

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: P483345

Luminaire Tested: **IFLD-S-SA3C-827-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483345  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-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**

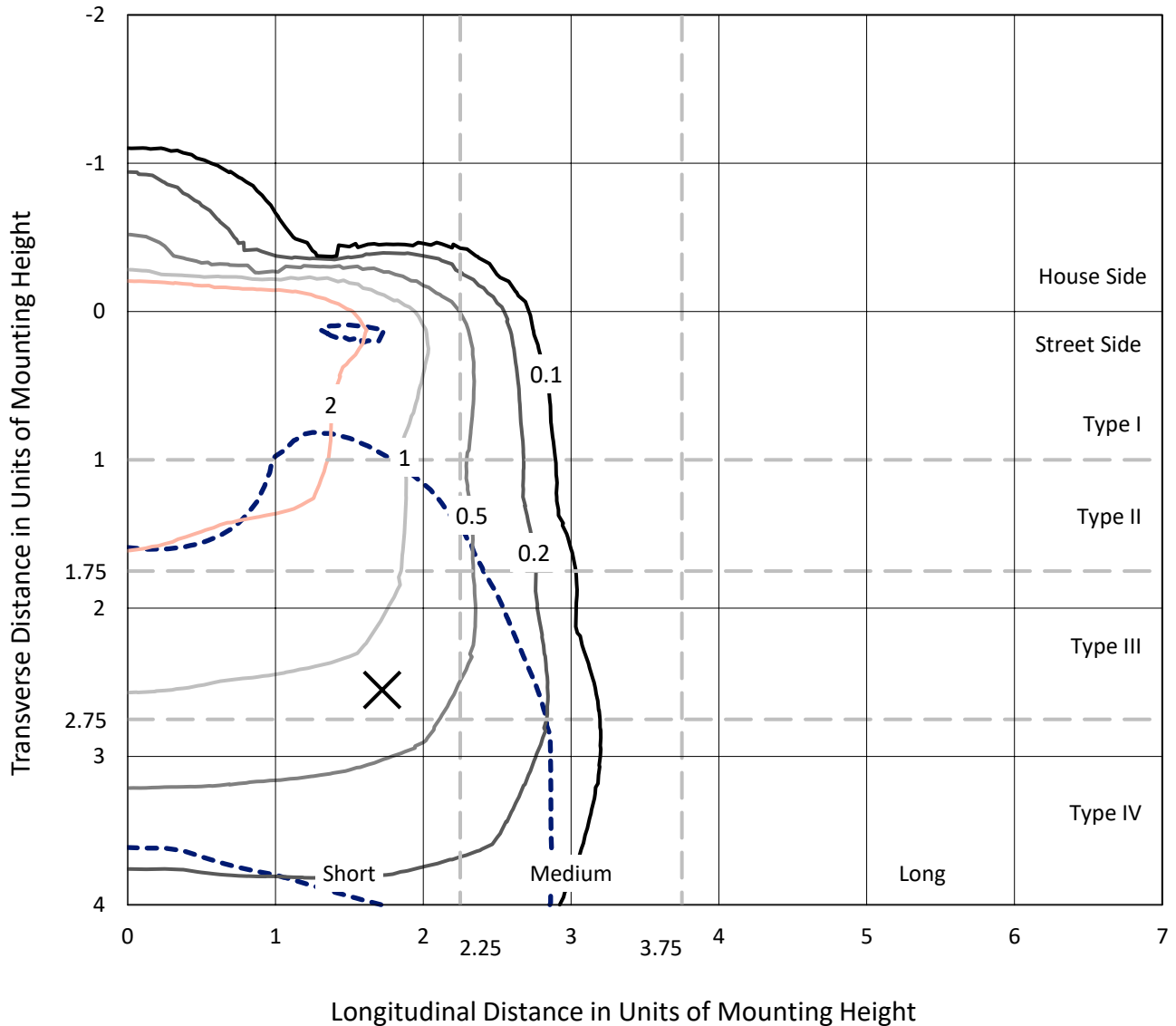
Lumens per Lamp: N/A  
Luminaire Lumens: 11259.1 lumens  
Efficiency: N/A  
Efficacy: 70.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.8  
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

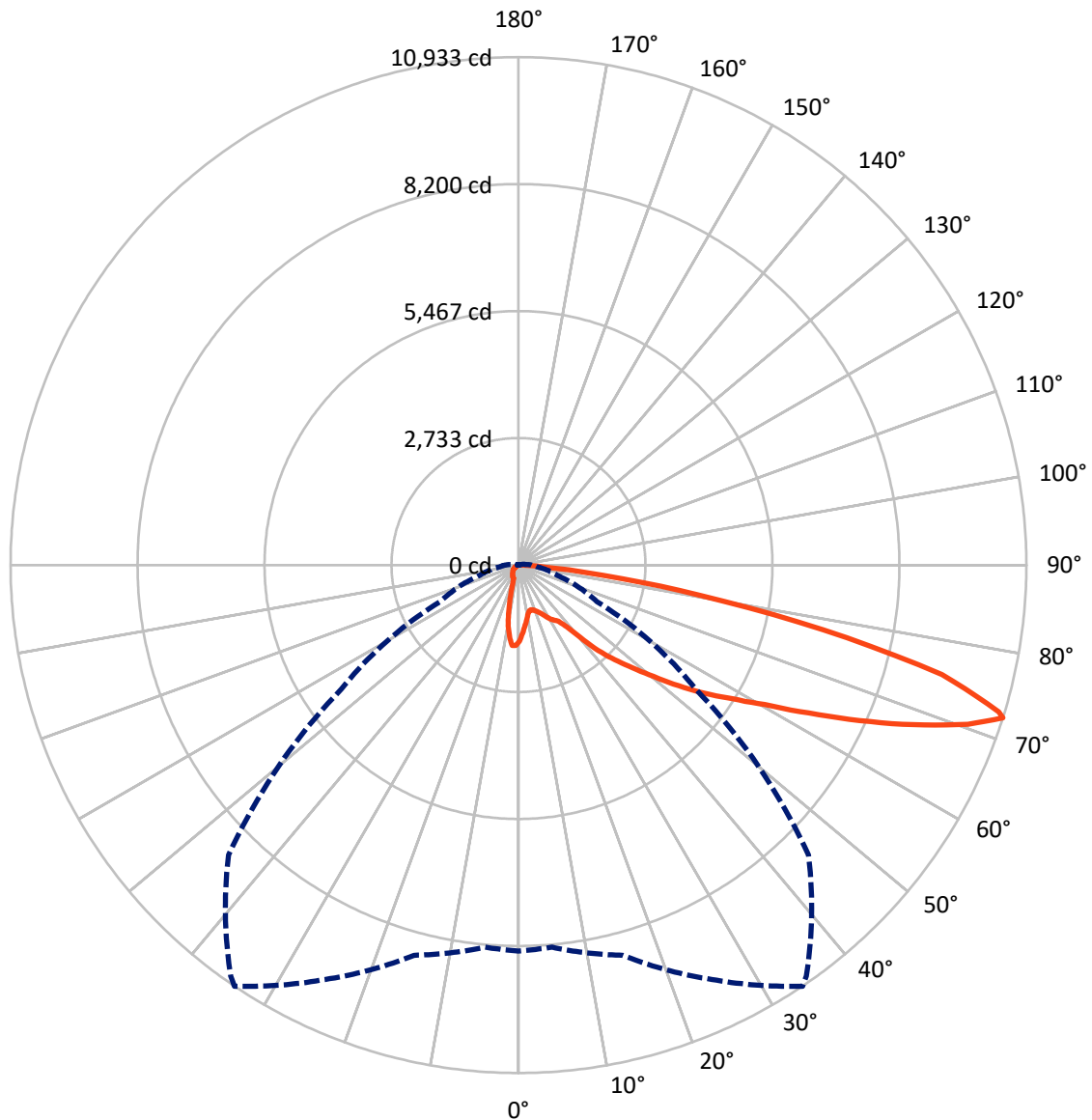
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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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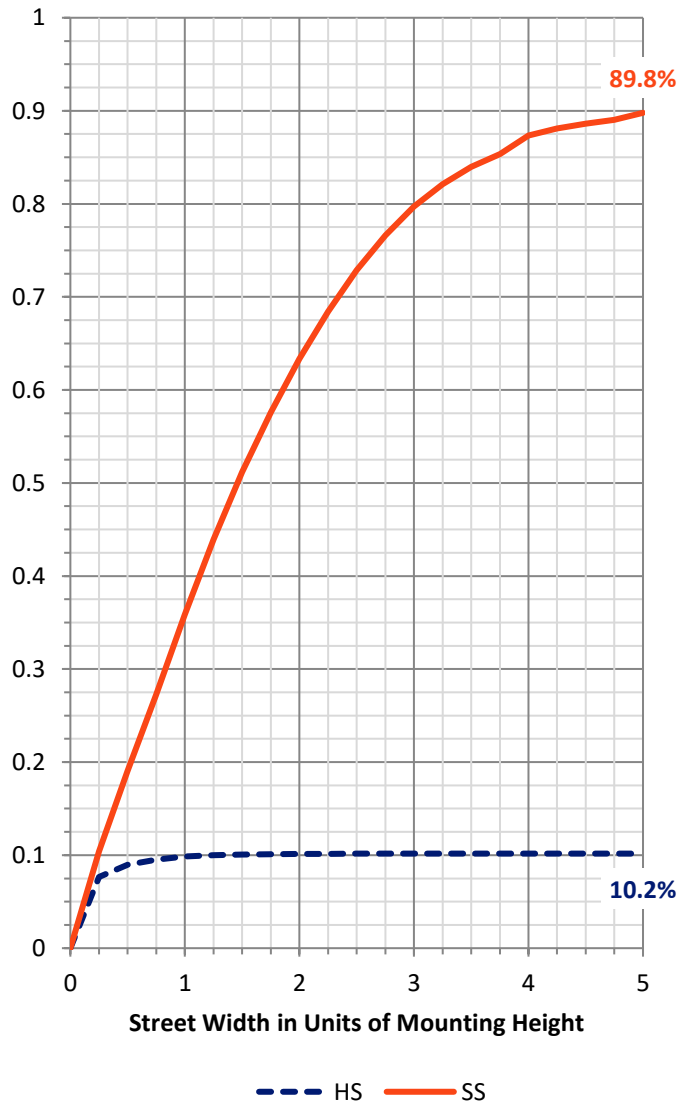
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1152.7	0.0	1152.7
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	10106.4	0.0	10106.4
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	11259.1	0.0	11259.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.0	1.3
10°-20°	323.7	2.9
20°-30°	488.6	4.3
30°-40°	793.0	7.0
40°-50°	1491.1	13.2
50°-60°	2438.0	21.7
60°-70°	3241.0	28.8
70°-80°	2170.5	19.3
80°-90°	170.1	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°	11259.1	100.0
0°-180°	11259.1	100.0

**Coefficient of Utilization**



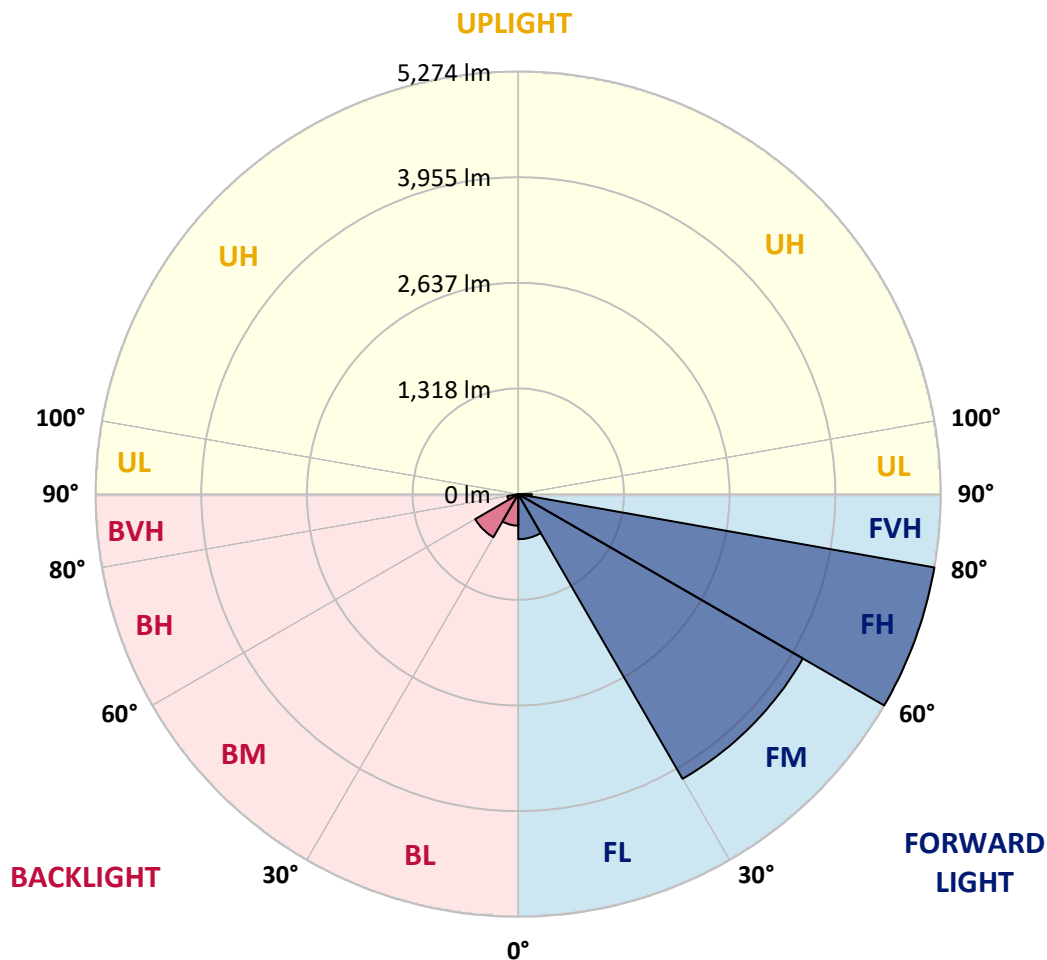
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	562.1	5.0			
FM (30°-60°)	4101.7	36.4			
FH (60°-80°)	5273.7	46.8			G3/7500
FVH (80°-90°)	169.0	1.5			G2/225
BL (0°-30°)	393.3	3.5	B1/500		
BM (30°-60°)	620.5	5.5	B1/1000		
BH (60°-80°)	137.8	1.2	B1/500		G1/500
BVH (80°-90°)	1.1	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°	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2
2.5°	1456.8	1453.5	1463.3	1479.6	1495.8	1489.3	1520.3	1552.8	1575.6	1606.5	1644.0
5°	1272.8	1281.0	1290.8	1323.3	1344.5	1349.3	1406.3	1448.6	1518.6	1590.2	1657.0
7.5°	1105.2	1115.0	1134.5	1170.3	1214.3	1225.6	1282.6	1367.3	1458.4	1552.8	1661.9
10°	983.1	992.9	1014.0	1036.8	1095.4	1095.4	1173.6	1290.8	1409.6	1520.3	1663.5
12.5°	957.1	962.0	960.3	978.2	1015.7	1023.8	1100.3	1228.9	1367.3	1508.9	1689.5
15°	988.0	991.3	975.0	965.2	997.8	1005.9	1077.5	1191.5	1339.6	1515.4	1731.9
17.5°	1049.9	1038.5	1005.9	991.3	1018.9	1023.8	1090.5	1189.8	1336.3	1533.3	1780.7
20°	1085.7	1098.7	1041.7	1014.0	1053.1	1059.6	1131.2	1215.9	1352.6	1564.2	1849.0
22.5°	1149.1	1155.7	1079.2	1061.2	1098.7	1098.7	1180.1	1268.0	1391.7	1614.7	1930.4
25°	1238.7	1230.5	1141.0	1123.1	1158.9	1173.6	1254.9	1351.0	1451.9	1661.9	2005.3
27.5°	1308.7	1313.5	1240.3	1193.1	1253.3	1263.1	1351.0	1440.5	1497.5	1700.9	2096.5
30°	1412.8	1403.1	1324.9	1271.2	1346.1	1347.7	1432.4	1525.1	1585.4	1770.9	2233.2
32.5°	1536.5	1517.0	1427.5	1351.0	1411.2	1425.9	1512.1	1647.2	1722.1	1902.8	2444.8
35°	1798.6	1751.4	1604.9	1486.1	1491.0	1497.5	1630.9	1824.6	1910.9	2070.4	2728.0
37.5°	2181.1	2161.6	1995.5	1769.3	1683.0	1663.5	1813.2	2059.0	2166.4	2291.8	3095.9
40°	2560.3	2532.7	2378.0	2207.1	2050.9	2011.8	2086.7	2369.9	2467.6	2599.4	3473.5
42.5°	2981.9	2933.1	2750.8	2612.4	2514.8	2472.5	2443.2	2760.6	2871.2	2960.8	3843.0
45°	3408.4	3328.6	3064.9	2959.1	2907.0	2884.3	2881.0	3252.1	3318.8	3336.8	4253.1
47.5°	3782.7	3696.5	3457.2	3338.4	3299.3	3292.8	3475.1	3818.5	3766.5	3719.3	4710.5
50°	4070.8	4015.5	3843.0	3800.6	3771.3	3759.9	4186.4	4401.3	4160.4	4077.3	5112.6
52.5°	4516.8	4393.1	4197.8	4212.4	4315.0	4316.6	4907.5	4954.7	4487.5	4323.1	5491.8
55°	4873.3	4791.9	4632.4	4611.2	4881.4	4910.7	5553.7	5374.6	4669.8	4557.5	5631.8
57.5°	5293.2	5255.8	5140.2	5143.5	5426.7	5488.5	6128.2	5729.4	4821.2	4708.9	5652.9
60°	5900.4	5792.9	5732.7	5760.4	6094.0	6154.3	6684.9	5985.0	4894.4	4808.2	5600.9
62.5°	6571.0	6445.6	6380.5	6522.1	7008.8	7018.6	7108.1	6211.2	4848.9	4834.2	5265.6
65°	7378.3	7254.6	7202.5	7487.3	8065.2	8029.4	7702.2	6307.3	4704.0	4572.2	4385.0
67.5°	8182.4	8107.5	8000.1	8454.2	9173.6	9173.6	8319.1	6271.5	4324.8	3670.4	2868.0
70°	8563.2	8615.3	8786.2	9499.2	10262.5	10184.4	8927.8	5859.7	3219.6	1971.1	1128.0
72°	8309.3	8255.6	8696.7	9841.0	10933.2	10804.6	8825.3	4658.4	1860.4	864.3	392.3
72.5°	7873.1	7923.6	8530.7	9793.8	10807.8	10913.6	8574.6	4297.1	1530.0	688.5	296.2
75°	4827.7	4914.0	6367.5	8315.8	9417.8	9299.0	6632.8	2047.6	587.6	293.0	105.8
77.5°	1762.8	1834.4	3089.3	5233.0	6697.9	6623.0	3838.1	727.6	319.0	218.1	53.7
80°	459.0	496.4	1049.9	2413.9	3939.0	3943.9	1606.5	291.4	216.5	179.0	32.6
82.5°	91.2	100.9	322.3	939.2	1840.9	1816.5	507.8	156.3	162.8	146.5	22.8
85°	11.4	14.6	68.4	319.0	595.7	533.9	125.3	78.1	120.4	113.9	14.6
87.5°	1.6	1.6	16.3	73.2	125.3	122.1	26.0	24.4	53.7	70.0	8.1
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°	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2	1647.2
2.5°	1665.1	1671.6	1694.4	1714.0	1736.7	1743.2	1733.5	1749.8	1727.0	1740.0	1743.2
5°	1668.4	1705.8	1748.1	1775.8	1769.3	1753.0	1740.0	1696.0	1665.1	1653.7	1678.1
7.5°	1691.2	1733.5	1779.1	1779.1	1743.2	1658.6	1577.2	1499.1	1434.0	1401.4	1429.1
10°	1720.5	1764.4	1811.6	1749.8	1616.3	1461.7	1346.1	1199.6	1100.3	1048.2	1053.1
12.5°	1759.5	1821.4	1837.7	1694.4	1473.1	1243.6	1033.6	830.1	735.7	660.8	662.5
15°	1810.0	1870.2	1821.4	1574.0	1290.8	952.2	699.9	506.2	431.3	392.3	392.3
17.5°	1876.7	1922.3	1816.5	1463.3	1045.0	651.1	429.7	341.8	325.5	319.0	319.0
20°	1954.8	1989.0	1769.3	1290.8	776.4	418.3	315.8	306.0	307.6	304.4	304.4
22.5°	2042.7	2054.1	1715.6	1090.5	525.7	309.3	294.6	296.2	297.9	294.6	296.2
25°	2135.5	2104.6	1637.4	856.2	350.0	281.6	284.8	288.1	289.7	291.4	291.4
27.5°	2239.7	2177.8	1528.4	626.7	273.5	265.3	275.1	284.8	286.5	286.5	284.8
30°	2392.7	2290.2	1422.6	424.8	240.9	247.4	263.7	275.1	283.2	283.2	281.6
32.5°	2586.4	2407.3	1274.5	289.7	223.0	226.2	239.3	262.1	280.0	281.6	276.7
35°	2855.0	2549.0	1119.8	231.1	210.0	211.6	219.7	237.6	268.6	278.3	276.7
37.5°	3138.2	2710.1	927.8	208.3	200.2	198.6	203.5	218.1	245.8	270.2	271.8
40°	3439.3	2879.4	725.9	196.9	192.1	188.8	190.4	196.9	218.1	249.0	255.5
42.5°	3722.5	3032.4	545.3	185.6	183.9	180.7	180.7	182.3	193.7	214.9	218.1
45°	4028.5	3157.7	415.1	177.4	172.5	174.2	167.7	164.4	172.5	174.2	172.5
47.5°	4315.0	3283.0	332.0	167.7	162.8	162.8	154.6	148.1	148.1	133.5	131.8
50°	4583.6	3351.4	265.3	154.6	153.0	151.4	140.0	128.6	118.8	100.9	97.7
52.5°	4806.6	3348.1	205.1	138.4	143.2	138.4	120.4	104.2	89.5	73.2	70.0
55°	4873.3	3191.9	154.6	113.9	122.1	115.6	96.0	81.4	65.1	52.1	50.5
57.5°	4816.3	2954.2	117.2	87.9	94.4	87.9	73.2	60.2	45.6	35.8	32.6
60°	4625.9	2675.9	91.2	68.4	71.6	66.7	55.3	45.6	32.6	22.8	19.5
62.5°	4264.5	2327.6	70.0	53.7	52.1	52.1	42.3	34.2	22.8	13.0	11.4
65°	3499.5	1814.9	53.7	37.4	37.4	37.4	32.6	24.4	14.6	6.5	3.3
67.5°	2197.4	1056.4	43.9	29.3	27.7	27.7	22.8	16.3	8.1	1.6	0.0
70°	826.9	387.4	34.2	22.8	21.2	21.2	16.3	9.8	4.9	0.0	0.0
72°	284.8	148.1	27.7	16.3	16.3	14.6	11.4	8.1	3.3	0.0	0.0
72.5°	234.4	118.8	26.0	16.3	14.6	14.6	11.4	8.1	3.3	0.0	0.0
75°	84.6	48.8	17.9	11.4	9.8	9.8	8.1	4.9	1.6	0.0	0.0
77.5°	42.3	30.9	14.6	9.8	8.1	4.9	4.9	3.3	1.6	0.0	0.0
80°	26.0	19.5	8.1	6.5	4.9	3.3	1.6	1.6	0.0	0.0	0.0
82.5°	17.9	11.4	4.9	4.9	3.3	1.6	0.0	0.0	0.0	0.0	0.0
85°	11.4	4.9	3.3	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	3.3	1.6	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)