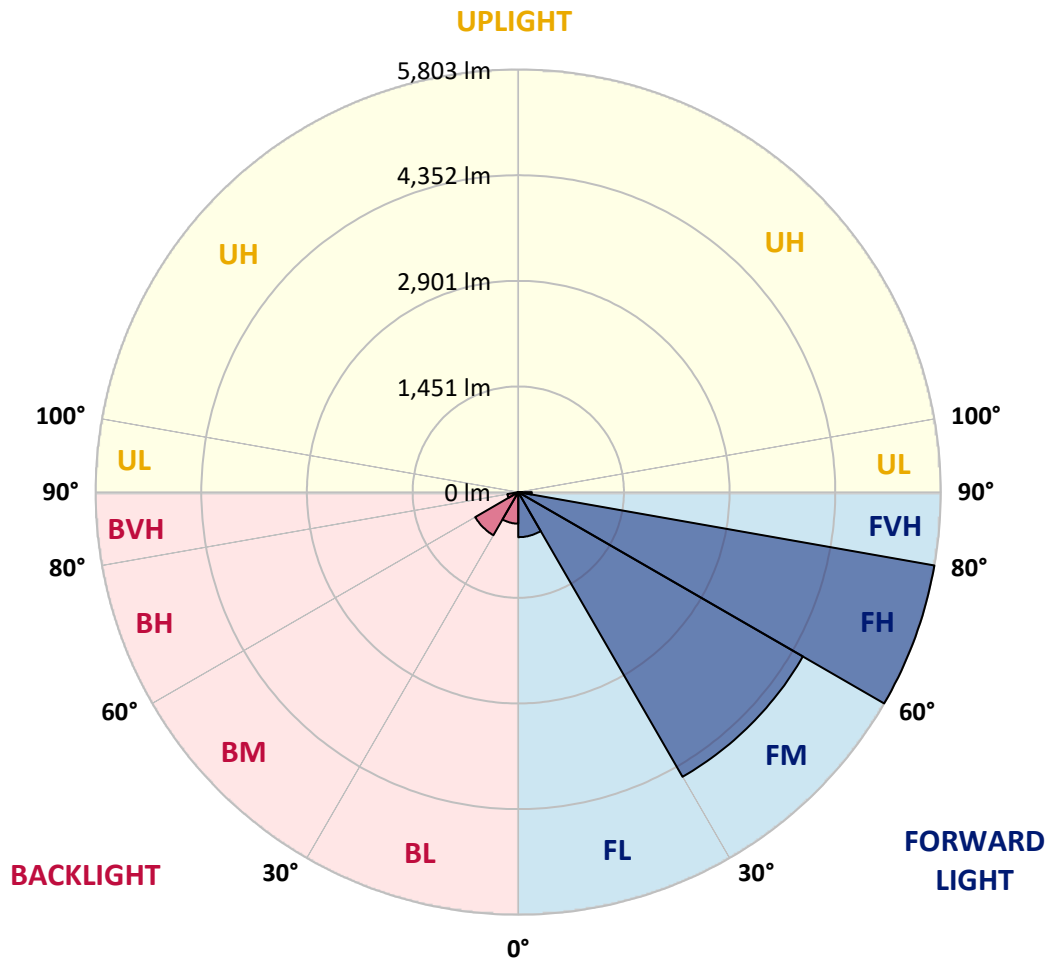
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	618.5	5.0			
FM (30°-60°)	4513.2	36.4			
FH (60°-80°)	5802.7	46.8			G3/7500
FVH (80°-90°)	186.0	1.5			G2/225
BL (0°-30°)	432.7	3.5	B1/500		
BM (30°-60°)	682.7	5.5	B1/1000		
BH (60°-80°)	151.7	1.2	B1/500		G1/500
BVH (80°-90°)	1.2	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1812.5	1812.5	1812.5	1812.5	1812.5	1812.5	1812.5	1812.5	1812.5	1812.5	1812.5
2.5°	1602.9	1599.3	1610.1	1628.0	1645.9	1638.7	1672.8	1708.6	1733.7	1767.7	1808.9
5°	1400.5	1409.5	1420.2	1456.1	1479.3	1484.7	1547.4	1594.0	1671.0	1749.8	1823.2
7.5°	1216.1	1226.8	1248.3	1287.7	1336.1	1348.6	1411.3	1504.4	1604.7	1708.6	1828.6
10°	1081.8	1092.5	1115.8	1140.9	1205.3	1205.3	1291.3	1420.2	1551.0	1672.8	1830.4
12.5°	1053.1	1058.5	1056.7	1076.4	1117.6	1126.5	1210.7	1352.2	1504.4	1660.2	1859.0
15°	1087.1	1090.7	1072.8	1062.0	1097.9	1106.8	1185.6	1311.0	1474.0	1667.4	1905.6
17.5°	1155.2	1142.6	1106.8	1090.7	1121.2	1126.5	1200.0	1309.2	1470.4	1687.1	1959.3
20°	1194.6	1208.9	1146.2	1115.8	1158.8	1165.9	1244.7	1337.9	1488.3	1721.1	2034.6
22.5°	1264.4	1271.6	1187.4	1167.7	1208.9	1208.9	1298.5	1395.2	1531.3	1776.6	2124.1
25°	1362.9	1354.0	1255.5	1235.8	1275.2	1291.3	1380.8	1486.5	1597.6	1828.6	2206.5
27.5°	1439.9	1445.3	1364.7	1312.8	1379.1	1389.8	1486.5	1585.0	1647.7	1871.6	2306.8
30°	1554.6	1543.8	1457.9	1398.8	1481.1	1482.9	1576.1	1678.1	1744.4	1948.6	2457.2
32.5°	1690.7	1669.2	1570.7	1486.5	1552.8	1568.9	1663.8	1812.5	1894.9	2093.7	2690.0
35°	1979.0	1927.1	1765.9	1635.2	1640.5	1647.7	1794.6	2007.7	2102.6	2278.1	3001.7
37.5°	2399.9	2378.4	2195.7	1946.8	1851.9	1830.4	1995.1	2265.6	2383.8	2521.7	3406.4
40°	2817.2	2786.8	2616.6	2428.6	2256.6	2213.6	2296.0	2607.7	2715.1	2860.2	3821.9
42.5°	3281.1	3227.3	3026.8	2874.5	2767.1	2720.5	2688.3	3037.5	3159.3	3257.8	4228.5
45°	3750.3	3662.5	3372.4	3256.0	3198.7	3173.6	3170.0	3578.4	3651.8	3671.5	4679.8
47.5°	4162.2	4067.3	3804.0	3673.3	3630.3	3623.1	3823.7	4201.6	4144.3	4092.4	5183.1
50°	4479.2	4418.3	4228.5	4181.9	4149.7	4137.2	4606.4	4842.8	4577.7	4486.4	5625.5
52.5°	4970.0	4833.8	4618.9	4635.0	4747.9	4749.7	5399.8	5451.7	4937.7	4756.8	6042.8
55°	5362.2	5272.6	5097.1	5073.8	5371.1	5403.4	6110.8	5913.8	5138.3	5014.7	6196.8
57.5°	5824.3	5783.1	5655.9	5659.5	5971.1	6039.2	6743.0	6304.2	5304.9	5181.3	6220.1
60°	6492.3	6374.1	6307.8	6338.3	6705.4	6771.7	7355.5	6585.4	5385.5	5290.5	6162.8
62.5°	7230.2	7092.3	7020.6	7176.4	7711.9	7722.7	7821.2	6834.4	5335.3	5319.2	5793.8
65°	8118.5	7982.4	7925.1	8238.5	8874.3	8834.9	8474.9	6940.0	5175.9	5030.9	4824.9
67.5°	9003.2	8920.9	8802.7	9302.3	10093.9	10093.9	9153.7	6900.6	4758.6	4038.7	3155.7
70°	9422.3	9479.6	9667.7	10452.1	11292.1	11206.1	9823.5	6447.5	3542.6	2168.9	1241.1
72°	9142.9	9083.8	9569.2	10828.2	12030.0	11888.5	9710.7	5125.8	2047.1	951.0	431.6
72.5°	8663.0	8718.5	9386.5	10776.3	11892.1	12008.5	9434.9	4728.2	1683.5	757.6	326.0
75°	5312.0	5407.0	7006.3	9150.1	10362.6	10231.9	7298.2	2253.0	646.5	322.4	116.4
77.5°	1939.6	2018.4	3399.3	5758.0	7369.9	7287.5	4223.1	800.6	351.0	240.0	59.1
80°	505.1	546.2	1155.2	2656.0	4334.2	4339.5	1767.7	320.6	238.2	197.0	35.8
82.5°	100.3	111.0	354.6	1033.4	2025.6	1998.7	558.8	171.9	179.1	161.2	25.1
85°	12.5	16.1	75.2	351.0	655.5	587.4	137.9	86.0	132.5	125.4	16.1
87.5°	1.8	1.8	17.9	80.6	137.9	134.3	28.7	26.9	59.1	77.0	9.0
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°	1812.5	1812.5	1812.5	1812.5	1812.5	1812.5	1812.5	1812.5	1812.5	1812.5	1812.5
2.5°	1832.2	1839.3	1864.4	1885.9	1911.0	1918.1	1907.4	1925.3	1900.2	1914.6	1918.1
5°	1835.8	1876.9	1923.5	1954.0	1946.8	1928.9	1914.6	1866.2	1832.2	1819.6	1846.5
7.5°	1860.8	1907.4	1957.5	1957.5	1918.1	1825.0	1735.5	1649.5	1577.9	1542.0	1572.5
10°	1893.1	1941.4	1993.4	1925.3	1778.4	1608.3	1481.1	1320.0	1210.7	1153.4	1158.8
12.5°	1936.0	2004.1	2022.0	1864.4	1620.8	1368.3	1137.3	913.4	809.5	727.1	728.9
15°	1991.6	2057.8	2004.1	1731.9	1420.2	1047.7	770.1	557.0	474.6	431.6	431.6
17.5°	2065.0	2115.1	1998.7	1610.1	1149.8	716.4	472.8	376.1	358.2	351.0	351.0
20°	2151.0	2188.6	1946.8	1420.2	854.3	460.3	347.4	336.7	338.5	334.9	334.9
22.5°	2247.7	2260.2	1887.7	1200.0	578.5	340.3	324.2	326.0	327.7	324.2	326.0
25°	2349.8	2315.7	1801.7	942.1	385.1	309.8	313.4	317.0	318.8	320.6	320.6
27.5°	2464.4	2396.3	1681.7	689.5	300.9	291.9	302.7	313.4	315.2	315.2	313.4
30°	2632.7	2519.9	1565.3	467.4	265.1	272.2	290.1	302.7	311.6	311.6	309.8
32.5°	2845.9	2648.9	1402.3	318.8	245.4	248.9	263.3	288.3	308.0	309.8	304.5
35°	3141.4	2804.7	1232.2	254.3	231.0	232.8	241.8	261.5	295.5	306.3	304.5
37.5°	3453.0	2982.0	1020.9	229.2	220.3	218.5	223.9	240.0	270.4	297.3	299.1
40°	3784.3	3168.2	798.8	216.7	211.3	207.8	209.5	216.7	240.0	274.0	281.2
42.5°	4096.0	3336.6	600.0	204.2	202.4	198.8	198.8	200.6	213.1	236.4	240.0
45°	4432.7	3474.5	456.7	195.2	189.8	191.6	184.5	180.9	189.8	191.6	189.8
47.5°	4747.9	3612.4	365.4	184.5	179.1	179.1	170.1	163.0	163.0	146.9	145.1
50°	5043.4	3687.6	291.9	170.1	168.4	166.6	154.0	141.5	130.7	111.0	107.5
52.5°	5288.8	3684.0	225.7	152.2	157.6	152.2	132.5	114.6	98.5	80.6	77.0
55°	5362.2	3512.1	170.1	125.4	134.3	127.2	105.7	89.5	71.6	57.3	55.5
57.5°	5299.5	3250.6	129.0	96.7	103.9	96.7	80.6	66.3	50.1	39.4	35.8
60°	5090.0	2944.4	100.3	75.2	78.8	73.4	60.9	50.1	35.8	25.1	21.5
62.5°	4692.4	2561.1	77.0	59.1	57.3	57.3	46.6	37.6	25.1	14.3	12.5
65°	3850.6	1996.9	59.1	41.2	41.2	41.2	35.8	26.9	16.1	7.2	3.6
67.5°	2417.8	1162.3	48.4	32.2	30.4	30.4	25.1	17.9	9.0	1.8	0.0
70°	909.8	426.3	37.6	25.1	23.3	23.3	17.9	10.7	5.4	0.0	0.0
72°	313.4	163.0	30.4	17.9	17.9	16.1	12.5	9.0	3.6	0.0	0.0
72.5°	257.9	130.7	28.7	17.9	16.1	16.1	12.5	9.0	3.6	0.0	0.0
75°	93.1	53.7	19.7	12.5	10.7	10.7	9.0	5.4	1.8	0.0	0.0
77.5°	46.6	34.0	16.1	10.7	9.0	5.4	5.4	3.6	1.8	0.0	0.0
80°	28.7	21.5	9.0	7.2	5.4	3.6	1.8	1.8	0.0	0.0	0.0
82.5°	19.7	12.5	5.4	5.4	3.6	1.8	0.0	0.0	0.0	0.0	0.0
85°	12.5	5.4	3.6	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	3.6	1.8	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)