

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: P484313

Luminaire Tested: **IFLD-S-SA2A-730-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484313
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-730-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

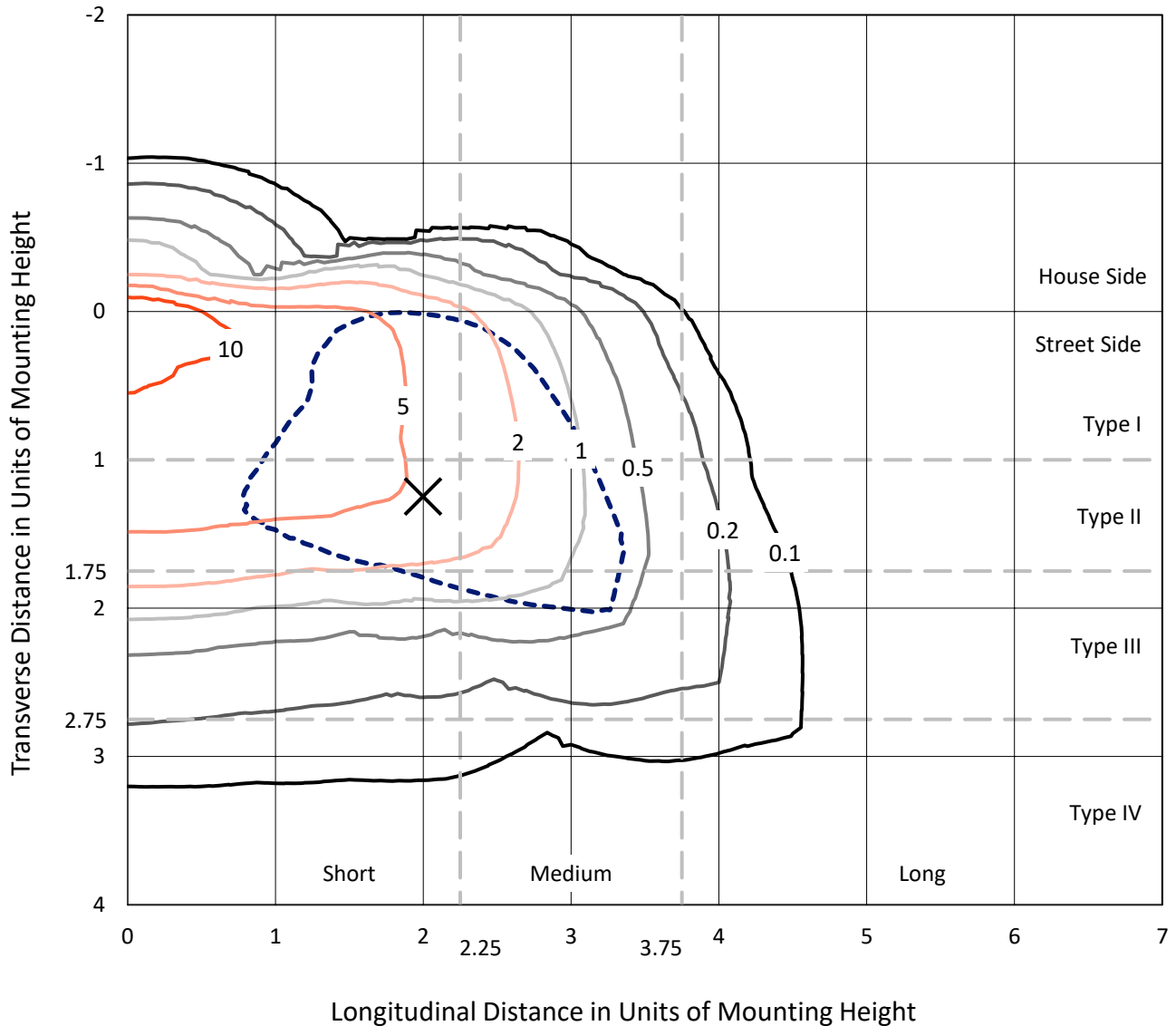
Lumens per Lamp: N/A
Luminaire Lumens: 7030.6 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

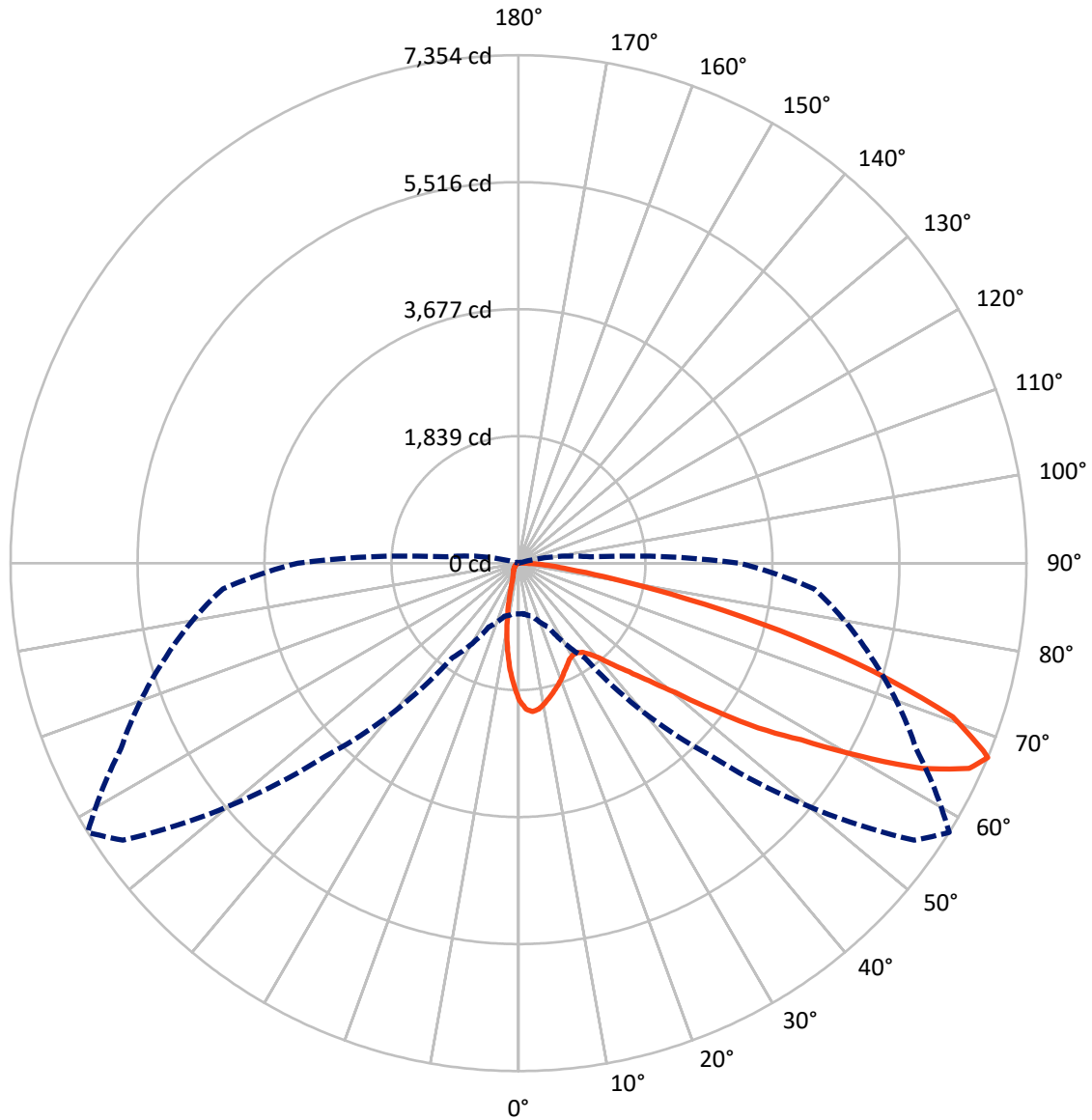
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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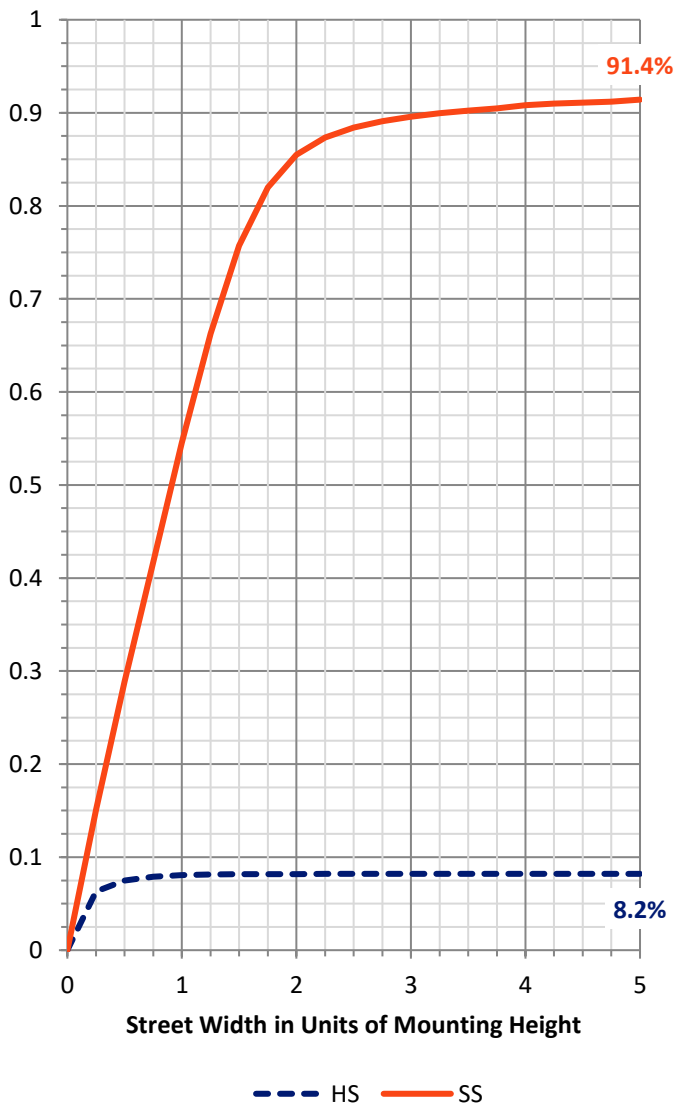
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	581.1	0.0	581.1
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	6449.5	0.0	6449.5
	% Fixture	91.7	0.0	91.7
Total	Lumens	7030.6	0.0	7030.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	2.2
10°-20°	327.8	4.7
20°-30°	434.9	6.2
30°-40°	602.7	8.6
40°-50°	983.4	14.0
50°-60°	1728.5	24.6
60°-70°	1914.5	27.2
70°-80°	793.4	11.3
80°-90°	87.3	1.2
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°	7030.6	100.0
0°-180°	7030.6	100.0



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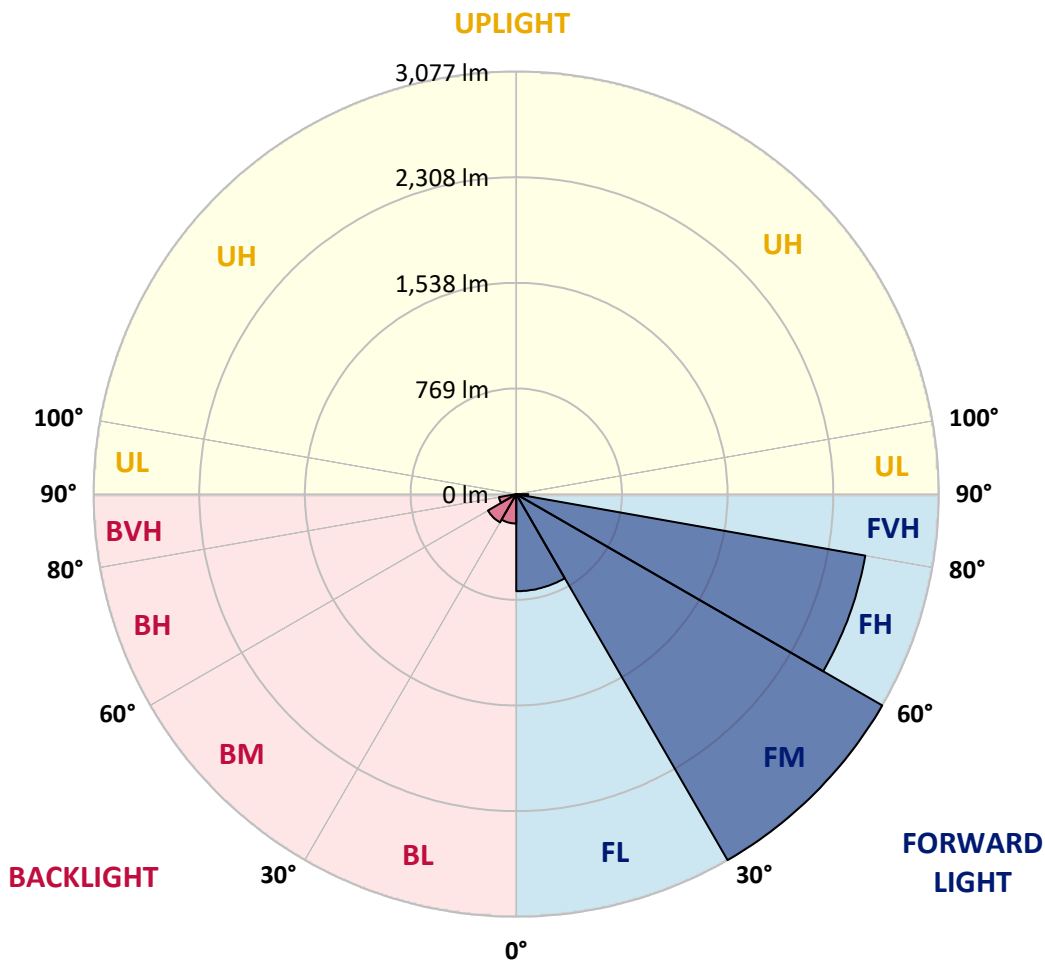
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	706.8	10.1			
FM (30°-60°)	3076.7	43.8			
FH (60°-80°)	2580.1	36.7			G2/5000
FVH (80°-90°)	85.9	1.2			G1/100
BL (0°-30°)	214.0	3.0	B1/500		
BM (30°-60°)	237.9	3.4	B1/1000		
BH (60°-80°)	127.8	1.8	B1/500		G1/500
BVH (80°-90°)	1.4	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1991.9	1991.9	1991.9	1991.9	1991.9	1991.9	1991.9	1991.9	1991.9	1991.9	1991.9
2.5°	2167.3	2174.8	2181.3	2169.2	2179.5	2164.5	2126.3	2117.9	2111.3	2054.4	2021.7
5°	2166.4	2158.0	2164.5	2170.1	2156.1	2167.3	2158.0	2158.9	2133.7	2082.4	1990.9
7.5°	2021.7	2018.0	2021.7	2048.8	2079.6	2103.9	2117.9	2131.9	2115.1	2038.5	1949.9
10°	1826.7	1845.3	1855.6	1904.1	1951.7	1996.5	2040.4	2066.5	2061.9	2031.1	1905.1
12.5°	1690.4	1684.8	1722.1	1753.9	1801.5	1892.0	1968.5	1992.8	2020.8	1977.9	1846.3
15°	1564.4	1549.4	1571.8	1626.9	1708.1	1780.0	1887.3	1923.7	1959.2	1970.4	1814.5
17.5°	1444.0	1451.4	1474.8	1524.2	1600.8	1701.6	1802.4	1854.7	1939.6	1924.7	1766.9
20°	1386.1	1402.0	1410.4	1435.6	1488.8	1589.6	1739.9	1781.9	1872.4	1923.7	1720.3
22.5°	1388.9	1388.9	1369.3	1384.2	1432.8	1511.2	1654.9	1701.6	1845.3	1875.2	1678.2
25°	1418.8	1400.1	1401.0	1383.3	1403.8	1446.8	1578.4	1635.3	1790.3	1879.9	1655.8
27.5°	1441.2	1437.4	1431.8	1427.2	1401.0	1407.6	1528.0	1574.6	1768.8	1874.3	1621.3
30°	1522.4	1505.6	1500.0	1489.7	1455.2	1423.4	1487.8	1546.6	1752.0	1887.3	1601.7
32.5°	1590.5	1593.3	1598.0	1568.1	1538.2	1459.8	1499.0	1545.7	1739.9	1917.2	1621.3
35°	1676.4	1688.5	1690.4	1681.0	1649.3	1571.8	1545.7	1585.8	1760.4	1970.4	1623.2
37.5°	1807.1	1794.0	1829.5	1833.2	1810.8	1708.1	1654.0	1669.8	1821.1	2055.3	1694.1
40°	1892.0	1907.9	1974.1	2015.2	1976.9	1883.6	1810.8	1808.0	1908.8	2188.8	1781.9
42.5°	1986.3	2021.7	2094.5	2183.2	2178.5	2091.7	2018.0	2005.9	2064.7	2382.0	1920.9
45°	2115.1	2146.8	2248.6	2382.0	2454.8	2381.1	2270.0	2245.8	2254.2	2645.2	2158.0
47.5°	2328.8	2320.4	2467.0	2598.6	2718.1	2661.1	2613.5	2542.6	2536.0	2955.1	2485.6
50°	2570.6	2568.7	2699.4	2848.7	2986.9	3097.9	3018.6	2941.1	2943.0	3376.1	2871.1
52.5°	2800.2	2836.6	2977.5	3125.9	3363.0	3482.5	3559.0	3528.2	3379.8	3752.3	3283.7
55°	2921.5	2953.3	3093.3	3349.0	3723.3	4030.4	4237.6	4211.5	3924.9	4176.0	3690.7
57.5°	2806.7	2828.2	3017.7	3352.8	3975.3	4660.5	4859.3	4826.6	4488.7	4499.9	4182.6
60°	2326.0	2359.6	2641.5	3034.5	3877.3	5145.8	5715.2	5665.7	5002.1	4909.7	4499.0
62.5°	1611.0	1633.4	1864.9	2354.0	3412.5	5314.8	6523.5	6550.6	5543.4	5228.9	4593.2
65°	1043.5	1041.7	1174.2	1505.6	2418.4	4803.3	7001.4	7169.4	6066.1	5277.4	4564.3
67°	737.4	734.6	797.1	1021.1	1674.5	3957.6	6993.0	7354.2	6349.9	5291.4	4296.4
67.5°	680.4	677.6	737.4	939.0	1511.2	3680.4	6888.5	7259.0	6449.8	5271.8	4178.8
70°	528.3	520.8	543.2	646.8	880.2	2380.2	5895.3	6668.2	6242.6	4782.7	3336.9
72.5°	381.8	390.2	425.6	531.1	690.7	1280.6	4493.4	5392.2	5214.0	3604.8	2120.7
75°	266.0	273.5	330.4	433.1	633.8	776.6	3038.2	3910.9	3631.8	1990.0	903.5
77.5°	139.1	148.4	210.9	346.3	575.9	601.1	1815.5	2480.0	1924.7	708.4	249.2
80°	64.4	69.1	105.5	245.5	481.6	528.3	1058.5	1379.6	770.1	158.7	85.9
82.5°	28.0	30.8	48.5	140.9	341.6	462.0	655.2	723.4	279.1	51.3	53.2
85°	5.6	6.5	18.7	74.7	165.2	280.0	460.2	429.4	140.0	25.2	42.0
87.5°	0.0	0.0	4.7	21.5	44.8	83.1	195.1	195.1	42.9	13.1	15.9
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°	1991.9	1991.9	1991.9	1991.9	1991.9	1991.9	1991.9	1991.9	1991.9	1991.9	1991.9
2.5°	1992.8	1959.2	1885.5	1817.3	1768.8	1713.7	1640.9	1608.2	1596.1	1579.3	1554.1
5°	1940.5	1899.5	1773.5	1646.5	1507.4	1402.0	1290.0	1224.6	1175.1	1144.3	1134.1
7.5°	1866.8	1782.8	1612.9	1409.4	1229.3	1072.5	902.6	787.8	714.0	684.2	656.2
10°	1808.0	1698.8	1440.2	1187.3	947.4	717.8	526.4	425.6	349.1	320.2	316.4
12.5°	1731.5	1600.8	1278.8	960.5	659.0	427.5	291.2	253.0	231.5	227.7	224.9
15°	1668.0	1512.1	1125.7	743.9	426.6	267.0	226.8	217.5	211.9	210.0	210.9
17.5°	1625.0	1416.9	968.9	541.4	281.0	218.4	209.1	203.5	200.7	199.7	196.9
20°	1540.1	1336.6	813.9	379.0	219.3	201.6	194.1	189.5	186.7	185.7	184.8
22.5°	1491.6	1234.9	659.0	264.2	195.1	182.9	177.3	173.6	168.9	166.1	165.2
25°	1443.0	1160.2	520.8	205.3	177.3	168.9	160.5	155.9	148.4	144.7	143.7
27.5°	1386.1	1086.5	401.4	178.3	159.6	151.2	142.8	135.3	126.0	122.3	120.4
30°	1353.4	1014.6	302.4	159.6	146.5	135.3	125.1	115.7	105.5	98.9	97.1
32.5°	1336.6	949.3	226.8	145.6	132.5	120.4	107.3	96.1	86.8	81.2	80.3
35°	1316.1	885.8	178.3	132.5	119.5	106.4	93.3	82.1	72.8	68.1	66.3
37.5°	1337.6	848.5	148.4	122.3	109.2	94.3	80.3	69.1	61.6	56.9	56.0
40°	1396.4	817.7	128.8	112.9	98.9	83.1	70.0	58.8	52.3	48.5	46.7
42.5°	1486.9	817.7	116.7	103.6	89.6	72.8	59.7	51.3	44.8	41.1	40.1
45°	1651.2	842.9	106.4	94.3	78.4	62.5	51.3	42.9	36.4	32.7	31.7
47.5°	1881.7	900.7	98.0	85.9	70.0	55.1	44.8	36.4	29.9	26.1	25.2
50°	2191.6	1032.3	89.6	75.6	62.5	47.6	37.3	28.9	23.3	19.6	18.7
52.5°	2578.0	1219.0	81.2	70.0	53.2	40.1	29.9	23.3	17.7	14.9	14.0
55°	2986.9	1447.7	70.9	62.5	45.7	33.6	24.3	17.7	13.1	11.2	10.3
57.5°	3398.5	1624.1	62.5	54.1	37.3	27.1	19.6	14.0	9.3	7.5	6.5
60°	3616.9	1640.9	54.1	44.8	29.9	21.5	14.9	10.3	6.5	4.7	3.7
62.5°	3650.5	1491.6	46.7	36.4	24.3	16.8	10.3	7.5	3.7	1.9	1.9
65°	3477.8	1243.3	40.1	28.9	18.7	12.1	7.5	4.7	1.9	0.9	0.0
67°	3197.8	1041.7	34.5	24.3	14.9	9.3	5.6	2.8	0.9	0.0	0.0
67.5°	3089.5	985.7	32.7	22.4	14.0	8.4	4.7	2.8	0.9	0.0	0.0
70°	2397.9	703.8	24.3	15.9	10.3	6.5	3.7	1.9	0.0	0.0	0.0
72.5°	1469.2	411.6	18.7	11.2	7.5	4.7	2.8	0.9	0.0	0.0	0.0
75°	616.0	141.9	15.9	8.4	5.6	2.8	1.9	0.9	0.0	0.0	0.0
77.5°	160.5	53.2	11.2	5.6	3.7	2.8	1.9	0.9	0.0	0.0	0.0
80°	65.3	24.3	7.5	3.7	3.7	2.8	1.9	0.9	0.0	0.0	0.0
82.5°	42.9	11.2	4.7	3.7	2.8	1.9	0.9	0.0	0.0	0.0	0.0
85°	32.7	6.5	2.8	2.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	14.0	3.7	2.8	1.9	1.9	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)