

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: P484900

Luminaire Tested: **IFLD-S-SA2C-827-U-SL4-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484900
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-827-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

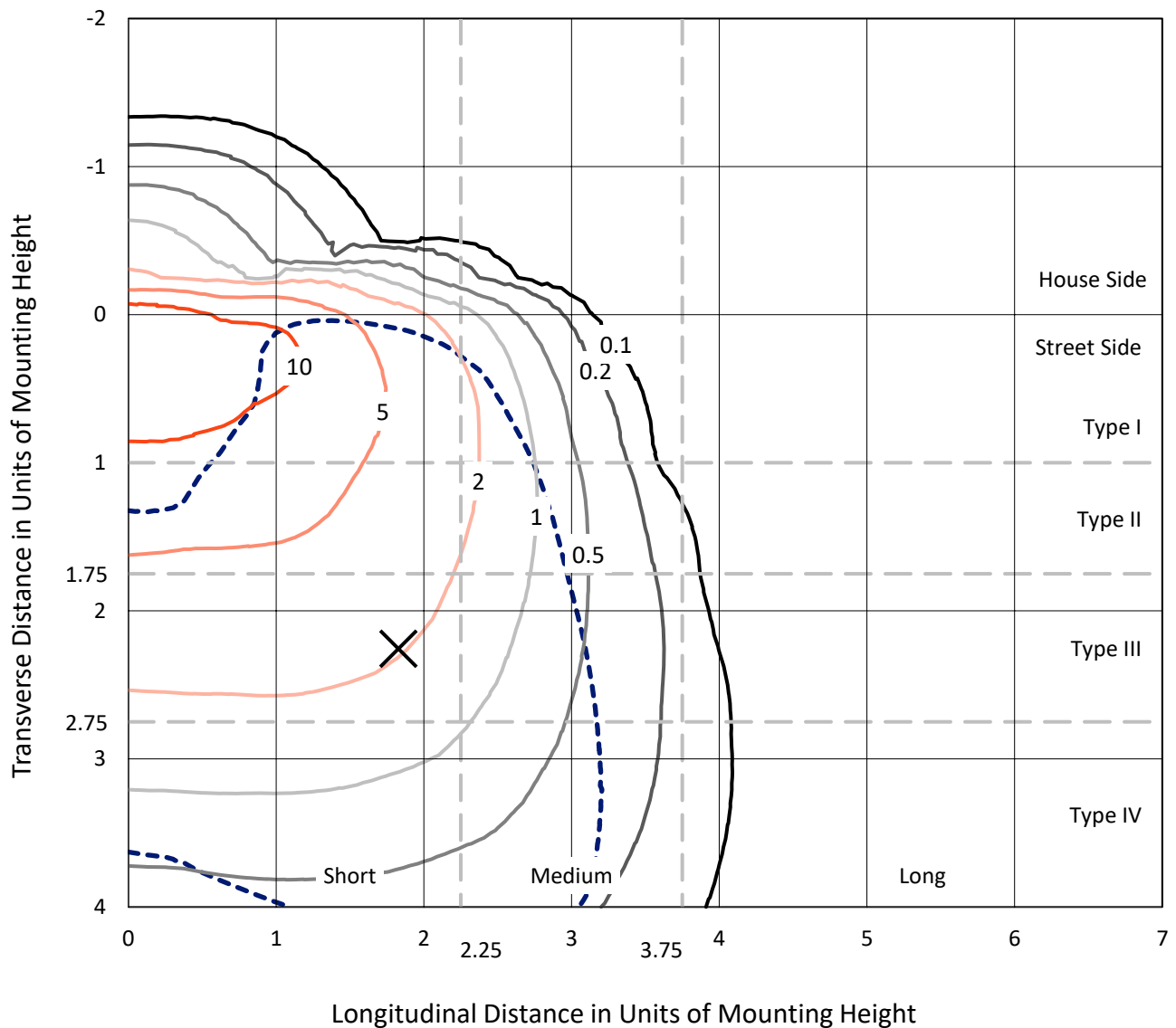
Lumens per Lamp: N/A
Luminaire Lumens: 8631.5 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

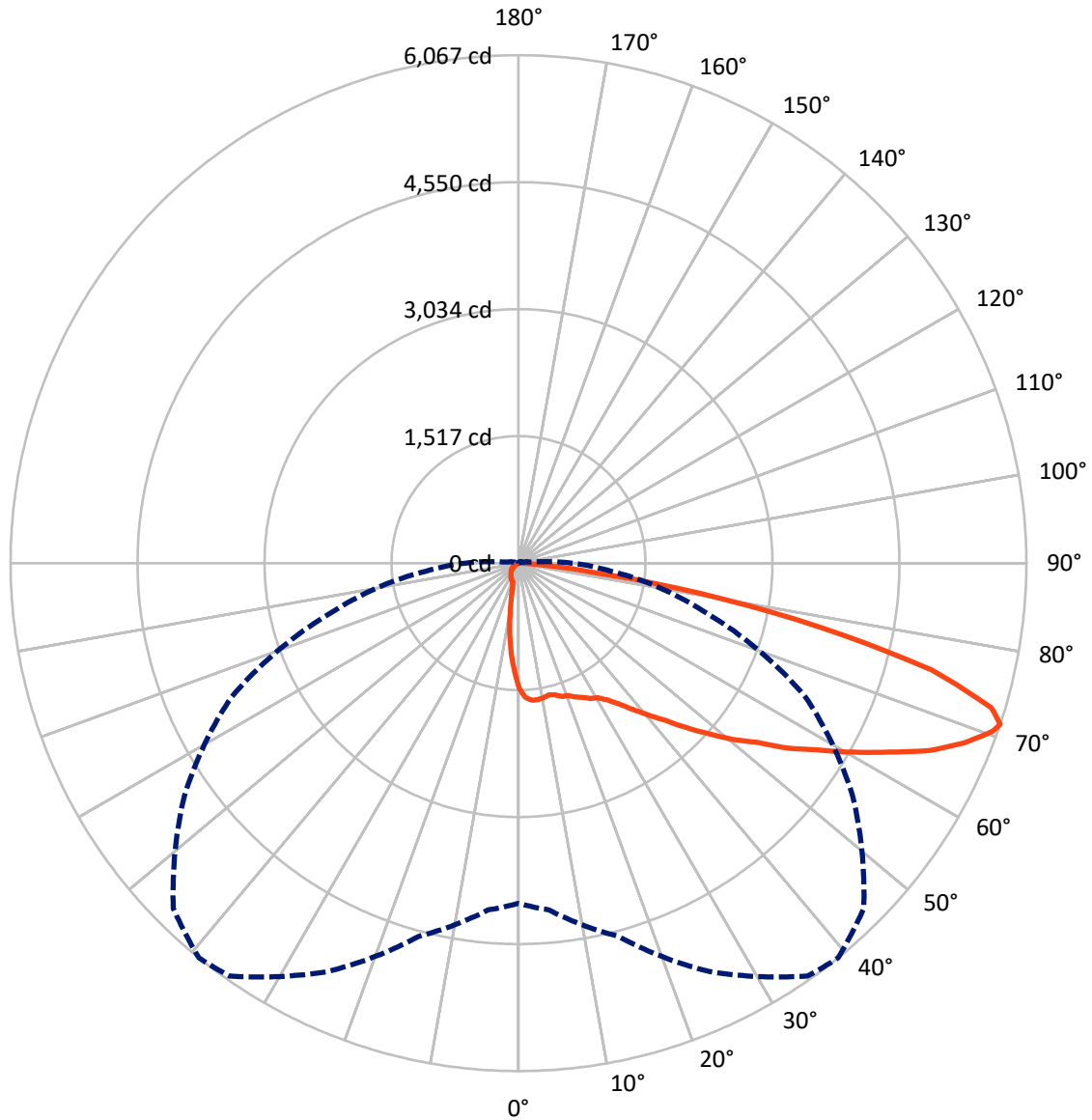
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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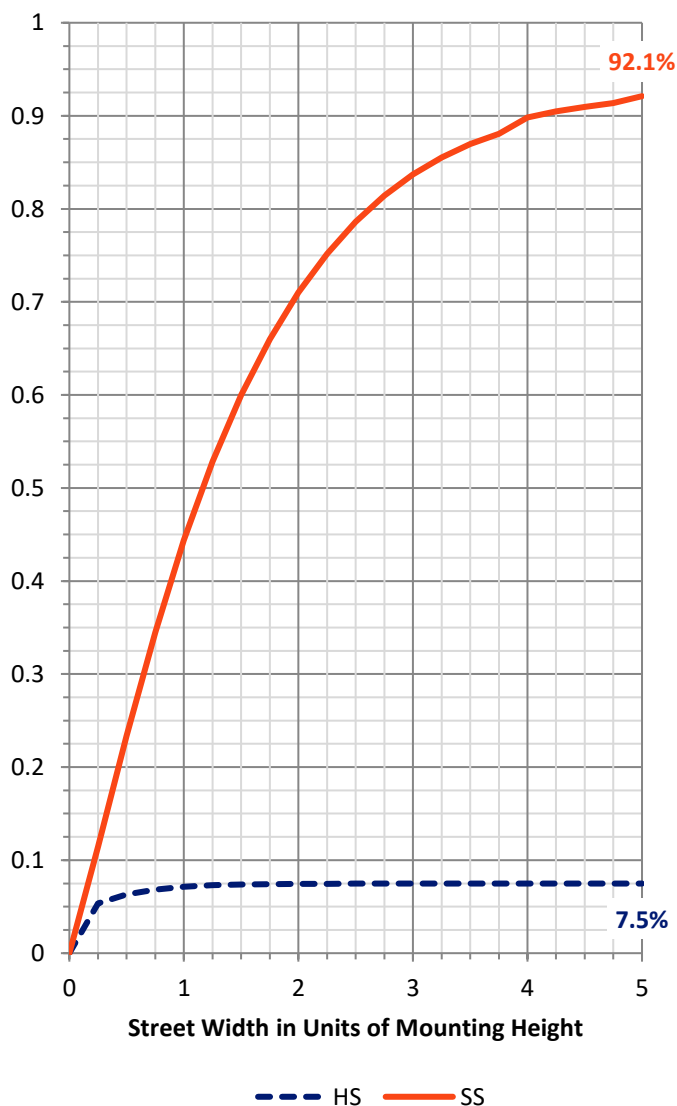
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	649.8	0.0	649.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	7981.7	0.0	7981.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	8631.5	0.0	8631.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	1.5
10°-20°	309.2	3.6
20°-30°	496.3	5.8
30°-40°	759.7	8.8
40°-50°	1219.5	14.1
50°-60°	1791.3	20.8
60°-70°	2256.0	26.1
70°-80°	1505.6	17.4
80°-90°	168.3	1.9
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°	8631.5	100.0
0°-180°	8631.5	100.0

Coefficient of Utilization



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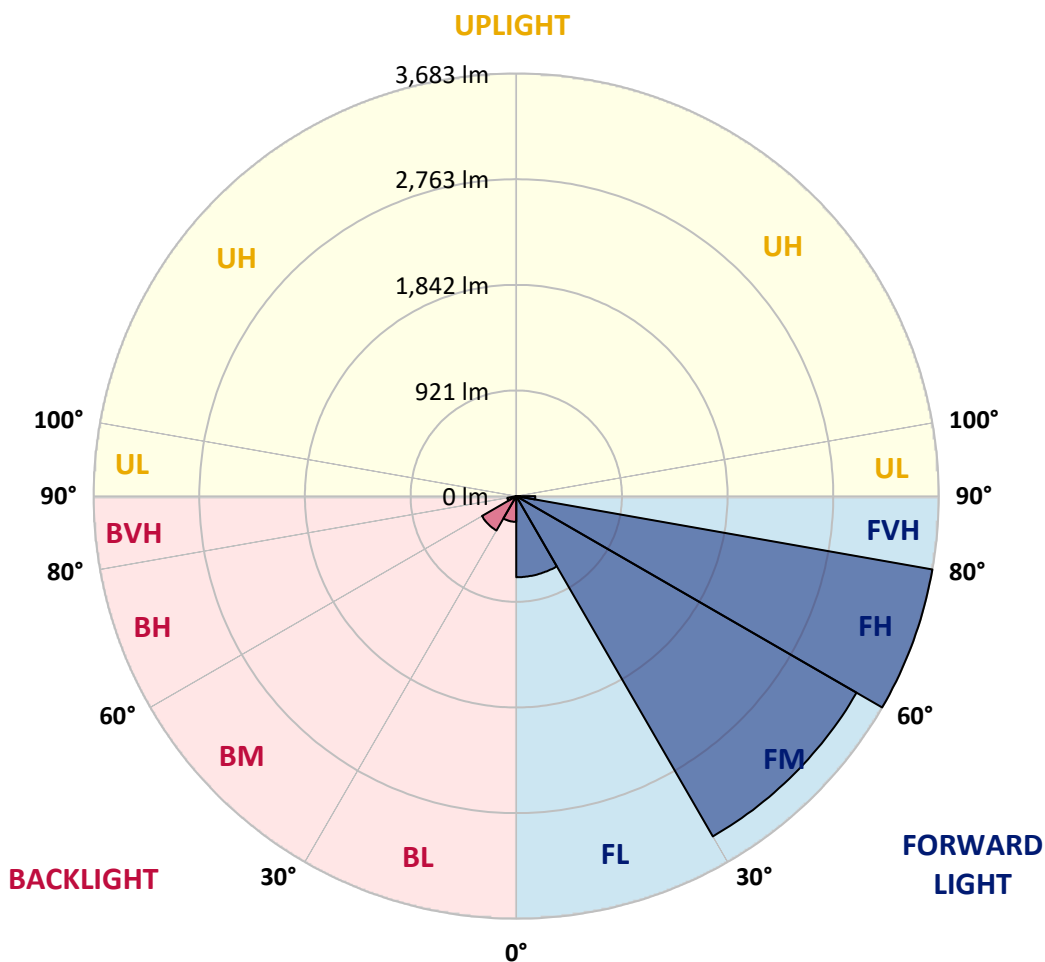
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	706.7	8.2			
FM (30°-60°)	3425.1	39.7			
FH (60°-80°)	3683.4	42.7			G2/5000
FVH (80°-90°)	166.4	1.9			G2/225
BL (0°-30°)	224.3	2.6	B1/500		
BM (30°-60°)	345.4	4.0	B1/1000		
BH (60°-80°)	78.2	0.9	B0/110		G0/110
BVH (80°-90°)	1.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1502.4	1502.4	1502.4	1502.4	1502.4	1502.4	1502.4	1502.4	1502.4	1502.4	1502.4
2.5°	1619.0	1634.8	1619.0	1612.2	1605.4	1606.5	1588.4	1591.8	1570.3	1542.0	1519.3
5°	1669.9	1691.4	1674.5	1666.5	1665.4	1643.9	1634.8	1613.3	1587.3	1543.1	1516.0
7.5°	1665.4	1660.9	1668.8	1662.0	1647.3	1647.3	1637.1	1606.5	1580.5	1530.7	1484.3
10°	1631.4	1645.0	1638.2	1630.3	1633.7	1634.8	1615.6	1594.1	1586.1	1536.3	1460.5
12.5°	1628.0	1605.4	1630.3	1631.4	1616.7	1615.6	1613.3	1607.7	1582.8	1537.5	1466.1
15°	1616.7	1607.7	1632.6	1633.7	1637.1	1633.7	1637.1	1632.6	1607.7	1581.6	1491.0
17.5°	1625.8	1615.6	1650.7	1667.7	1659.7	1675.6	1669.9	1649.5	1628.0	1597.5	1514.8
20°	1628.0	1642.8	1681.2	1688.0	1712.9	1686.9	1685.8	1664.3	1650.7	1617.8	1529.5
22.5°	1669.9	1676.7	1724.3	1739.0	1740.1	1736.7	1708.4	1683.5	1677.9	1637.1	1532.9
25°	1733.3	1757.1	1778.6	1787.7	1791.1	1775.2	1745.8	1714.1	1700.5	1674.5	1568.0
27.5°	1845.4	1830.7	1849.9	1863.5	1825.0	1830.7	1793.3	1766.2	1746.9	1724.3	1608.8
30°	1945.0	1931.5	1932.6	1930.3	1897.5	1866.9	1856.7	1809.2	1785.4	1794.5	1672.2
32.5°	2034.5	2005.0	2030.0	2018.6	1957.5	1948.4	1940.5	1880.5	1885.0	1926.9	1767.3
35°	2117.1	2106.9	2127.3	2106.9	2066.2	2063.9	2056.0	2003.9	2028.8	2088.8	1930.3
37.5°	2193.0	2196.4	2221.3	2211.1	2214.5	2216.8	2212.2	2156.8	2228.1	2362.8	2120.5
40°	2263.2	2258.6	2319.8	2351.5	2358.3	2383.2	2383.2	2369.6	2479.4	2631.1	2384.3
42.5°	2337.9	2349.2	2428.5	2481.7	2546.2	2567.7	2597.2	2604.0	2773.8	2947.0	2653.8
45°	2460.2	2440.9	2541.7	2667.4	2724.0	2799.8	2845.1	2883.6	3088.5	3326.3	2923.2
47.5°	2615.3	2576.8	2665.1	2847.4	2978.7	3041.0	3122.5	3173.4	3373.8	3619.5	3178.0
50°	2787.4	2747.7	2790.8	3042.1	3194.9	3308.2	3412.3	3476.8	3719.1	3947.8	3363.6
52.5°	2982.1	2945.9	2952.7	3244.8	3470.1	3552.7	3689.7	3785.9	4027.1	4145.9	3429.3
55°	3189.3	3180.2	3158.7	3442.9	3711.2	3896.9	3979.5	4095.0	4342.9	4253.5	3500.6
57.5°	3397.6	3369.3	3399.9	3705.5	4098.4	4209.3	4323.7	4392.8	4518.4	4347.5	3473.4
60°	3593.5	3595.7	3638.7	3990.8	4427.9	4585.2	4688.2	4646.4	4698.4	4388.2	3411.2
62.5°	3758.7	3754.2	3862.9	4311.2	4863.7	4970.2	5047.1	4860.3	4782.2	4427.9	3302.5
65°	3907.1	3958.0	4129.0	4692.8	5273.6	5395.8	5349.4	5063.0	4863.7	4311.2	2996.8
67.5°	4019.1	4095.0	4391.6	5051.7	5649.4	5735.5	5671.0	5217.0	4767.5	3853.9	2440.9
70°	4084.8	4161.8	4579.6	5350.6	5949.5	6011.7	5860.0	5098.1	4205.9	2790.8	1522.7
71°	4064.4	4158.4	4615.8	5382.3	6020.8	6067.2	5831.7	4878.4	3782.5	2336.8	1110.6
72.5°	3879.9	3968.2	4465.2	5359.6	5934.7	5906.4	5611.0	4350.9	2977.6	1489.9	574.0
75°	2850.8	2945.9	3832.3	4636.2	5297.3	5102.6	4541.1	3053.4	1553.3	456.3	167.6
77.5°	1419.7	1435.6	2378.7	3365.9	3885.6	3692.0	3043.2	1702.8	580.8	134.7	83.8
80°	654.4	658.9	892.1	1743.5	2349.2	2211.1	1705.0	840.1	262.7	71.3	65.7
82.5°	446.1	452.9	537.8	722.3	1020.1	860.4	690.6	537.8	150.6	43.0	64.5
85°	81.5	74.7	301.2	382.7	394.0	267.2	238.9	465.3	56.6	24.9	56.6
87.5°	0.0	1.1	41.9	156.2	140.4	62.3	81.5	113.2	5.7	7.9	10.2
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°	1502.4	1502.4	1502.4	1502.4	1502.4	1502.4	1502.4	1502.4	1502.4	1502.4	1502.4
2.5°	1500.1	1487.6	1445.8	1399.3	1357.5	1324.6	1282.7	1263.5	1232.9	1215.9	1214.8
5°	1478.6	1444.6	1372.2	1294.1	1206.9	1134.4	1054.0	1008.7	956.7	940.8	937.4
7.5°	1442.4	1393.7	1287.3	1177.4	1043.8	915.9	817.4	712.1	647.6	620.4	610.2
10°	1419.7	1360.8	1215.9	1051.8	865.0	685.0	546.8	434.7	375.9	347.6	340.8
12.5°	1419.7	1356.3	1158.2	931.8	683.8	468.7	338.5	274.0	254.7	247.9	247.9
15°	1416.3	1347.3	1102.7	808.4	506.1	314.7	252.5	238.9	236.6	235.5	234.4
17.5°	1433.3	1331.4	1046.1	675.9	357.8	247.9	232.1	229.8	227.6	227.6	225.3
20°	1445.8	1322.4	978.2	535.5	267.2	229.8	223.0	219.6	218.5	217.4	219.6
22.5°	1435.6	1308.8	894.4	400.8	233.2	218.5	214.0	210.6	208.3	208.3	209.4
25°	1454.8	1296.3	810.6	302.3	218.5	208.3	203.8	201.5	200.4	199.3	197.0
27.5°	1480.9	1302.0	711.0	243.4	206.1	198.1	193.6	191.3	190.2	187.9	190.2
30°	1512.6	1300.8	601.2	212.8	194.7	186.8	182.3	181.1	178.9	177.7	178.9
32.5°	1566.9	1330.3	488.0	197.0	182.3	175.5	171.0	169.8	168.7	167.6	166.4
35°	1683.5	1366.5	381.5	184.5	171.0	163.0	159.6	157.4	156.2	155.1	154.0
37.5°	1827.3	1446.9	291.0	173.2	159.6	151.7	148.3	147.2	142.7	141.5	140.4
40°	2007.3	1532.9	224.2	160.8	149.4	141.5	138.1	134.7	129.1	126.8	124.5
42.5°	2231.5	1616.7	184.5	149.4	138.1	132.5	126.8	121.1	116.6	112.1	109.8
45°	2455.6	1714.1	161.9	139.3	129.1	122.3	117.7	109.8	101.9	95.1	94.0
47.5°	2642.4	1749.2	148.3	127.9	120.0	114.3	107.6	97.4	86.0	79.3	78.1
50°	2781.7	1728.8	134.7	116.6	109.8	104.2	95.1	82.6	71.3	64.5	62.3
52.5°	2808.9	1639.4	122.3	107.6	99.6	92.8	82.6	69.1	56.6	49.8	48.7
55°	2789.6	1491.0	112.1	99.6	90.6	80.4	69.1	55.5	44.2	37.4	36.2
57.5°	2750.0	1315.6	100.8	89.4	79.3	69.1	56.6	45.3	32.8	26.0	26.0
60°	2615.3	1076.7	89.4	78.1	67.9	58.9	46.4	32.8	22.6	17.0	15.9
62.5°	2427.3	827.6	78.1	66.8	58.9	48.7	36.2	23.8	13.6	9.1	9.1
65°	2084.3	579.7	65.7	55.5	48.7	39.6	27.2	14.7	7.9	3.4	3.4
67.5°	1583.9	358.9	54.3	46.4	41.9	31.7	19.2	9.1	3.4	1.1	0.0
70°	909.1	186.8	43.0	37.4	32.8	23.8	13.6	4.5	2.3	0.0	0.0
71°	635.1	138.1	38.5	32.8	29.4	21.5	11.3	3.4	1.1	0.0	0.0
72.5°	318.1	91.7	32.8	27.2	23.8	17.0	9.1	3.4	1.1	0.0	0.0
75°	113.2	58.9	22.6	18.1	17.0	12.5	5.7	2.3	1.1	0.0	0.0
77.5°	78.1	47.6	15.9	11.3	11.3	7.9	3.4	1.1	1.1	0.0	0.0
80°	71.3	26.0	10.2	6.8	5.7	4.5	2.3	1.1	0.0	0.0	0.0
82.5°	71.3	19.2	5.7	4.5	3.4	2.3	1.1	0.0	0.0	0.0	0.0
85°	49.8	10.2	3.4	3.4	2.3	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	3.4	2.3	1.1	1.1	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)