

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: P483227

Luminaire Tested: **IFLD-S-SA3B-740-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483227
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-740-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

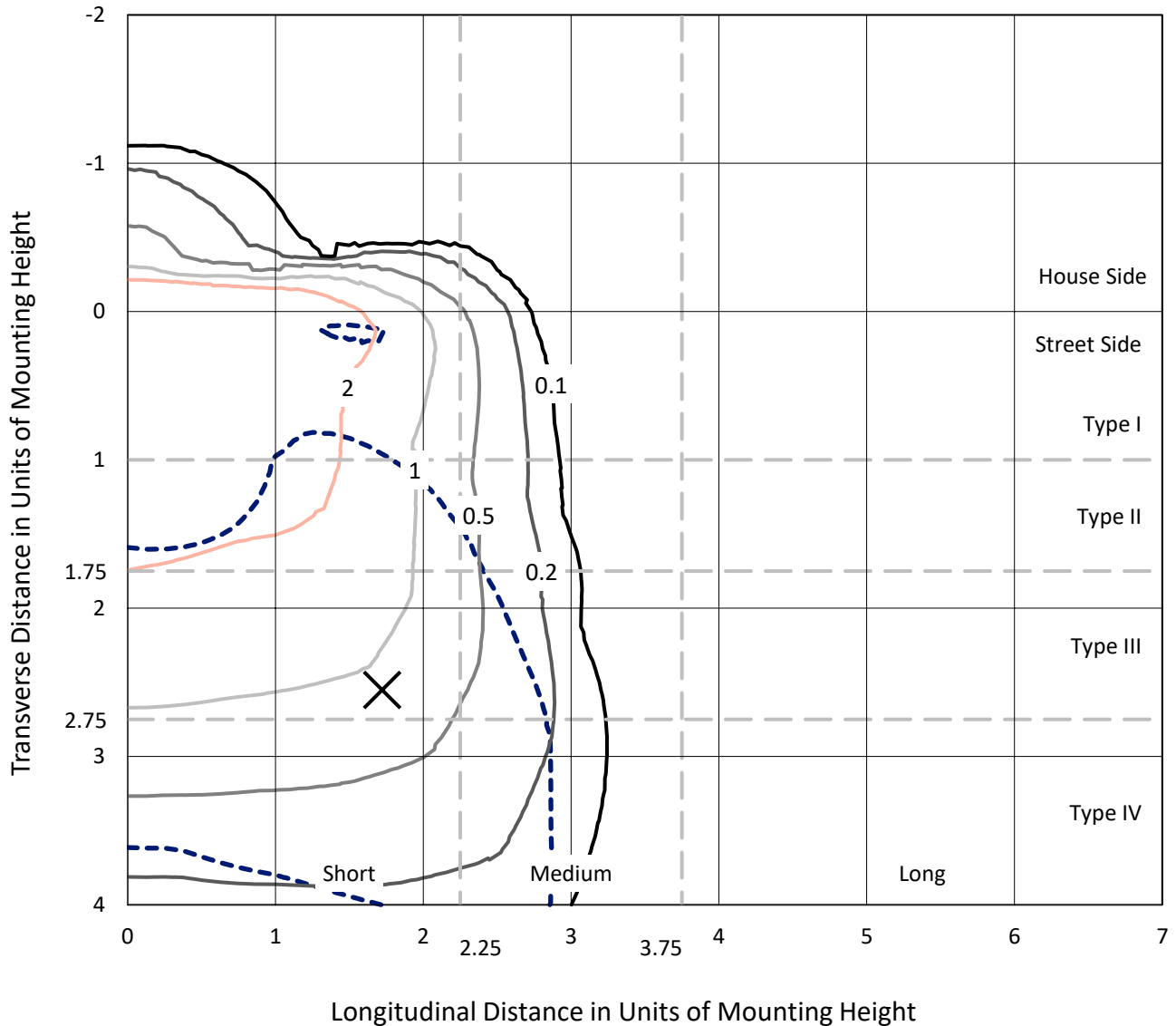
Lumens per Lamp: N/A
Luminaire Lumens: 12304 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 122.4
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

REPORT NUMBER: P483227
 CATALOG NUMBER: IFLD-S-SA3B-740-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

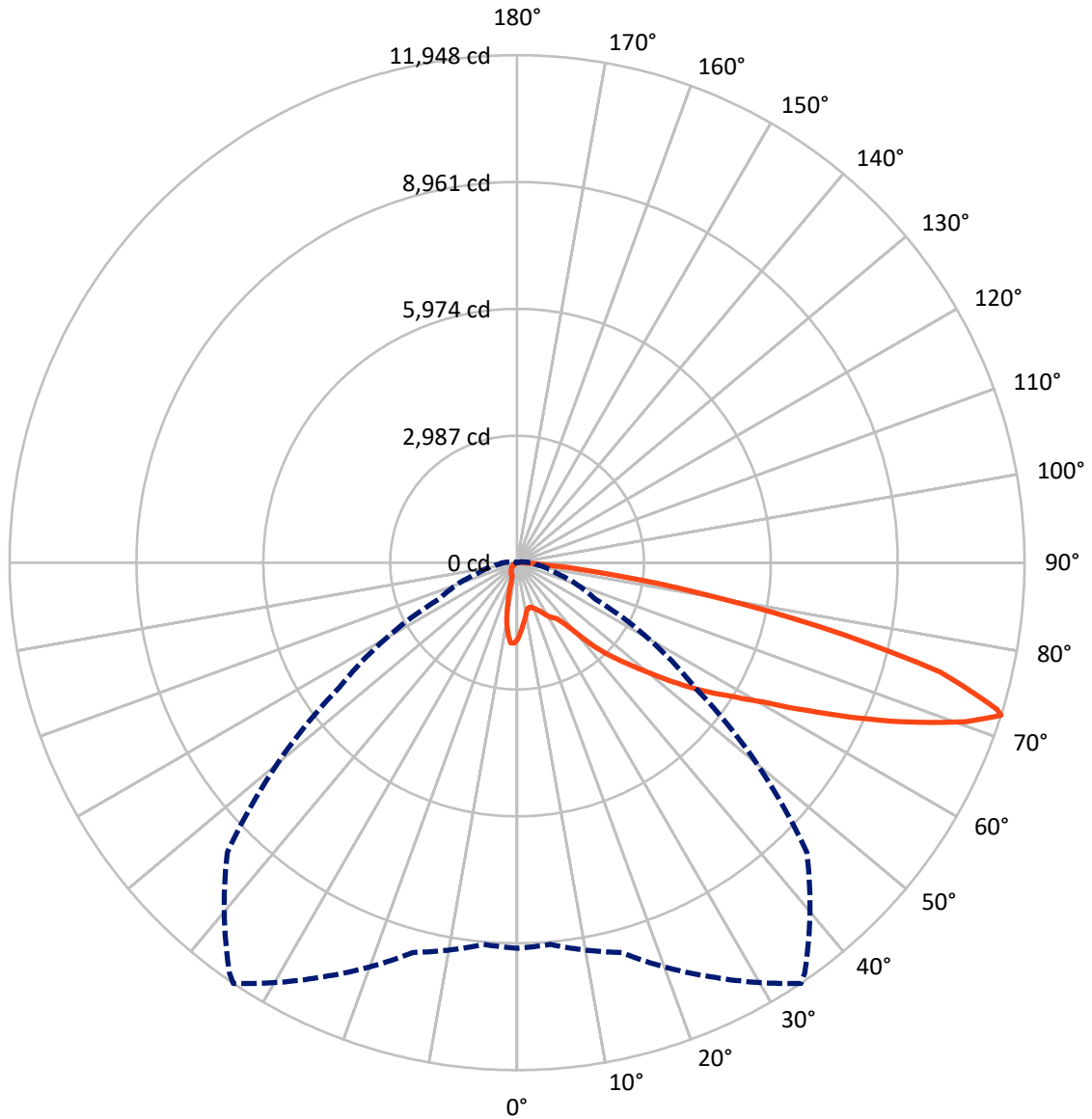
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P483227
CATALOG NUMBER: IFLD-S-SA3B-740-U-T4FT-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483227
 CATALOG NUMBER: IFLD-S-SA3B-740-U-T4FT-HSS

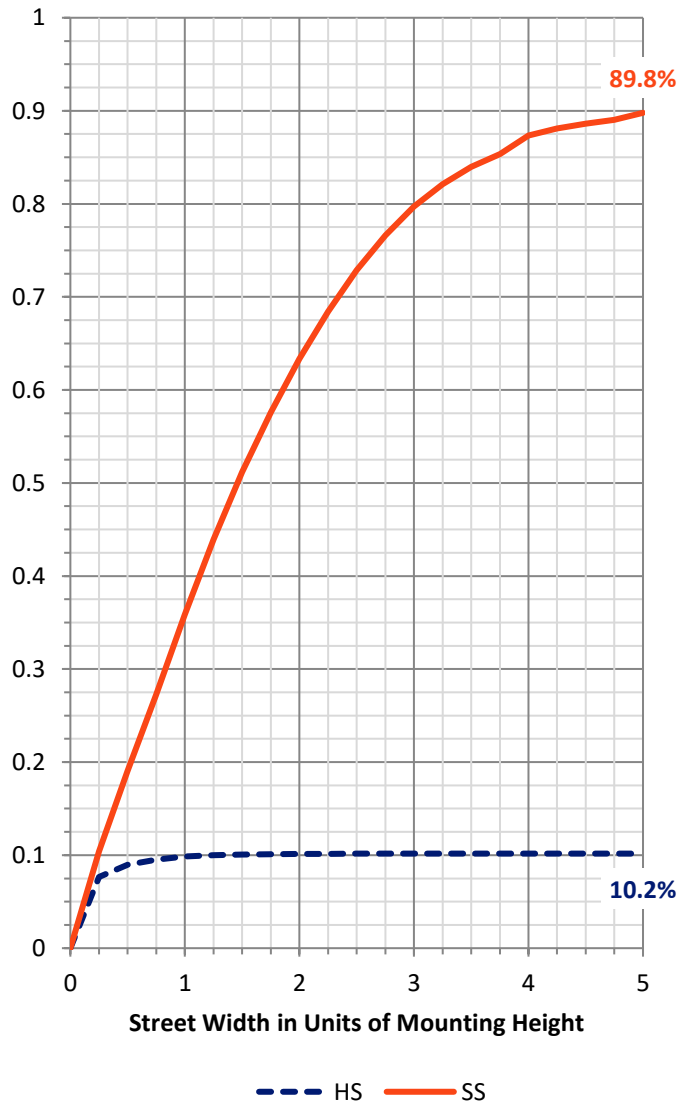
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1259.6	0.0	1259.6
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	11044.3	0.0	11044.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	12304.0	0.0	12304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.3	1.3
10°-20°	353.8	2.9
20°-30°	534.0	4.3
30°-40°	866.6	7.0
40°-50°	1629.5	13.2
50°-60°	2664.3	21.7
60°-70°	3541.8	28.8
70°-80°	2371.9	19.3
80°-90°	185.9	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°	12304.0	100.0
0°-180°	12304.0	100.0

Coefficient of Utilization



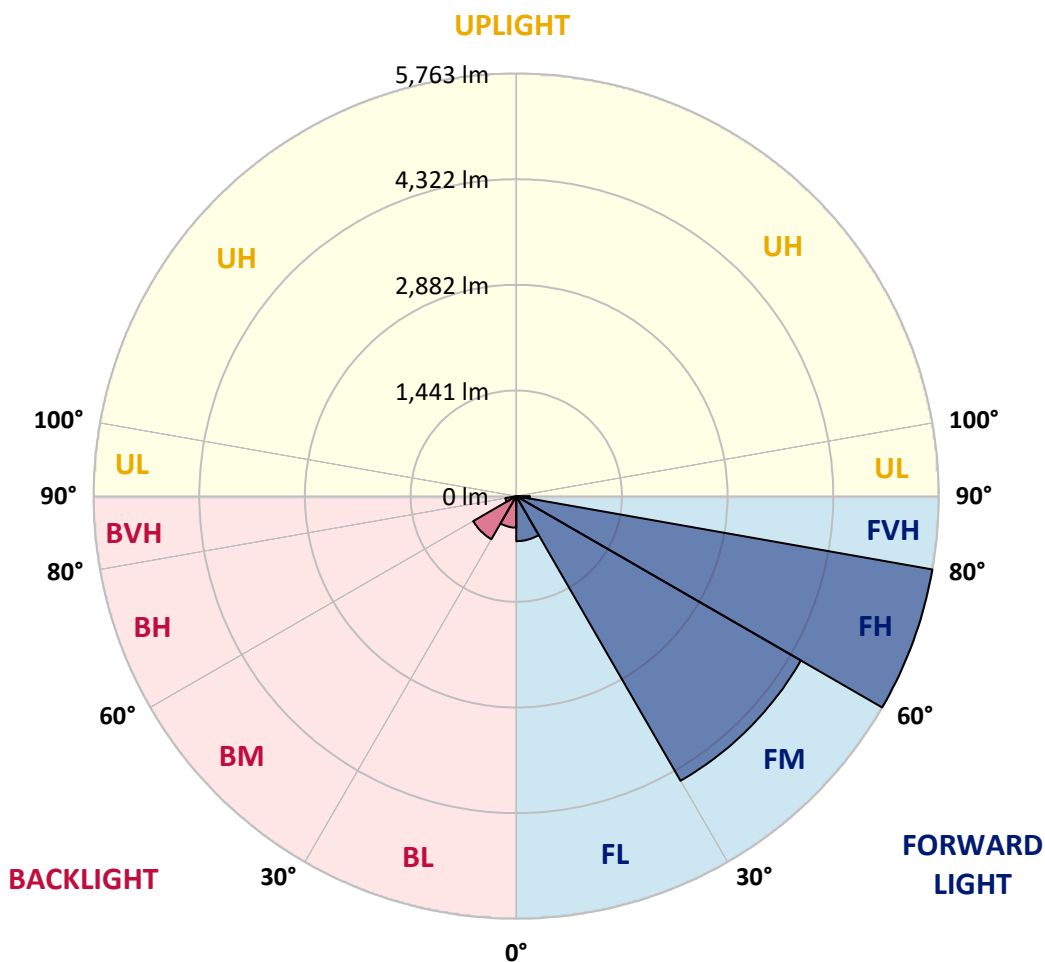
REPORT NUMBER: P483227
 CATALOG NUMBER: IFLD-S-SA3B-740-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.2	5.0			
FM (30°-60°)	4482.3	36.4			
FH (60°-80°)	5763.1	46.8			G3/7500
FVH (80°-90°)	184.7	1.5			G2/225
BL (0°-30°)	429.8	3.5	B1/500		
BM (30°-60°)	678.0	5.5	B1/1000		
BH (60°-80°)	150.6	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





REPORT NUMBER: P483227

CATALOG NUMBER: IFLD-S-SA3B-740-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1800.1	1800.1	1800.1	1800.1	1800.1	1800.1	1800.1	1800.1	1800.1	1800.1	1800.1
2.5°	1592.0	1588.4	1599.1	1616.9	1634.7	1627.5	1661.3	1696.9	1721.8	1755.6	1796.5
5°	1391.0	1399.9	1410.5	1446.1	1469.2	1474.6	1536.8	1583.1	1659.6	1737.8	1810.8
7.5°	1207.8	1218.4	1239.8	1278.9	1326.9	1339.4	1401.6	1494.1	1593.7	1696.9	1816.1
10°	1074.4	1085.0	1108.2	1133.1	1197.1	1197.1	1282.5	1410.5	1540.4	1661.3	1817.9
12.5°	1045.9	1051.2	1049.5	1069.0	1109.9	1118.8	1202.4	1342.9	1494.1	1648.9	1846.3
15°	1079.7	1083.2	1065.5	1054.8	1090.4	1099.3	1177.5	1302.0	1463.9	1656.0	1892.6
17.5°	1147.3	1134.8	1099.3	1083.2	1113.5	1118.8	1191.8	1300.3	1460.3	1675.6	1945.9
20°	1186.4	1200.6	1138.4	1108.2	1150.8	1158.0	1236.2	1328.7	1478.1	1709.4	2020.6
22.5°	1255.8	1262.9	1179.3	1159.7	1200.6	1200.6	1289.6	1385.6	1520.8	1764.5	2109.6
25°	1353.6	1344.7	1246.9	1227.3	1266.5	1282.5	1371.4	1476.3	1586.6	1816.1	2191.4
27.5°	1430.1	1435.4	1355.4	1303.8	1369.6	1380.3	1476.3	1574.2	1636.4	1858.8	2291.0
30°	1543.9	1533.3	1447.9	1389.2	1471.0	1472.8	1565.3	1666.7	1732.5	1935.3	2440.4
32.5°	1679.1	1657.8	1560.0	1476.3	1542.2	1558.2	1652.4	1800.1	1881.9	2079.3	2671.7
35°	1965.5	1913.9	1753.8	1624.0	1629.3	1636.4	1782.3	1994.0	2088.2	2262.6	2981.2
37.5°	2383.5	2362.2	2180.7	1933.5	1839.2	1817.9	1981.5	2250.1	2367.5	2504.5	3383.2
40°	2797.9	2767.7	2598.7	2412.0	2241.2	2198.5	2280.3	2589.8	2696.6	2840.6	3795.8
42.5°	3258.6	3205.3	3006.1	2854.9	2748.1	2701.9	2669.9	3016.7	3137.7	3235.5	4199.6
45°	3724.7	3637.5	3349.4	3233.7	3176.8	3151.9	3148.4	3553.9	3626.8	3646.4	4647.8
47.5°	4133.8	4039.5	3778.0	3648.2	3605.5	3598.4	3797.6	4172.9	4116.0	4064.4	5147.7
50°	4448.6	4388.1	4199.6	4153.3	4121.3	4108.9	4574.9	4809.7	4546.4	4455.7	5587.0
52.5°	4936.0	4800.8	4587.4	4603.4	4715.4	4717.2	5362.9	5414.5	4904.0	4724.3	6001.4
55°	5325.5	5236.6	5062.3	5039.2	5334.4	5366.4	6069.0	5873.4	5103.2	4980.5	6154.4
57.5°	5784.4	5743.5	5617.2	5620.8	5930.3	5997.9	6696.9	6261.1	5268.6	5145.9	6177.5
60°	6447.9	6330.5	6264.7	6294.9	6659.6	6725.4	7305.3	6540.4	5348.7	5254.4	6120.6
62.5°	7180.8	7043.8	6972.6	7127.4	7659.2	7669.9	7767.7	6787.7	5298.8	5282.8	5754.2
65°	8063.0	7927.8	7870.9	8182.2	8813.6	8774.5	8417.0	6892.6	5140.5	4996.5	4791.9
67.5°	8941.7	8859.9	8742.5	9238.7	10024.9	10024.9	9091.1	6853.5	4726.1	4011.0	3134.1
70°	9357.9	9414.8	9601.6	10380.7	11214.9	11129.5	9756.4	6403.4	3518.3	2154.0	1232.7
72°	9080.4	9021.7	9503.8	10754.2	11947.8	11807.2	9644.3	5090.7	2033.1	944.5	428.7
72.5°	8603.7	8658.9	9322.3	10702.6	11810.8	11926.4	9370.4	4695.9	1672.0	752.4	323.7
75°	5275.7	5370.0	6958.4	9087.6	10291.8	10161.9	7248.3	2237.6	642.1	320.2	115.6
77.5°	1926.4	2004.6	3376.0	5718.6	7319.5	7237.7	4194.3	795.1	348.6	238.4	58.7
80°	501.6	542.5	1147.3	2637.9	4304.5	4309.9	1755.6	318.4	236.6	195.7	35.6
82.5°	99.6	110.3	352.2	1026.3	2011.7	1985.1	555.0	170.8	177.9	160.1	24.9
85°	12.5	16.0	74.7	348.6	651.0	583.4	137.0	85.4	131.6	124.5	16.0
87.5°	1.8	1.8	17.8	80.0	137.0	133.4	28.5	26.7	58.7	76.5	8.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483227

CATALOG NUMBER: IFLD-S-SA3B-740-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1800.1	1800.1	1800.1	1800.1	1800.1	1800.1	1800.1	1800.1	1800.1	1800.1	1800.1
2.5°	1819.6	1826.8	1851.7	1873.0	1897.9	1905.0	1894.4	1912.1	1887.2	1901.5	1905.0
5°	1823.2	1864.1	1910.4	1940.6	1933.5	1915.7	1901.5	1853.4	1819.6	1807.2	1833.9
7.5°	1848.1	1894.4	1944.2	1944.2	1905.0	1812.5	1723.6	1638.2	1567.1	1531.5	1561.7
10°	1880.1	1928.1	1979.7	1912.1	1766.3	1597.3	1471.0	1310.9	1202.4	1145.5	1150.8
12.5°	1922.8	1990.4	2008.2	1851.7	1609.8	1359.0	1129.5	907.2	804.0	722.2	723.9
15°	1978.0	2043.8	1990.4	1720.0	1410.5	1040.6	764.9	553.2	471.4	428.7	428.7
17.5°	2050.9	2100.7	1985.1	1599.1	1141.9	711.5	469.6	373.5	355.7	348.6	348.6
20°	2136.3	2173.6	1933.5	1410.5	848.5	457.1	345.1	334.4	336.2	332.6	332.6
22.5°	2232.3	2244.8	1874.8	1191.8	574.5	338.0	322.0	323.7	325.5	322.0	323.7
25°	2333.7	2299.9	1789.4	935.6	382.4	307.7	311.3	314.8	316.6	318.4	318.4
27.5°	2447.5	2379.9	1670.2	684.8	298.8	289.9	300.6	311.3	313.1	313.1	311.3
30°	2614.7	2502.7	1554.6	464.2	263.3	270.4	288.2	300.6	309.5	309.5	307.7
32.5°	2826.4	2630.7	1392.7	316.6	243.7	247.2	261.5	286.4	305.9	307.7	302.4
35°	3119.9	2785.5	1223.8	252.6	229.5	231.2	240.1	259.7	293.5	304.2	302.4
37.5°	3429.4	2961.6	1013.9	227.7	218.8	217.0	222.3	238.4	268.6	295.3	297.0
40°	3758.5	3146.6	793.3	215.2	209.9	206.3	208.1	215.2	238.4	272.1	279.3
42.5°	4068.0	3313.8	595.9	202.8	201.0	197.4	197.4	199.2	211.7	234.8	238.4
45°	4402.4	3450.7	453.6	193.9	188.5	190.3	183.2	179.7	188.5	190.3	188.5
47.5°	4715.4	3587.7	362.9	183.2	177.9	177.9	169.0	161.9	161.9	145.9	144.1
50°	5008.9	3662.4	289.9	169.0	167.2	165.4	153.0	140.5	129.8	110.3	106.7
52.5°	5252.6	3658.9	224.1	151.2	156.5	151.2	131.6	113.8	97.8	80.0	76.5
55°	5325.5	3488.1	169.0	124.5	133.4	126.3	104.9	88.9	71.1	56.9	55.1
57.5°	5263.3	3228.4	128.1	96.1	103.2	96.1	80.0	65.8	49.8	39.1	35.6
60°	5055.2	2924.2	99.6	74.7	78.3	72.9	60.5	49.8	35.6	24.9	21.3
62.5°	4660.3	2543.6	76.5	58.7	56.9	56.9	46.2	37.4	24.9	14.2	12.5
65°	3824.3	1983.3	58.7	40.9	40.9	40.9	35.6	26.7	16.0	7.1	3.6
67.5°	2401.3	1154.4	48.0	32.0	30.2	30.2	24.9	17.8	8.9	1.8	0.0
70°	903.6	423.3	37.4	24.9	23.1	23.1	17.8	10.7	5.3	0.0	0.0
72°	311.3	161.9	30.2	17.8	17.8	16.0	12.5	8.9	3.6	0.0	0.0
72.5°	256.1	129.8	28.5	17.8	16.0	16.0	12.5	8.9	3.6	0.0	0.0
75°	92.5	53.4	19.6	12.5	10.7	10.7	8.9	5.3	1.8	0.0	0.0
77.5°	46.2	33.8	16.0	10.7	8.9	5.3	5.3	3.6	1.8	0.0	0.0
80°	28.5	21.3	8.9	7.1	5.3	3.6	1.8	1.8	0.0	0.0	0.0
82.5°	19.6	12.5	5.3	5.3	3.6	1.8	0.0	0.0	0.0	0.0	0.0
85°	12.5	5.3	3.6	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	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)