

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: P481004

Luminaire Tested: **IFLD-S-SA3B-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481004
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

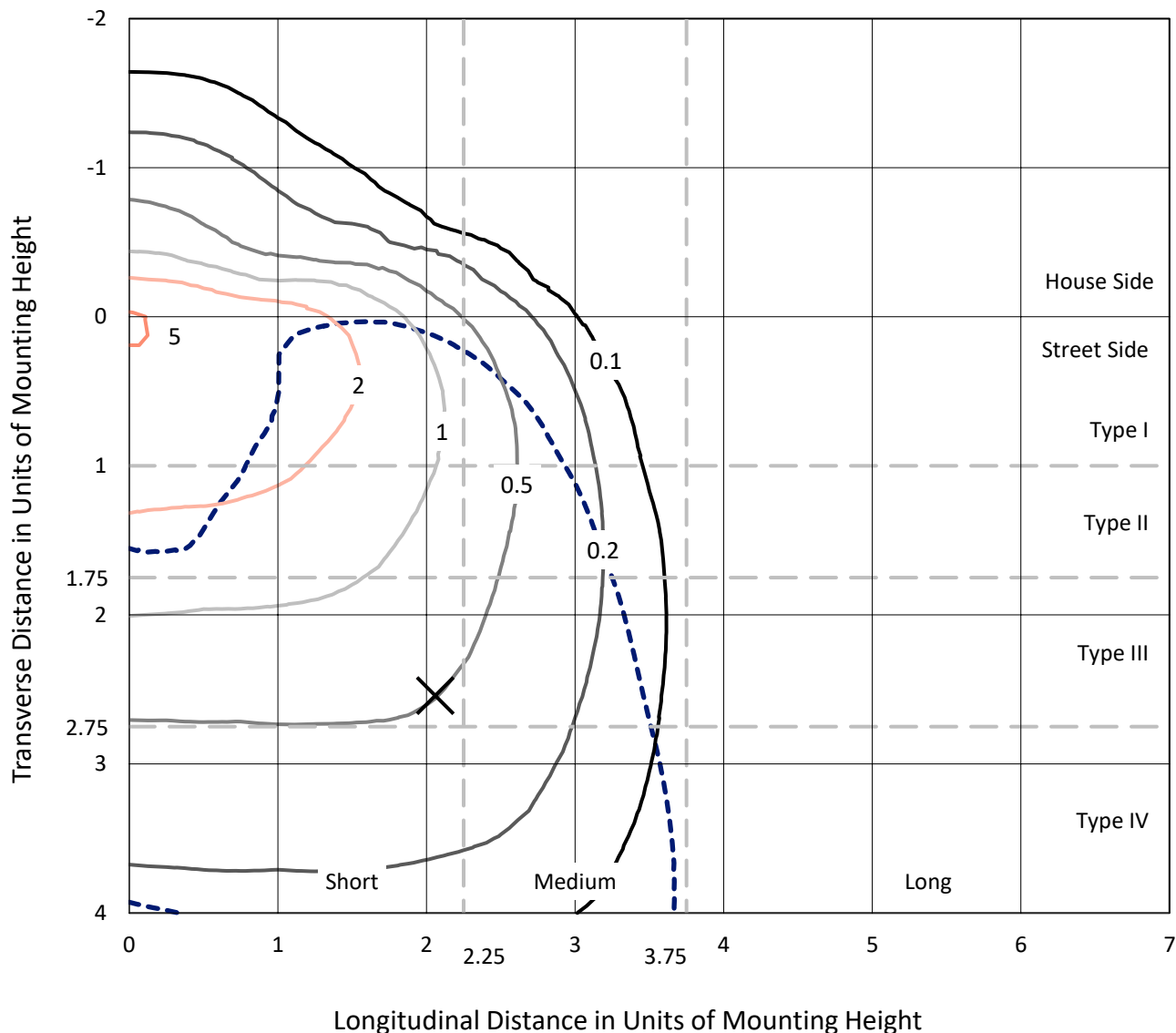
Lumens per Lamp: N/A
Luminaire Lumens: 12099.1 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

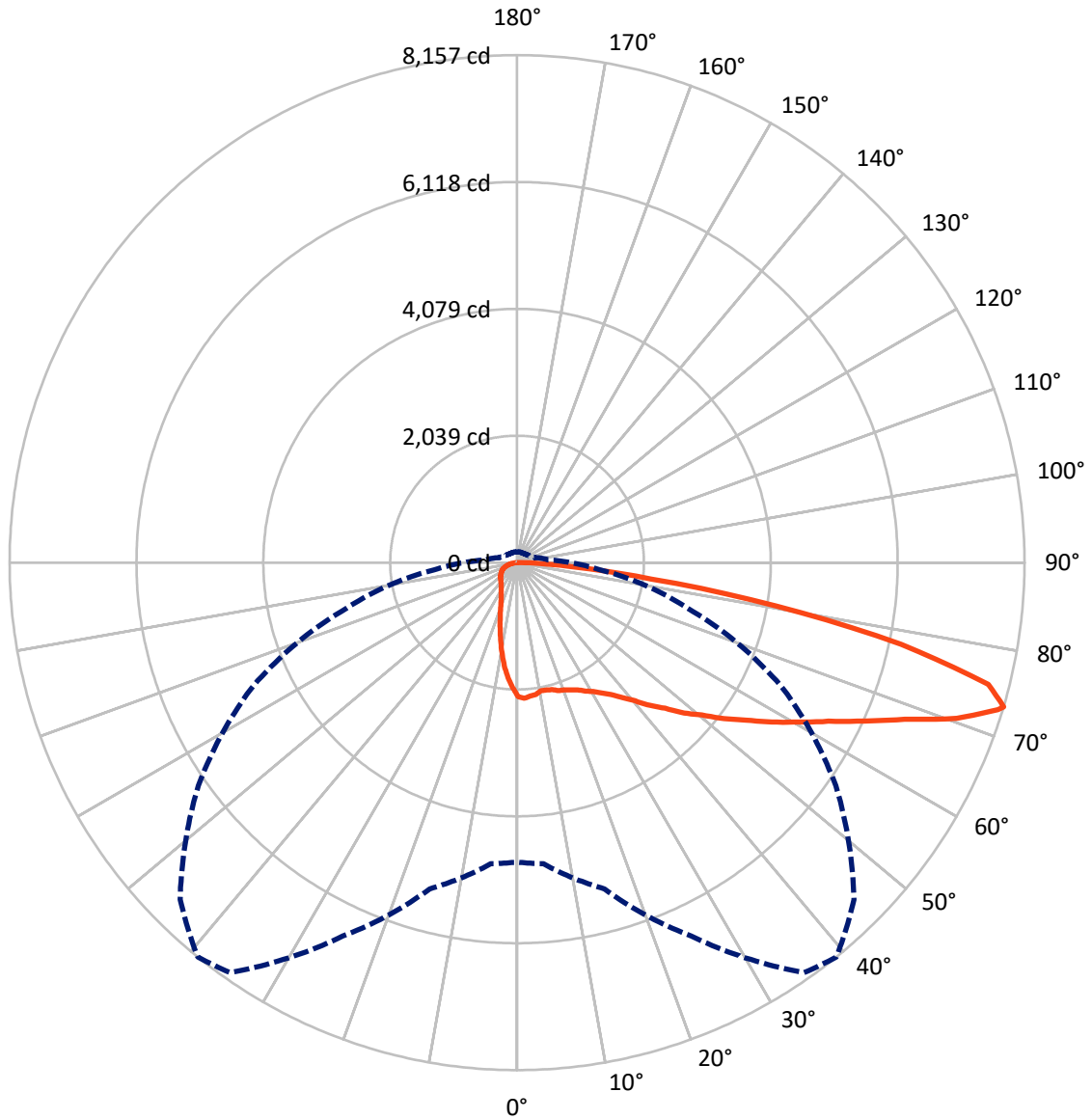
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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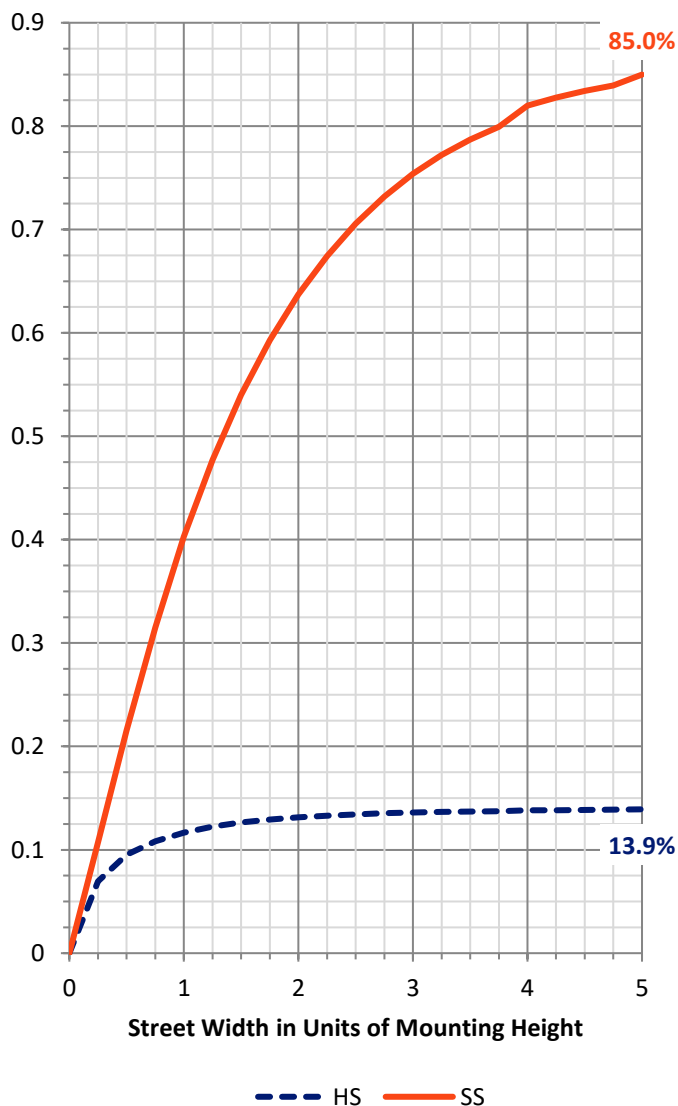
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1700.8	0.0	1700.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	10398.3	0.0	10398.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	12099.1	0.0	12099.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.0	1.5
10°-20°	475.3	3.9
20°-30°	726.3	6.0
30°-40°	1058.9	8.8
40°-50°	1600.2	13.2
50°-60°	2317.1	19.2
60°-70°	2944.0	24.3
70°-80°	2386.6	19.7
80°-90°	403.8	3.3
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°	12099.1	100.0
0°-180°	12099.1	100.0

Coefficient of Utilization



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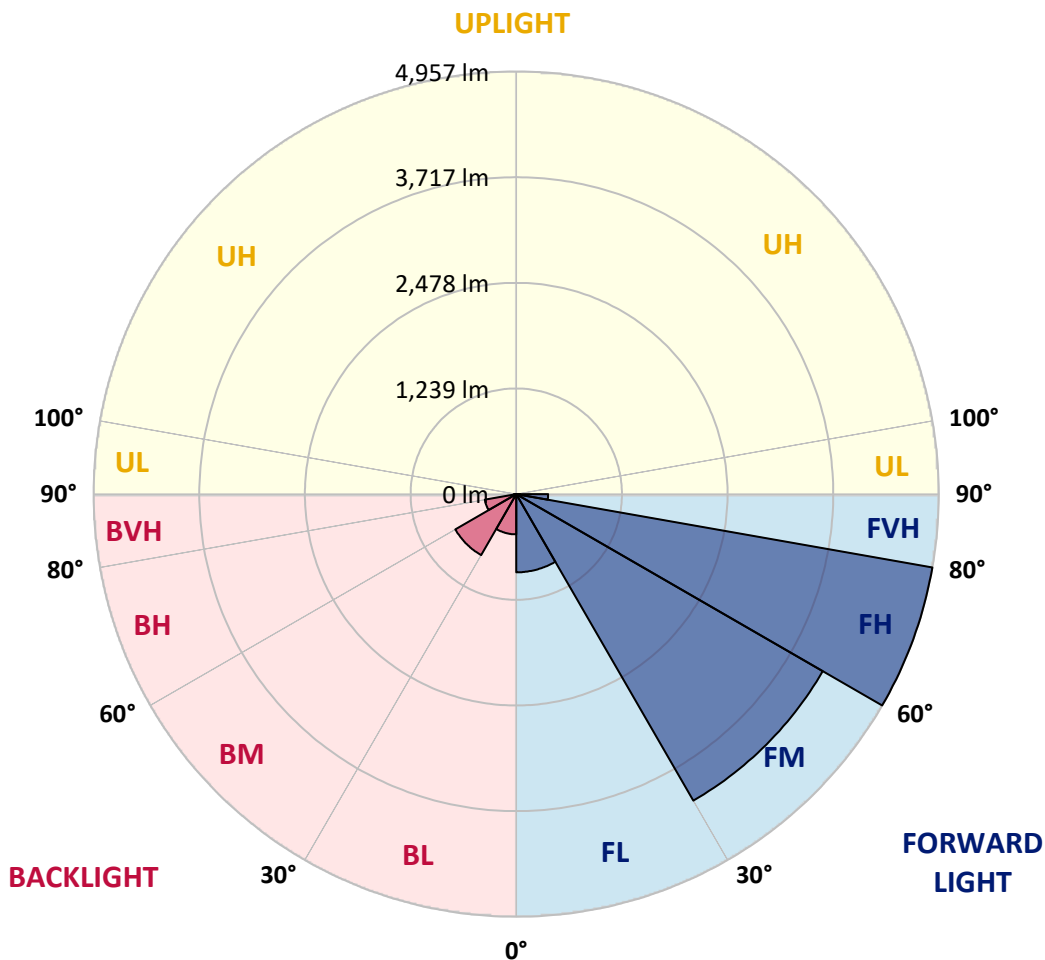
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	916.8	7.6			
FM (30°-60°)	4150.8	34.3			
FH (60°-80°)	4956.5	41.0			G2/5000
FVH (80°-90°)	374.2	3.1			G3/500
BL (0°-30°)	471.7	3.9	B1/500		
BM (30°-60°)	825.4	6.8	B1/1000		
BH (60°-80°)	374.1	3.1	B1/500		G1/500
BVH (80°-90°)	29.6	0.2			G1/100
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°	35°	39°	45°	55°	65°	75°	85°
0°	2153.7	2153.7	2153.7	2153.7	2153.7	2153.7	2153.7	2153.7	2153.7	2153.7	2153.7
2.5°	2205.2	2182.1	2186.2	2178.1	2186.2	2183.5	2179.4	2159.1	2179.4	2159.1	2153.7
5°	2175.4	2175.4	2188.9	2168.6	2171.3	2157.8	2171.3	2156.4	2142.9	2109.0	2099.6
7.5°	2165.9	2164.5	2165.9	2137.5	2151.0	2142.9	2129.3	2113.1	2086.0	2064.4	2033.2
10°	2100.9	2114.5	2099.6	2107.7	2118.5	2094.1	2092.8	2088.7	2076.6	2048.1	2029.2
12.5°	2065.7	2088.7	2096.9	2090.1	2099.6	2102.3	2094.1	2088.7	2073.8	2054.9	2000.7
15°	2080.6	2053.5	2076.6	2121.2	2111.7	2118.5	2119.9	2114.5	2107.7	2072.5	2037.3
17.5°	2084.7	2068.4	2117.2	2126.6	2138.8	2163.2	2146.9	2145.6	2119.9	2095.5	2044.1
20°	2094.1	2087.4	2126.6	2176.7	2178.1	2182.1	2190.3	2170.0	2156.4	2114.5	2035.9
22.5°	2129.3	2152.4	2188.9	2210.6	2222.7	2225.5	2225.5	2184.8	2170.0	2136.1	2073.8
25°	2234.9	2210.6	2262.0	2287.7	2270.1	2266.1	2256.6	2220.0	2203.8	2174.0	2091.4
27.5°	2312.1	2310.7	2340.5	2375.7	2328.3	2337.8	2304.0	2293.1	2256.6	2240.3	2122.6
30°	2417.7	2447.5	2446.1	2456.9	2394.7	2405.5	2362.2	2341.9	2321.6	2331.0	2214.6
32.5°	2553.0	2542.2	2559.8	2551.7	2489.4	2498.9	2447.5	2416.3	2423.1	2451.5	2340.5
35°	2639.7	2628.9	2635.6	2635.6	2616.7	2605.8	2584.2	2543.6	2576.1	2628.9	2481.3
37.5°	2733.1	2746.6	2785.9	2777.8	2753.4	2753.4	2750.7	2722.3	2764.2	2894.2	2706.0
40°	2815.7	2852.2	2876.6	2892.8	2921.3	2921.3	2944.3	2928.0	3003.8	3212.3	2980.8
42.5°	2902.3	2903.7	3036.3	3048.5	3112.1	3139.2	3156.8	3170.3	3312.5	3545.3	3274.6
45°	3013.3	3020.1	3136.5	3229.9	3328.7	3338.2	3404.5	3449.2	3623.8	3909.4	3594.0
47.5°	3159.5	3151.4	3275.9	3424.8	3548.0	3613.0	3692.8	3741.6	3956.8	4304.7	3943.3
50°	3351.7	3327.4	3399.1	3633.3	3778.1	3849.9	3992.0	4073.2	4325.0	4682.4	4182.9
52.5°	3585.9	3545.3	3602.2	3858.0	4020.4	4165.3	4300.7	4391.4	4654.0	4974.8	4360.2
55°	3833.6	3749.7	3765.9	4096.2	4330.4	4467.2	4652.6	4747.4	5015.4	5237.4	4537.5
57.5°	4078.6	4025.9	3993.4	4325.0	4700.0	4831.3	5001.9	5125.0	5352.5	5470.2	4687.8
60°	4284.4	4270.9	4218.1	4679.7	5091.2	5203.6	5382.2	5458.1	5630.0	5685.5	4690.5
62.5°	4453.6	4407.6	4491.5	4965.3	5489.2	5616.4	5812.7	5819.5	5941.3	5819.5	4552.4
65°	4586.3	4589.0	4723.0	5310.5	5949.4	6137.6	6296.0	6278.4	6199.9	5739.6	4226.2
67.5°	4706.8	4758.2	4954.5	5689.5	6541.0	6718.3	6894.3	6661.5	6270.3	5366.0	3588.6
70°	4801.5	4853.0	5267.2	6151.1	7238.1	7498.1	7537.3	6813.1	5946.7	4545.7	2707.4
72.5°	4790.7	4884.1	5444.5	6519.3	7856.8	8081.5	7764.7	6386.7	4954.5	3169.0	1579.7
73°	4813.7	4859.7	5429.6	6622.2	8044.9	8157.3	7659.1	6252.7	4672.9	2842.7	1336.1
75°	4369.7	4525.4	5160.2	6454.4	7843.2	7822.9	7052.7	5210.3	3321.9	1493.1	647.1
77.5°	3232.6	3331.4	4066.5	5307.8	6438.1	6308.2	5320.0	3330.1	1577.0	553.7	349.3
80°	1579.7	1656.9	2155.1	3064.7	4210.0	4220.8	3301.6	1732.7	675.5	312.7	238.2
82.5°	789.2	835.2	1035.6	1346.9	2071.1	2170.0	1674.5	985.5	418.3	177.3	135.4
85°	515.8	548.2	637.6	659.2	878.5	927.3	779.7	768.9	272.1	96.1	109.6
87.5°	342.5	347.9	391.2	333.0	352.0	338.4	376.3	484.6	79.9	40.6	29.8
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°	2153.7	2153.7	2153.7	2153.7	2153.7	2153.7	2153.7	2153.7	2153.7	2153.7	2153.7
2.5°	2146.9	2128.0	2107.7	2079.3	2059.0	2027.8	1999.4	1987.2	1984.5	1985.9	1972.3
5°	2091.4	2064.4	2023.8	1965.5	1931.7	1880.3	1836.9	1813.9	1789.6	1793.6	1782.8
7.5°	2014.3	1984.5	1922.2	1854.5	1770.6	1697.5	1656.9	1600.1	1567.6	1543.2	1556.7
10°	1989.9	1938.5	1845.1	1751.7	1621.7	1525.6	1432.2	1367.2	1322.5	1279.2	1298.2
12.5°	1977.7	1926.3	1796.3	1658.3	1490.4	1344.2	1212.9	1133.0	1069.4	1031.5	1046.4
15°	1966.9	1903.3	1750.3	1555.4	1367.2	1175.0	1027.4	921.9	860.9	824.4	828.5
17.5°	1981.8	1891.1	1682.6	1455.2	1231.9	1026.1	862.3	752.6	690.4	667.4	662.0
20°	1966.9	1877.6	1616.3	1355.0	1096.5	884.0	726.9	636.2	592.9	574.0	569.9
22.5°	1972.3	1845.1	1547.3	1244.0	970.6	764.8	636.2	567.2	533.4	523.9	526.6
25°	1998.0	1826.1	1478.2	1122.2	846.1	676.8	578.0	525.2	500.9	491.4	494.1
27.5°	2017.0	1842.4	1416.0	1007.1	740.5	598.3	529.3	494.1	477.9	471.1	469.7
30°	2064.4	1851.8	1355.0	904.3	653.8	546.9	495.4	467.0	456.2	452.1	450.8
32.5°	2134.8	1869.4	1284.6	809.5	590.2	498.2	468.4	444.0	441.3	437.2	438.6
35°	2249.8	1930.4	1206.1	728.3	529.3	465.7	439.9	423.7	423.7	423.7	427.8
37.5°	2415.0	2015.6	1135.7	651.1	490.0	437.2	415.6	410.2	407.5	411.5	414.2
40°	2627.5	2118.5	1078.9	590.2	456.2	418.3	399.3	396.6	395.3	393.9	396.6
42.5°	2860.3	2249.8	1030.2	542.8	431.8	398.0	384.4	381.7	376.3	379.0	383.1
45°	3091.8	2412.3	986.8	504.9	415.6	387.2	368.2	366.8	364.1	362.8	369.6
47.5°	3349.0	2572.0	973.3	481.9	403.4	370.9	357.4	356.0	347.9	346.5	352.0
50°	3549.4	2689.8	988.2	471.1	385.8	358.7	349.3	342.5	335.7	328.9	328.9
52.5°	3687.4	2771.0	999.0	463.0	376.3	342.5	330.3	327.6	320.8	314.1	311.3
55°	3812.0	2819.7	1001.7	464.3	366.8	323.5	315.4	314.1	310.0	299.2	296.5
57.5°	3853.9	2799.4	947.6	452.1	361.4	311.3	300.5	303.2	297.8	288.3	287.0
60°	3849.9	2658.6	824.4	435.9	349.3	297.8	284.3	292.4	292.4	281.6	280.2
62.5°	3615.7	2333.8	674.1	404.8	335.7	284.3	269.4	281.6	285.6	278.9	277.5
65°	3129.7	1900.6	563.1	373.6	315.4	269.4	254.5	268.0	274.8	272.1	270.7
67.5°	2589.6	1453.9	468.4	333.0	289.7	249.1	236.9	246.4	250.4	251.8	253.1
70°	1830.2	967.9	391.2	288.3	254.5	227.4	213.9	215.2	213.9	217.9	217.9
72.5°	995.0	557.7	318.1	245.0	219.3	197.6	188.2	181.4	181.4	180.0	180.0
73°	851.5	500.9	303.2	238.2	209.8	192.2	181.4	176.0	176.0	174.6	173.3
75°	477.9	366.8	259.9	204.4	181.4	167.9	159.7	151.6	150.3	150.3	150.3
77.5°	314.1	285.6	207.1	163.8	146.2	134.0	131.3	123.2	123.2	123.2	121.8
80°	235.5	224.7	159.7	124.5	112.4	102.9	100.2	94.8	93.4	88.0	89.3
82.5°	157.0	177.3	116.4	88.0	75.8	70.4	70.4	69.0	65.0	58.2	58.2
85°	124.5	144.8	83.9	54.1	44.7	37.9	39.3	37.9	36.5	29.8	28.4
87.5°	23.0	58.2	24.4	14.9	10.8	6.8	6.8	4.1	2.7	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)