

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: P481234

Luminaire Tested: **IFLD-S-SA2C-735-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481234
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-735-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

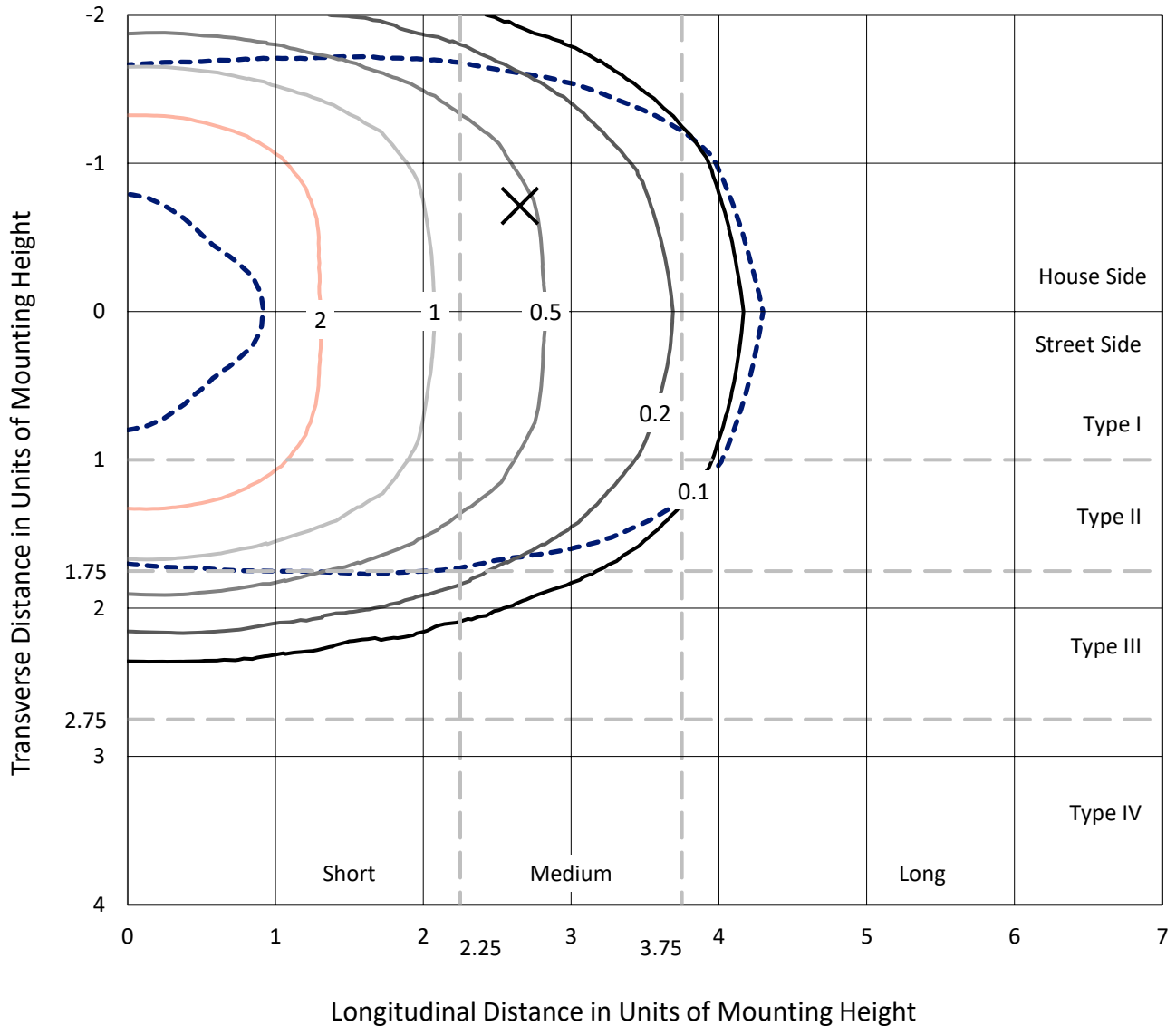
Lumens per Lamp: N/A
Luminaire Lumens: 14439.6 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

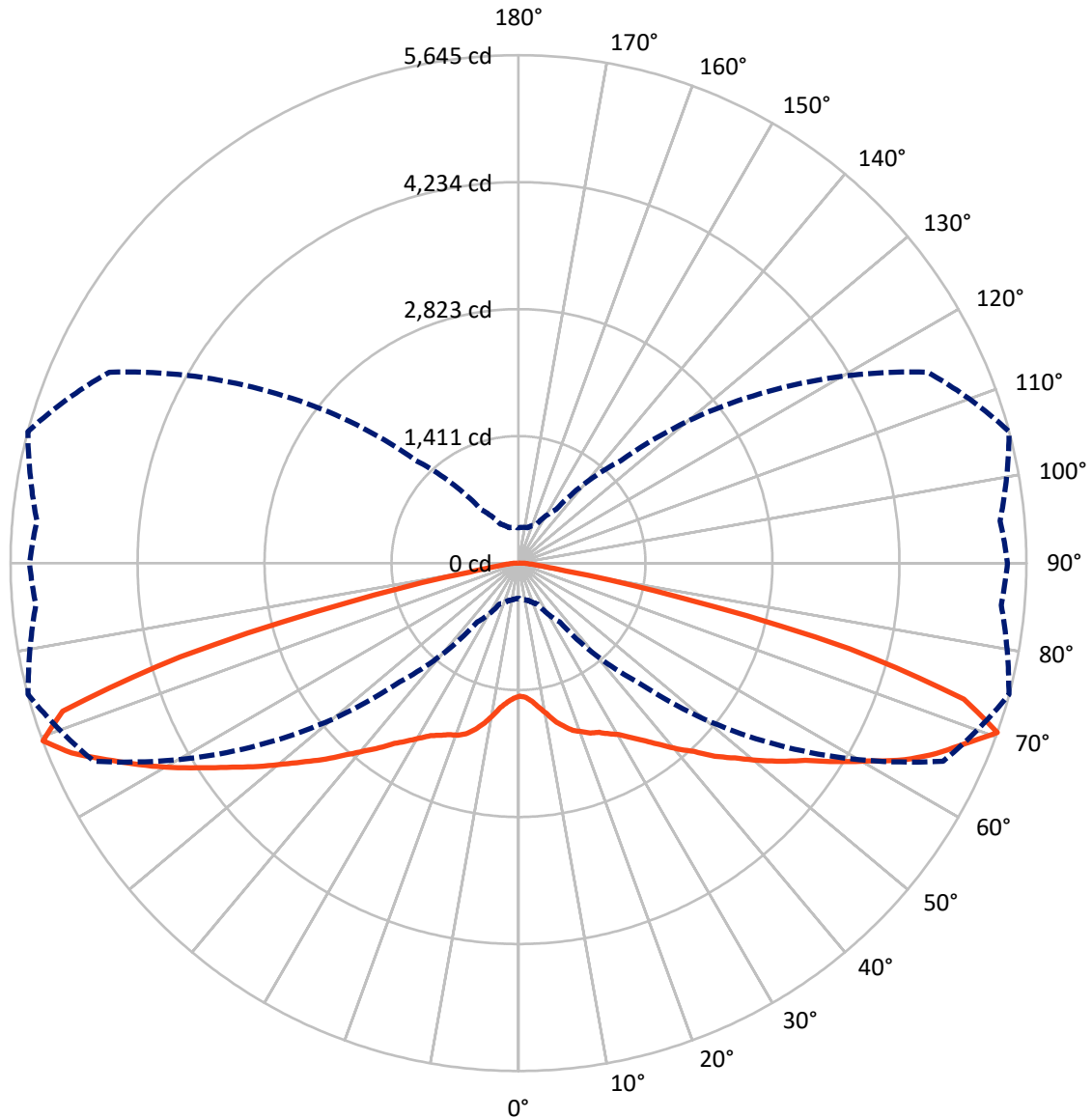
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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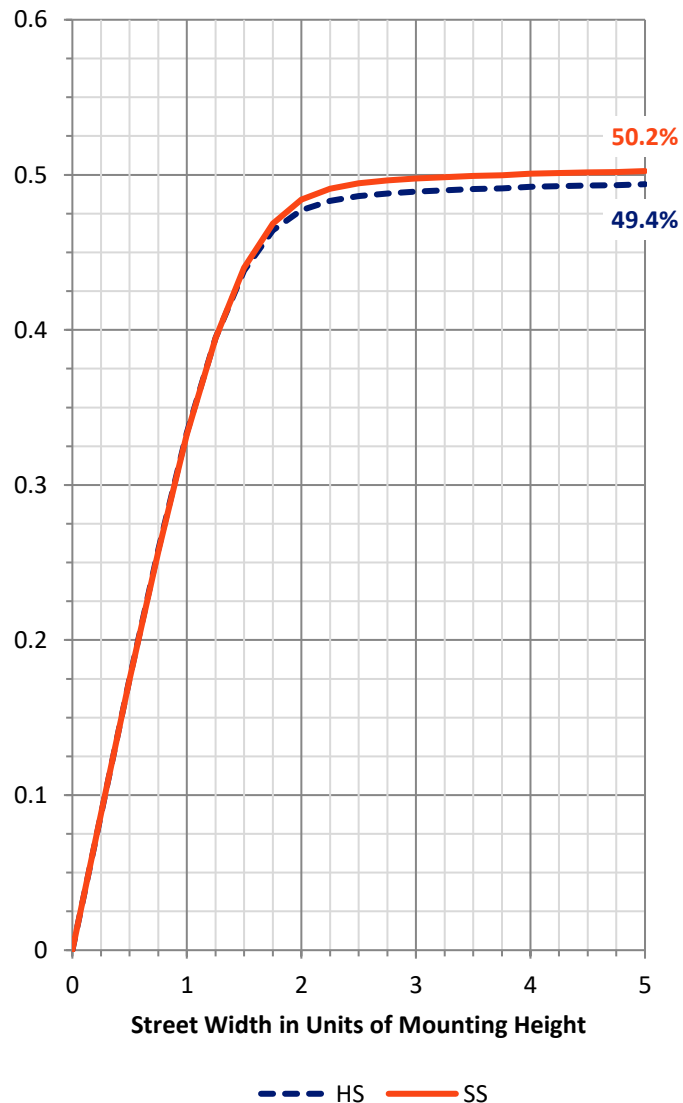
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7168.5	0.0	7168.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	7271.2	0.0	7271.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	14439.6	0.0	14439.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	1.0
10°-20°	501.1	3.5
20°-30°	970.3	6.7
30°-40°	1641.2	11.4
40°-50°	2618.2	18.1
50°-60°	3583.7	24.8
60°-70°	3377.9	23.4
70°-80°	1488.1	10.3
80°-90°	112.0	0.8
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°	14439.6	100.0
0°-180°	14439.6	100.0

Coefficient of Utilization



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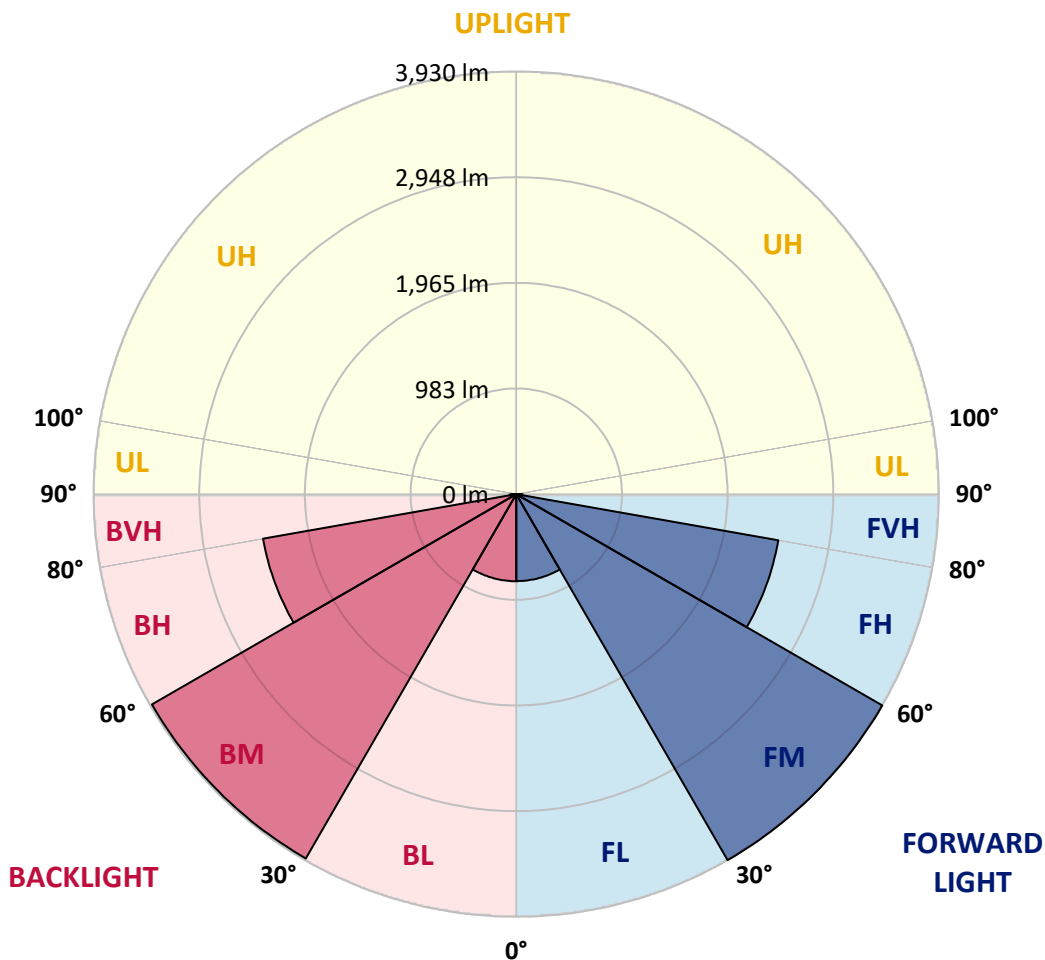
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	808.8	5.6			
FM (30°-60°)	3930.3	27.2			
FH (60°-80°)	2474.8	17.1			G2/5000
FVH (80°-90°)	57.2	0.4			G1/100
BL (0°-30°)	809.7	5.6	B2/1000		
BM (30°-60°)	3912.8	27.1	B3/5000		
BH (60°-80°)	2391.2	16.6	B3/2500		G3/2500
BVH (80°-90°)	54.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6
2.5°	1469.3	1469.3	1467.7	1475.5	1483.3	1486.4	1492.6	1494.2	1503.5	1495.7	1511.3
5°	1464.6	1463.0	1475.5	1494.2	1494.2	1514.4	1526.9	1544.0	1548.6	1558.0	1561.1
7.5°	1497.3	1494.2	1487.9	1508.2	1525.3	1556.4	1573.5	1603.1	1614.0	1626.5	1640.5
10°	1517.5	1517.5	1511.3	1547.1	1562.6	1604.7	1642.0	1671.6	1713.6	1727.6	1729.2
12.5°	1520.6	1525.3	1544.0	1590.7	1634.2	1688.7	1716.7	1772.8	1814.8	1841.2	1850.6
15°	1567.3	1558.0	1578.2	1642.0	1705.8	1754.1	1803.9	1844.4	1905.1	1939.3	1961.1
17.5°	1609.3	1600.0	1637.4	1713.6	1779.0	1853.7	1897.3	1940.9	1984.4	2015.6	2017.1
20°	1676.3	1684.1	1716.7	1799.2	1884.8	1950.2	2000.0	2007.8	2029.6	2074.7	2066.9
22.5°	1758.8	1752.5	1821.0	1911.3	2004.7	2059.1	2087.2	2066.9	2056.0	2104.3	2115.2
25°	1841.2	1859.9	1922.2	2006.2	2118.3	2191.4	2199.2	2143.2	2102.7	2119.8	2115.2
27.5°	1967.3	1970.4	2035.8	2135.4	2249.0	2312.8	2308.2	2228.8	2151.0	2152.5	2155.6
30°	2129.2	2113.6	2185.2	2275.5	2387.6	2445.1	2452.9	2339.3	2235.0	2203.9	2211.7
32.5°	2284.8	2303.5	2365.8	2468.5	2551.0	2583.7	2566.5	2465.4	2330.0	2287.9	2292.6
35°	2484.1	2480.9	2566.5	2653.7	2716.0	2722.2	2708.2	2560.3	2432.7	2378.2	2356.4
37.5°	2697.3	2725.3	2781.3	2852.9	2918.3	2921.4	2845.1	2726.9	2569.7	2479.4	2505.8
40°	2935.4	2966.5	3007.0	3111.3	3159.5	3109.7	3031.9	2871.6	2708.2	2628.8	2641.3
42.5°	3145.5	3159.5	3242.0	3365.0	3388.3	3366.5	3251.4	3056.8	2866.9	2779.8	2786.0
45°	3338.5	3357.2	3464.6	3575.1	3629.6	3592.2	3458.4	3273.2	3052.1	2977.4	2947.9
47.5°	3516.0	3553.3	3657.6	3771.2	3855.3	3858.4	3693.4	3469.3	3235.8	3137.8	3136.2
50°	3635.8	3690.3	3793.0	3922.2	4045.1	4093.4	3928.4	3687.2	3436.6	3332.3	3321.4
52.5°	3701.2	3757.2	3859.9	4060.7	4197.7	4272.4	4194.6	3891.1	3671.6	3562.7	3545.5
55°	3621.8	3659.2	3827.2	4109.0	4320.6	4443.6	4392.2	4172.8	3905.1	3816.4	3831.9
57.5°	3284.1	3361.9	3568.9	3920.6	4317.5	4619.5	4614.8	4438.9	4174.3	4090.3	4093.4
60°	2703.5	2768.9	3024.1	3516.0	4143.2	4691.1	4856.0	4697.3	4476.3	4378.2	4375.1
62.5°	1908.2	1990.7	2286.4	2823.4	3629.6	4591.5	5133.1	5022.6	4772.0	4700.4	4726.9
65°	1067.7	1117.5	1391.4	1877.0	2765.8	4043.6	5182.9	5360.3	5072.4	4963.4	4968.1
67.5°	571.2	589.9	717.5	985.2	1691.8	3117.5	4680.2	5554.9	5397.7	5209.4	5179.8
70°	392.2	398.4	431.1	504.3	800.0	1864.6	3530.0	5207.8	5642.0	5385.2	5435.0
72.5°	331.5	328.4	336.2	344.0	418.7	834.2	2071.6	4007.8	5326.1	5229.6	5210.9
75°	287.9	286.4	289.5	281.7	291.1	367.3	916.7	2498.1	3898.8	4351.8	4421.8
77.5°	238.1	239.7	241.2	233.5	230.4	242.8	368.9	1097.3	1919.1	2118.3	2284.8
80°	180.5	183.7	196.1	188.3	175.9	177.4	217.9	367.3	551.0	499.6	515.2
82.5°	123.0	124.5	151.0	141.6	132.3	119.8	140.1	189.9	214.8	163.4	143.2
85°	87.2	85.6	98.1	90.3	84.0	60.7	84.0	107.4	129.2	80.9	73.2
87.5°	20.2	20.2	40.5	32.7	31.1	24.9	32.7	42.0	56.0	35.8	32.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6
2.5°	1506.6	1492.6	1492.6	1489.5	1477.0	1473.9	1463.0	1466.2	1458.4	1450.6
5°	1559.5	1540.9	1540.9	1514.4	1489.5	1486.4	1473.9	1473.9	1461.5	1464.6
7.5°	1632.7	1615.6	1587.6	1564.2	1530.0	1516.0	1492.6	1489.5	1486.4	1480.2
10°	1719.8	1698.1	1670.0	1621.8	1593.8	1567.3	1544.0	1511.3	1503.5	1505.1
12.5°	1838.1	1803.9	1743.2	1701.2	1665.4	1631.1	1596.9	1548.6	1537.7	1542.4
15°	1922.2	1878.6	1817.9	1802.3	1754.1	1712.1	1656.0	1601.6	1582.9	1578.2
17.5°	1990.7	1954.9	1919.1	1895.7	1856.8	1805.5	1727.6	1665.4	1623.4	1618.7
20°	2046.7	2000.0	1992.2	2006.2	1958.0	1923.7	1828.8	1752.5	1696.5	1673.2
22.5°	2080.9	2051.4	2073.2	2085.6	2082.5	2024.9	1926.9	1838.1	1768.1	1746.3
25°	2118.3	2084.1	2161.9	2203.9	2214.8	2119.8	2043.6	1926.9	1858.4	1844.4
27.5°	2137.0	2149.4	2239.7	2328.4	2320.6	2247.5	2144.8	2040.5	1986.0	1961.1
30°	2191.4	2211.7	2348.6	2448.3	2449.8	2378.2	2300.4	2182.1	2121.4	2110.5
32.5°	2289.5	2314.4	2460.7	2566.5	2585.2	2530.7	2452.9	2379.8	2317.5	2292.6
35°	2364.2	2428.0	2593.0	2689.5	2739.3	2706.6	2663.0	2586.8	2521.4	2499.6
37.5°	2471.6	2560.3	2719.1	2849.8	2905.8	2902.7	2870.0	2787.6	2733.1	2714.4
40°	2625.7	2714.4	2859.2	3031.9	3136.2	3131.5	3112.8	3049.0	2968.1	2958.8
42.5°	2789.1	2862.3	3050.6	3248.3	3397.7	3382.1	3332.3	3257.6	3201.6	3189.1
45°	2947.9	3061.5	3235.8	3489.5	3601.6	3640.5	3581.3	3453.7	3389.9	3382.1
47.5°	3147.1	3237.4	3455.3	3682.5	3849.0	3855.3	3754.1	3635.8	3519.1	3544.0
50°	3324.5	3444.4	3665.4	3914.4	4113.6	4042.0	3912.9	3765.0	3680.9	3648.3
52.5°	3514.4	3660.7	3917.5	4171.2	4281.7	4210.1	4000.0	3835.0	3707.4	3693.4
55°	3791.4	3867.7	4203.9	4398.5	4434.3	4283.3	3973.6	3740.1	3575.1	3534.6
57.5°	4073.2	4161.9	4456.0	4624.1	4586.8	4242.8	3802.3	3441.3	3224.9	3167.3
60°	4358.0	4466.9	4714.4	4868.5	4675.5	3964.2	3318.3	2852.9	2600.8	2549.4
62.5°	4675.5	4817.1	5038.1	5092.6	4412.5	3413.2	2633.5	2059.1	1803.9	1718.3
65°	4957.2	5102.0	5374.3	5045.9	3853.7	2546.3	1702.7	1176.7	988.3	919.8
67.5°	5189.1	5352.5	5486.4	4465.4	2821.8	1491.1	887.2	619.5	549.4	524.5
70°	5372.8	5645.2	5019.5	3282.5	1612.5	726.9	479.4	407.8	398.4	392.2
72.5°	5212.5	5176.7	3747.9	1894.2	706.6	400.0	347.1	336.2	334.6	336.2
75°	4263.0	3802.3	2241.3	823.3	354.9	289.5	287.9	283.3	291.1	291.1
77.5°	2068.5	1808.6	937.0	353.3	233.5	227.2	235.0	235.0	235.0	235.0
80°	479.4	530.7	334.6	214.8	169.7	169.7	186.8	188.3	180.5	177.4
82.5°	163.4	217.9	183.7	135.4	112.1	126.1	141.6	144.7	119.8	121.4
85°	80.9	127.6	99.6	77.8	57.6	77.8	91.8	96.5	82.5	79.4
87.5°	37.4	56.0	37.4	26.5	20.2	28.0	26.5	21.8	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)