

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: P483129

Luminaire Tested: **IFLD-M-SA4A-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483129
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-727-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

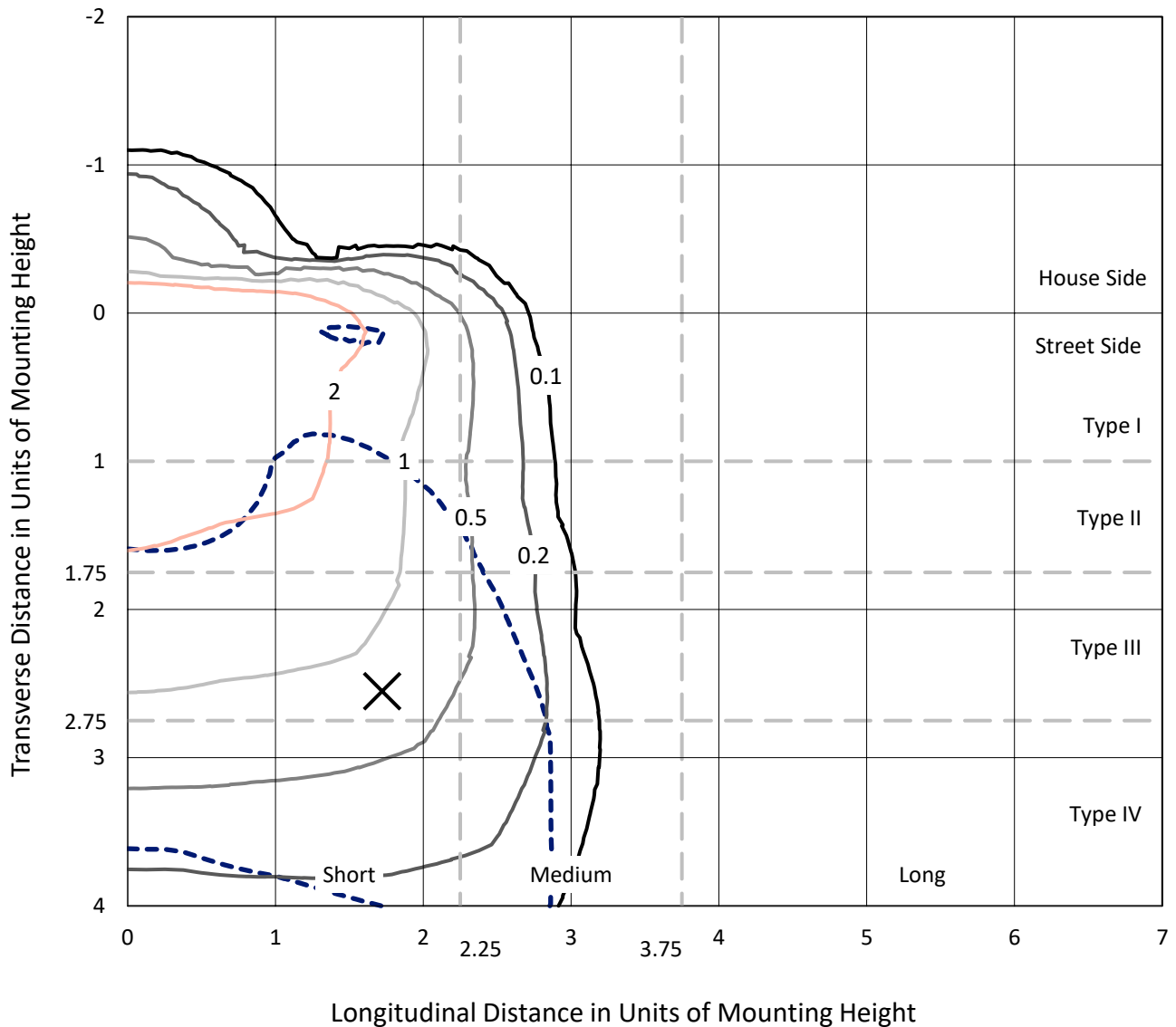
Lumens per Lamp: N/A
Luminaire Lumens: 11167.5 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 128.6
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

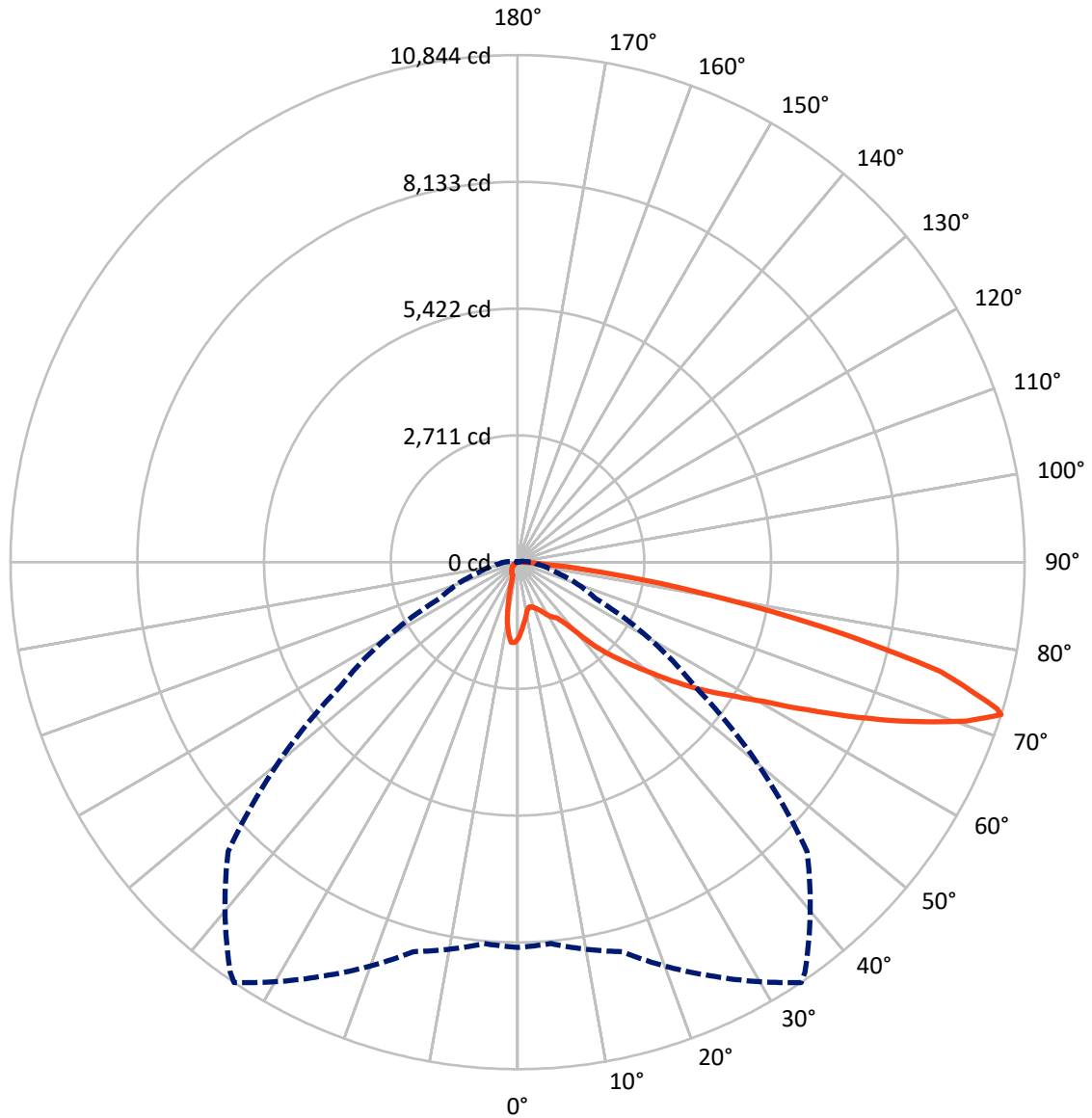
× Max cd
 - - - 1/2 Max cd



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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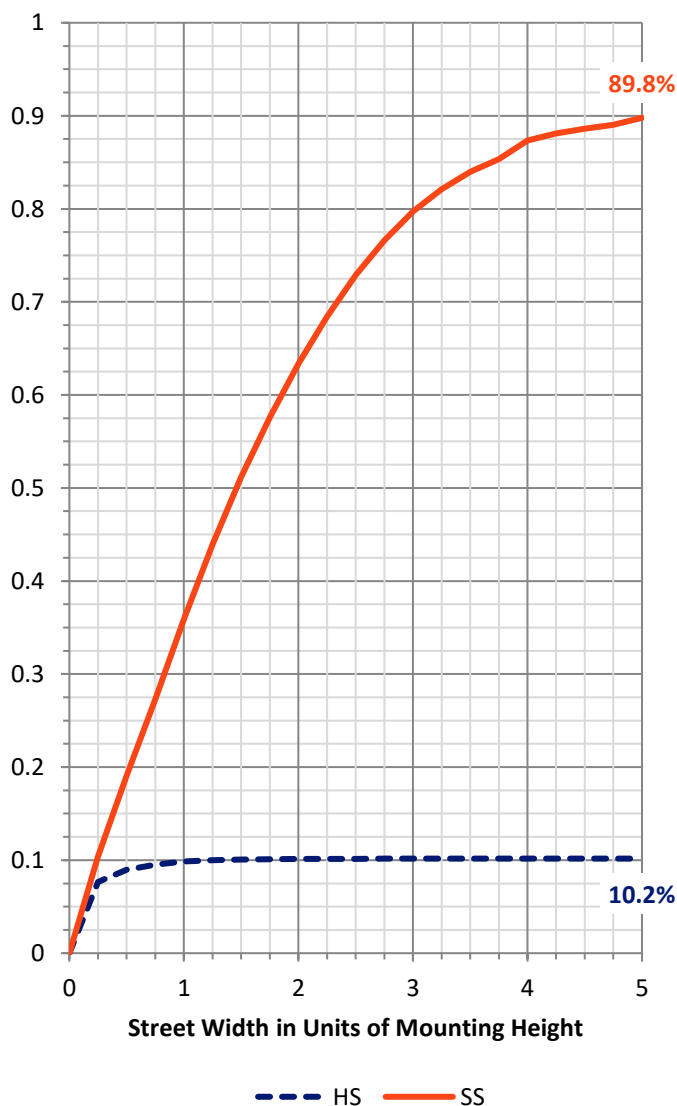
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1143.3	0.0	1143.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	10024.3	0.0	10024.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	11167.5	0.0	11167.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	1.3
10°-20°	321.1	2.9
20°-30°	484.7	4.3
30°-40°	786.5	7.0
40°-50°	1479.0	13.2
50°-60°	2418.2	21.7
60°-70°	3214.7	28.8
70°-80°	2152.8	19.3
80°-90°	168.7	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°	11167.5	100.0
0°-180°	11167.5	100.0

Coefficient of Utilization



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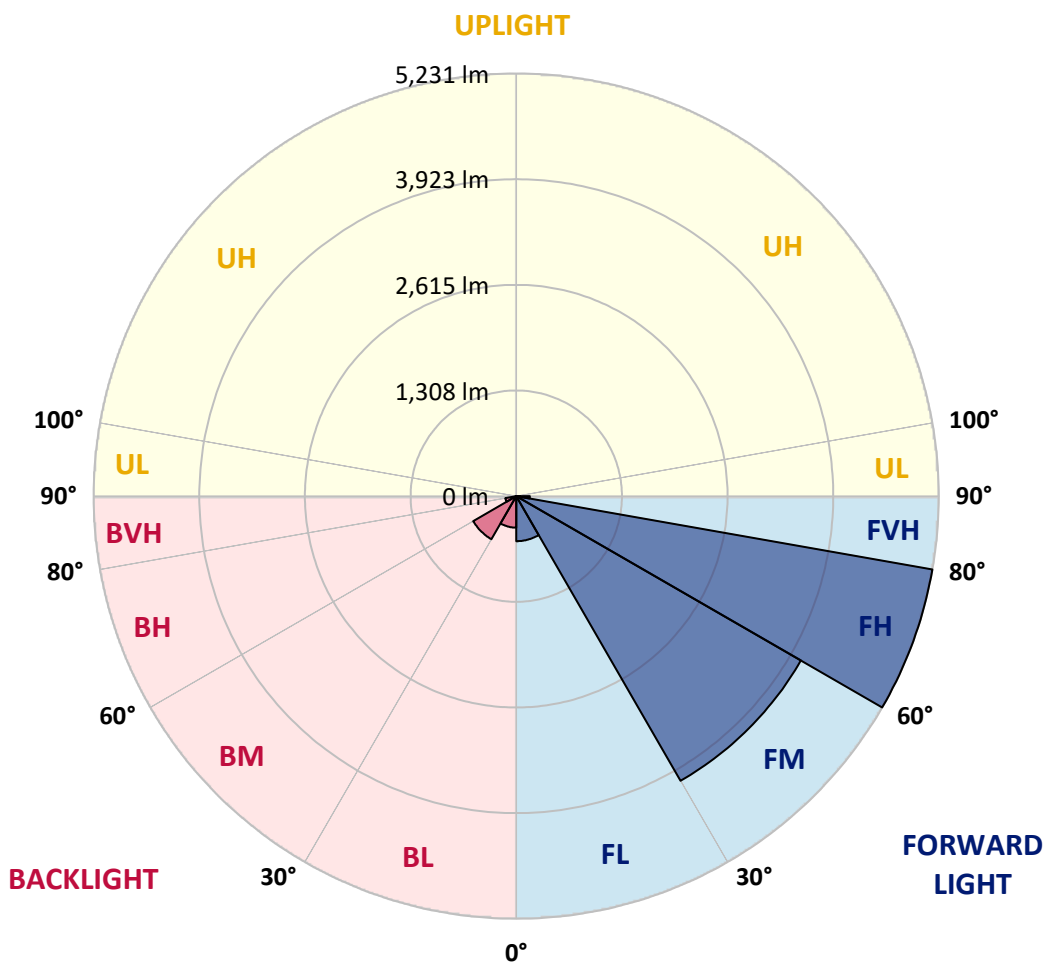
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	557.5	5.0			
FM (30°-60°)	4068.3	36.4			
FH (60°-80°)	5230.8	46.8			G3/7500
FVH (80°-90°)	167.6	1.5			G2/225
BL (0°-30°)	390.1	3.5	B1/500		
BM (30°-60°)	615.4	5.5	B1/1000		
BH (60°-80°)	136.7	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°	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8
2.5°	1444.9	1441.7	1451.4	1467.5	1483.7	1477.2	1507.9	1540.2	1562.8	1593.5	1630.6
5°	1262.5	1270.6	1280.3	1312.5	1333.5	1338.4	1394.9	1436.9	1506.3	1577.3	1643.5
7.5°	1096.2	1105.9	1125.3	1160.8	1204.4	1215.7	1272.2	1356.1	1446.5	1540.2	1648.4
10°	975.1	984.8	1005.8	1028.4	1086.5	1086.5	1164.0	1280.3	1398.1	1507.9	1650.0
12.5°	949.3	954.1	952.5	970.3	1007.4	1015.5	1091.4	1218.9	1356.1	1496.6	1675.8
15°	980.0	983.2	967.1	957.4	989.7	997.7	1068.8	1181.8	1328.7	1503.1	1717.8
17.5°	1041.3	1030.0	997.7	983.2	1010.6	1015.5	1081.7	1180.2	1325.5	1520.8	1766.2
20°	1076.8	1089.8	1033.2	1005.8	1044.5	1051.0	1122.0	1206.0	1341.6	1551.5	1834.0
22.5°	1139.8	1146.3	1070.4	1052.6	1089.8	1089.8	1170.5	1257.7	1380.4	1601.5	1914.7
25°	1228.6	1220.5	1131.7	1114.0	1149.5	1164.0	1244.7	1340.0	1440.1	1648.4	1989.0
27.5°	1298.0	1302.9	1230.2	1183.4	1243.1	1252.8	1340.0	1428.8	1485.3	1687.1	2079.4
30°	1401.3	1391.7	1314.2	1260.9	1335.1	1336.8	1420.7	1512.7	1572.5	1756.5	2215.0
32.5°	1524.0	1504.7	1415.9	1340.0	1399.7	1414.3	1499.8	1633.8	1708.1	1887.3	2424.9
35°	1784.0	1737.1	1591.8	1474.0	1478.8	1485.3	1617.7	1809.8	1895.4	2053.6	2705.8
37.5°	2163.4	2144.0	1979.3	1754.9	1669.3	1650.0	1798.5	2042.3	2148.8	2273.1	3070.7
40°	2539.5	2512.1	2358.7	2189.2	2034.2	1995.5	2069.7	2350.6	2447.5	2578.3	3445.2
42.5°	2957.7	2909.2	2728.4	2591.2	2494.3	2452.3	2423.3	2738.1	2847.9	2936.7	3811.7
45°	3380.7	3301.5	3040.0	2935.1	2883.4	2860.8	2857.6	3225.7	3291.9	3309.6	4218.6
47.5°	3752.0	3666.4	3429.1	3311.2	3272.5	3266.0	3446.8	3787.5	3735.8	3689.0	4672.2
50°	4037.7	3982.8	3811.7	3769.7	3740.7	3729.4	4152.4	4365.5	4126.5	4044.2	5071.0
52.5°	4480.1	4357.4	4163.7	4178.2	4279.9	4281.5	4867.6	4914.4	4451.0	4288.0	5447.1
55°	4833.7	4752.9	4594.7	4573.7	4841.7	4870.8	5508.5	5330.9	4631.9	4520.5	5586.0
57.5°	5250.2	5213.1	5098.4	5101.7	5382.6	5443.9	6078.4	5682.9	4782.0	4670.6	5607.0
60°	5852.4	5745.8	5686.1	5713.5	6044.5	6104.2	6630.5	5936.3	4854.6	4769.1	5555.3
62.5°	6517.5	6393.2	6328.6	6469.1	6951.8	6961.5	7050.3	6160.7	4809.4	4794.9	5222.7
65°	7318.3	7195.6	7143.9	7426.5	7999.6	7964.1	7639.6	6256.0	4665.8	4535.0	4349.3
67.5°	8115.8	8041.6	7935.0	8385.4	9099.0	9099.0	8251.4	6220.5	4289.6	3640.6	2844.7
70°	8493.6	8545.3	8714.8	9421.9	10179.1	10101.6	8855.2	5812.0	3193.4	1955.1	1118.8
72°	8241.8	8188.5	8626.0	9761.0	10844.2	10716.7	8753.5	4620.6	1845.3	857.3	389.1
72.5°	7809.1	7859.1	8461.3	9714.1	10719.9	10824.9	8504.9	4262.1	1517.6	682.9	293.8
75°	4788.5	4874.0	6315.7	8248.2	9341.2	9223.3	6578.9	2031.0	582.8	290.6	104.9
77.5°	1748.4	1819.5	3064.2	5190.5	6643.5	6569.2	3806.9	721.7	316.4	216.3	53.3
80°	455.3	492.4	1041.3	2394.2	3907.0	3911.8	1593.5	289.0	214.7	177.6	32.3
82.5°	90.4	100.1	319.7	931.5	1825.9	1801.7	503.7	155.0	161.4	145.3	22.6
85°	11.3	14.5	67.8	316.4	590.9	529.5	124.3	77.5	119.5	113.0	14.5
87.5°	1.6	1.6	16.1	72.7	124.3	121.1	25.8	24.2	53.3	69.4	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°	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8
2.5°	1651.6	1658.0	1680.6	1700.0	1722.6	1729.1	1719.4	1735.5	1712.9	1725.8	1729.1
5°	1654.8	1691.9	1733.9	1761.4	1754.9	1738.8	1725.8	1682.3	1651.6	1640.3	1664.5
7.5°	1677.4	1719.4	1764.6	1764.6	1729.1	1645.1	1564.4	1486.9	1422.3	1390.0	1417.5
10°	1706.5	1750.1	1796.9	1735.5	1603.1	1449.8	1335.1	1189.8	1091.4	1039.7	1044.5
12.5°	1745.2	1806.6	1822.7	1680.6	1461.1	1233.4	1025.2	823.4	729.7	655.5	657.1
15°	1795.3	1855.0	1806.6	1561.2	1280.3	944.5	694.2	502.1	427.8	389.1	389.1
17.5°	1861.5	1906.7	1801.7	1451.4	1036.5	645.8	426.2	339.0	322.9	316.4	316.4
20°	1939.0	1972.9	1754.9	1280.3	770.1	414.9	313.2	303.5	305.1	301.9	301.9
22.5°	2026.1	2037.4	1701.6	1081.7	521.5	306.7	292.2	293.8	295.4	292.2	293.8
25°	2118.2	2087.5	1624.1	849.2	347.1	279.3	282.5	285.8	287.4	289.0	289.0
27.5°	2221.5	2160.1	1516.0	621.6	271.2	263.2	272.8	282.5	284.1	284.1	282.5
30°	2373.2	2271.5	1411.0	421.4	238.9	245.4	261.5	272.8	280.9	280.9	279.3
32.5°	2565.4	2387.8	1264.1	287.4	221.2	224.4	237.3	259.9	277.7	279.3	274.5
35°	2831.7	2528.2	1110.7	229.3	208.3	209.9	218.0	235.7	266.4	276.1	274.5
37.5°	3112.7	2688.1	920.2	206.6	198.6	197.0	201.8	216.3	243.8	268.0	269.6
40°	3411.3	2856.0	720.0	195.3	190.5	187.3	188.9	195.3	216.3	247.0	253.5
42.5°	3692.2	3007.7	540.8	184.0	182.4	179.2	179.2	180.8	192.1	213.1	216.3
45°	3995.8	3132.0	411.7	176.0	171.1	172.7	166.3	163.1	171.1	172.7	171.1
47.5°	4279.9	3256.3	329.3	166.3	161.4	161.4	153.4	146.9	146.9	132.4	130.8
50°	4546.3	3324.1	263.2	153.4	151.8	150.1	138.8	127.5	117.9	100.1	96.9
52.5°	4767.5	3320.9	203.4	137.2	142.1	137.2	119.5	103.3	88.8	72.7	69.4
55°	4833.7	3165.9	153.4	113.0	121.1	114.6	95.3	80.7	64.6	51.7	50.0
57.5°	4777.2	2930.2	116.2	87.2	93.6	87.2	72.7	59.7	45.2	35.5	32.3
60°	4588.3	2654.2	90.4	67.8	71.0	66.2	54.9	45.2	32.3	22.6	19.4
62.5°	4229.9	2308.7	69.4	53.3	51.7	51.7	42.0	33.9	22.6	12.9	11.3
65°	3471.1	1800.1	53.3	37.1	37.1	37.1	32.3	24.2	14.5	6.5	3.2
67.5°	2179.5	1047.8	43.6	29.1	27.4	27.4	22.6	16.1	8.1	1.6	0.0
70°	820.1	384.2	33.9	22.6	21.0	21.0	16.1	9.7	4.8	0.0	0.0
72°	282.5	146.9	27.4	16.1	16.1	14.5	11.3	8.1	3.2	0.0	0.0
72.5°	232.5	117.9	25.8	16.1	14.5	14.5	11.3	8.1	3.2	0.0	0.0
75°	84.0	48.4	17.8	11.3	9.7	9.7	8.1	4.8	1.6	0.0	0.0
77.5°	42.0	30.7	14.5	9.7	8.1	4.8	4.8	3.2	1.6	0.0	0.0
80°	25.8	19.4	8.1	6.5	4.8	3.2	1.6	1.6	0.0	0.0	0.0
82.5°	17.8	11.3	4.8	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0
85°	11.3	4.8	3.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	3.2	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)