

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: P480729

Luminaire Tested: **IFLD-S-SA2E-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480729
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

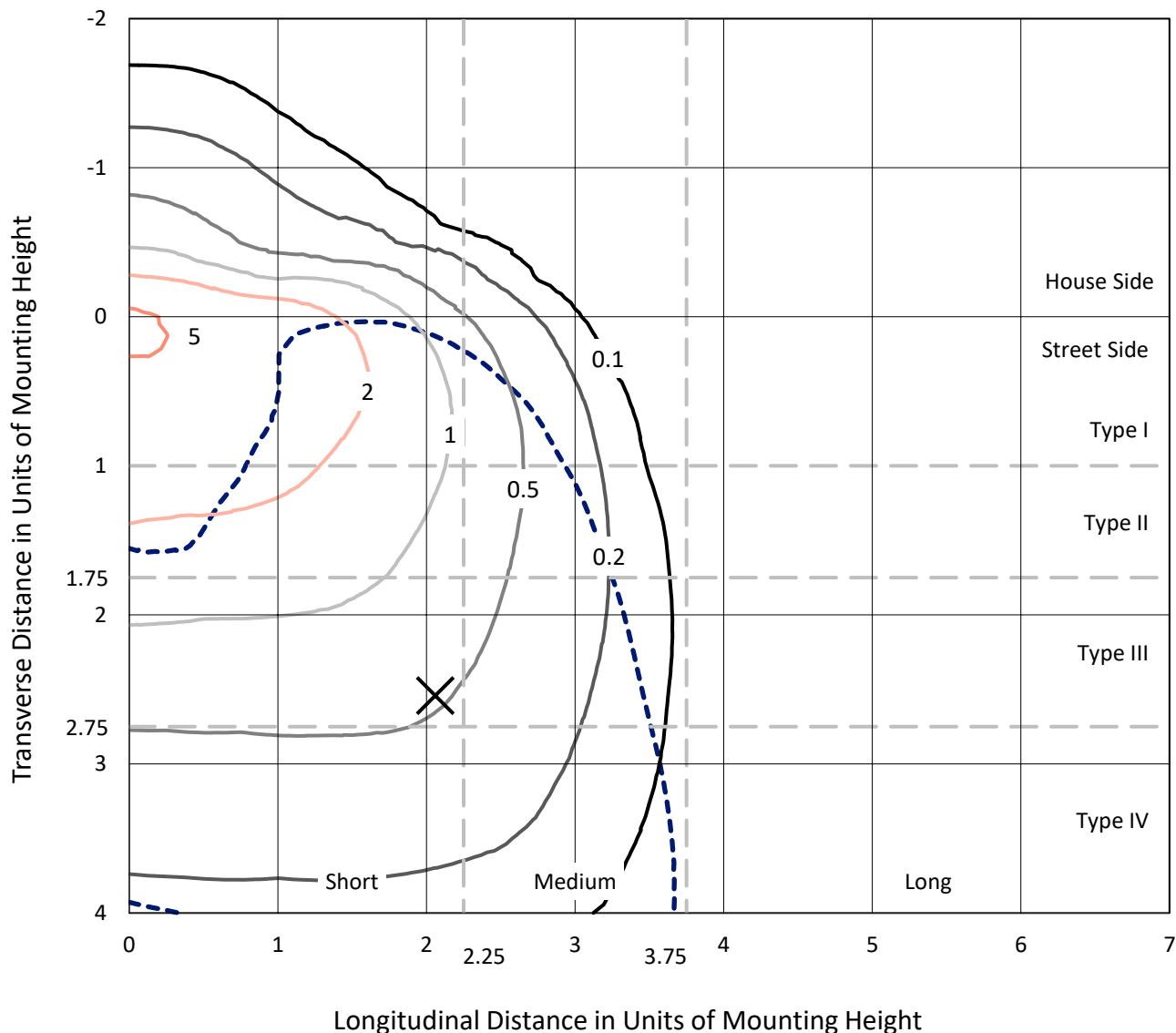
Lumens per Lamp: N/A
Luminaire Lumens: 12895.8 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.2
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

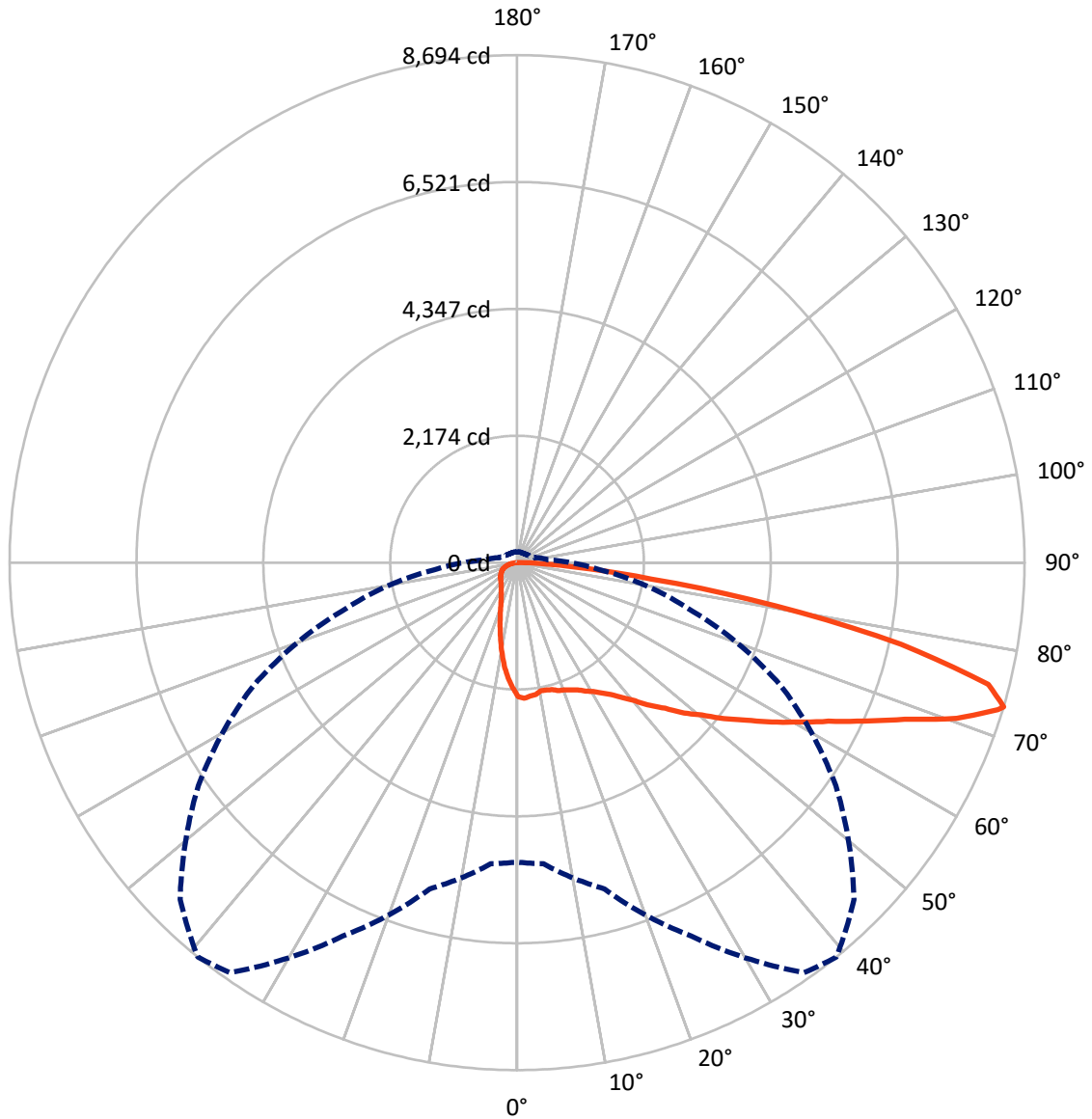
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 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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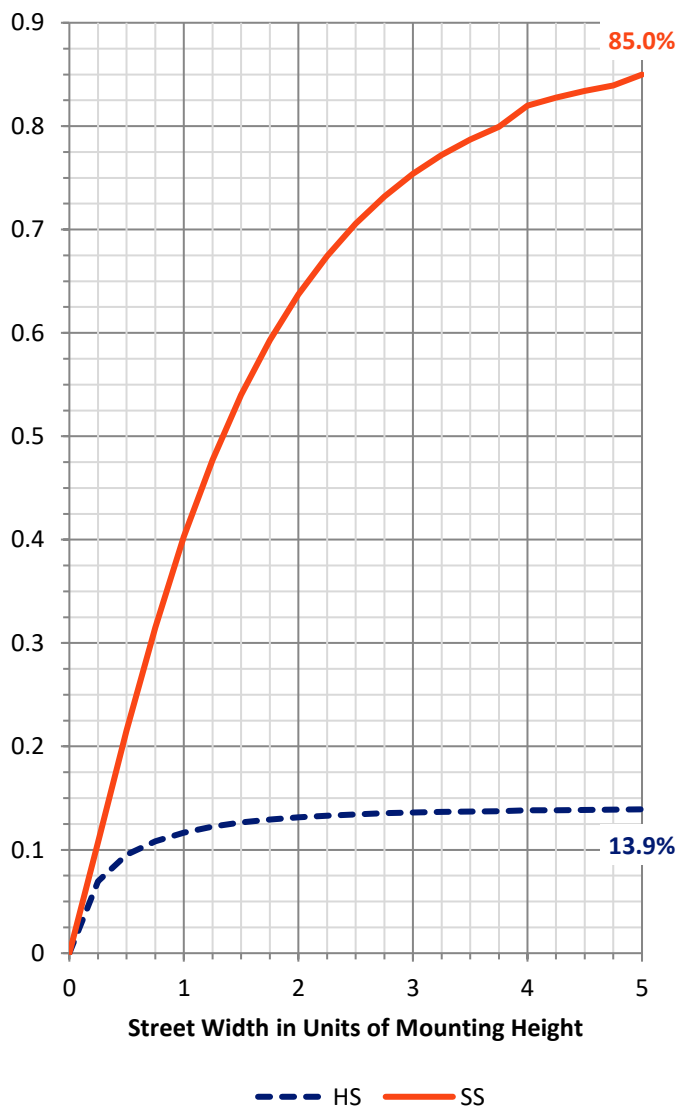
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1812.8	0.0	1812.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11083.0	0.0	11083.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	12895.8	0.0	12895.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.3	1.5
10°-20°	506.6	3.9
20°-30°	774.1	6.0
30°-40°	1128.7	8.8
40°-50°	1705.5	13.2
50°-60°	2469.7	19.2
60°-70°	3137.9	24.3
70°-80°	2543.7	19.7
80°-90°	430.4	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°	12895.8	100.0
0°-180°	12895.8	100.0

Coefficient of Utilization



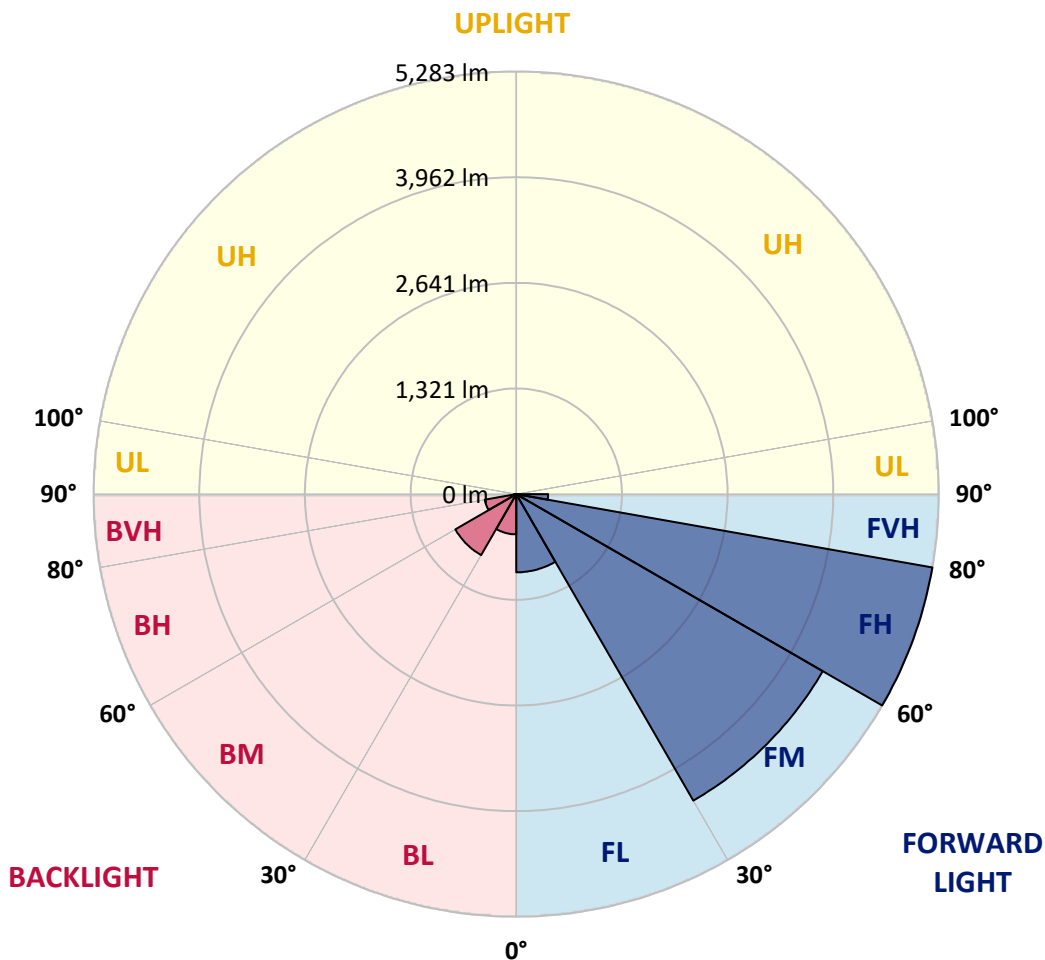
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	977.2	7.6			
FM (30°-60°)	4424.1	34.3			
FH (60°-80°)	5282.9	41.0			G3/7500
FVH (80°-90°)	398.8	3.1			G3/500
BL (0°-30°)	502.7	3.9	B2/1000		
BM (30°-60°)	879.8	6.8	B1/1000		
BH (60°-80°)	398.7	3.1	B1/500		G1/500
BVH (80°-90°)	31.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2295.5	2295.5	2295.5	2295.5	2295.5	2295.5	2295.5	2295.5	2295.5	2295.5	2295.5
2.5°	2350.4	2325.8	2330.2	2321.5	2330.2	2327.3	2322.9	2301.3	2322.9	2301.3	2295.5
5°	2318.6	2318.6	2333.0	2311.4	2314.3	2299.9	2314.3	2298.4	2284.0	2247.9	2237.8
7.5°	2308.5	2307.1	2308.5	2278.2	2292.6	2284.0	2269.6	2252.2	2223.4	2200.3	2167.1
10°	2239.3	2253.7	2237.8	2246.5	2258.0	2232.0	2230.6	2226.3	2213.3	2183.0	2162.8
12.5°	2201.7	2226.3	2234.9	2227.7	2237.8	2240.7	2232.0	2226.3	2210.4	2190.2	2132.5
15°	2217.6	2188.8	2213.3	2260.9	2250.8	2258.0	2259.5	2253.7	2246.5	2209.0	2171.4
17.5°	2221.9	2204.6	2256.6	2266.7	2279.7	2305.6	2288.3	2286.9	2259.5	2233.5	2178.7
20°	2232.0	2224.8	2266.7	2320.1	2321.5	2325.8	2334.5	2312.8	2298.4	2253.7	2170.0
22.5°	2269.6	2294.1	2333.0	2356.1	2369.1	2372.0	2372.0	2328.7	2312.8	2276.8	2210.4
25°	2382.1	2356.1	2411.0	2438.4	2419.6	2415.3	2405.2	2366.2	2348.9	2317.2	2229.2
27.5°	2464.3	2462.9	2494.6	2532.1	2481.6	2491.7	2455.7	2444.1	2405.2	2387.9	2262.3
30°	2576.9	2608.6	2607.2	2618.7	2552.3	2563.9	2517.7	2496.1	2474.4	2484.5	2360.5
32.5°	2721.2	2709.6	2728.4	2719.7	2653.3	2663.4	2608.6	2575.4	2582.6	2612.9	2494.6
35°	2813.5	2802.0	2809.2	2809.2	2789.0	2777.4	2754.3	2711.1	2745.7	2802.0	2644.7
37.5°	2913.1	2927.5	2969.3	2960.7	2934.7	2934.7	2931.8	2901.5	2946.2	3084.7	2884.2
40°	3001.1	3040.0	3066.0	3083.3	3113.6	3113.6	3138.1	3120.8	3201.6	3423.8	3177.1
42.5°	3093.4	3094.8	3236.2	3249.2	3317.0	3345.9	3364.7	3379.1	3530.6	3778.7	3490.2
45°	3211.7	3218.9	3343.0	3442.6	3547.9	3558.0	3628.7	3676.3	3862.4	4166.9	3830.7
47.5°	3367.5	3358.9	3491.6	3650.3	3781.6	3850.9	3936.0	3988.0	4217.4	4588.2	4202.9
50°	3572.4	3546.4	3622.9	3872.5	4026.9	4103.4	4254.9	4341.4	4609.8	4990.7	4458.3
52.5°	3822.0	3778.7	3839.3	4112.0	4285.2	4439.6	4583.8	4680.5	4960.4	5302.4	4647.3
55°	4086.1	3996.6	4013.9	4366.0	4615.6	4761.3	4959.0	5060.0	5345.6	5582.3	4836.3
57.5°	4347.2	4290.9	4256.3	4609.8	5009.5	5149.4	5331.2	5462.5	5704.9	5830.4	4996.5
60°	4566.5	4552.1	4495.8	4987.8	5426.4	5546.2	5736.6	5817.4	6000.7	6059.8	4999.4
62.5°	4746.9	4697.8	4787.3	5292.3	5850.6	5986.3	6195.5	6202.7	6332.5	6202.7	4852.2
65°	4888.3	4891.2	5034.0	5660.2	6341.2	6541.7	6710.6	6691.8	6608.1	6117.6	4504.5
67.5°	5016.7	5071.5	5280.7	6064.2	6971.7	7160.7	7348.3	7100.1	6683.1	5719.3	3824.9
70°	5117.7	5172.5	5614.0	6556.2	7714.8	7991.8	8033.6	7261.7	6338.3	4845.0	2885.6
72.5°	5106.1	5205.7	5803.0	6948.6	8374.1	8613.6	8276.0	6807.2	5280.7	3377.6	1683.8
73°	5130.7	5179.7	5787.1	7058.3	8574.7	8694.4	8163.5	6664.4	4980.6	3029.9	1424.1
75°	4657.4	4823.3	5500.0	6879.4	8359.7	8338.1	7517.1	5553.4	3540.7	1591.4	689.7
77.5°	3445.5	3550.8	4334.2	5657.3	6862.0	6723.5	5670.3	3549.3	1680.9	590.1	372.2
80°	1683.8	1766.0	2297.0	3266.5	4487.2	4498.7	3519.0	1846.8	720.0	333.3	253.9
82.5°	841.2	890.2	1103.8	1435.6	2207.5	2312.8	1784.8	1050.4	445.8	189.0	144.3
85°	549.7	584.3	679.6	702.7	936.4	988.3	831.1	819.5	290.0	102.4	116.9
87.5°	365.0	370.8	417.0	354.9	375.1	360.7	401.1	516.5	85.1	43.3	31.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2295.5	2295.5	2295.5	2295.5	2295.5	2295.5	2295.5	2295.5	2295.5	2295.5	2295.5
2.5°	2288.3	2268.1	2246.5	2216.2	2194.5	2161.3	2131.0	2118.1	2115.2	2116.6	2102.2
5°	2229.2	2200.3	2157.0	2095.0	2058.9	2004.1	1957.9	1933.4	1907.4	1911.7	1900.2
7.5°	2146.9	2115.2	2048.8	1976.7	1887.2	1809.3	1766.0	1705.4	1670.8	1644.8	1659.2
10°	2120.9	2066.1	1966.6	1867.0	1728.5	1626.1	1526.5	1457.2	1409.6	1363.5	1383.7
12.5°	2108.0	2053.1	1914.6	1767.5	1588.5	1432.7	1292.8	1207.6	1139.8	1099.4	1115.3
15°	2096.4	2028.6	1865.6	1657.8	1457.2	1252.4	1095.1	982.6	917.6	878.7	883.0
17.5°	2112.3	2015.6	1793.4	1551.0	1313.0	1093.7	919.1	802.2	735.8	711.3	705.5
20°	2096.4	2001.2	1722.7	1444.3	1168.7	942.2	774.8	678.1	632.0	611.8	607.4
22.5°	2102.2	1966.6	1649.1	1326.0	1034.5	815.2	678.1	604.5	568.5	558.4	561.3
25°	2129.6	1946.4	1575.6	1196.1	901.8	721.4	616.1	559.8	533.8	523.7	526.6
27.5°	2149.8	1963.7	1509.2	1073.5	789.2	637.7	564.1	526.6	509.3	502.1	500.7
30°	2200.3	1973.8	1444.3	963.8	696.9	582.9	528.1	497.8	486.2	481.9	480.5
32.5°	2275.3	1992.5	1369.2	862.8	629.1	531.0	499.2	473.2	470.4	466.0	467.5
35°	2398.0	2057.5	1285.6	776.2	564.1	496.3	468.9	451.6	451.6	451.6	455.9
37.5°	2574.0	2148.4	1210.5	694.0	522.3	466.0	442.9	437.2	434.3	438.6	441.5
40°	2800.5	2258.0	1149.9	629.1	486.2	445.8	425.6	422.7	421.3	419.9	422.7
42.5°	3048.7	2398.0	1098.0	578.6	460.3	424.2	409.8	406.9	401.1	404.0	408.3
45°	3295.4	2571.1	1051.8	538.2	442.9	412.6	392.4	391.0	388.1	386.7	393.9
47.5°	3569.5	2741.4	1037.4	513.6	430.0	395.3	380.9	379.5	370.8	369.4	375.1
50°	3783.1	2866.9	1053.3	502.1	411.2	382.3	372.2	365.0	357.8	350.6	350.6
52.5°	3930.2	2953.5	1064.8	493.4	401.1	365.0	352.0	349.2	341.9	334.7	331.8
55°	4063.0	3005.4	1067.7	494.9	391.0	344.8	336.2	334.7	330.4	318.9	316.0
57.5°	4107.7	2983.8	1010.0	481.9	385.2	331.8	320.3	323.2	317.4	307.3	305.9
60°	4103.4	2833.7	878.7	464.6	372.2	317.4	303.0	311.6	311.6	300.1	298.7
62.5°	3853.8	2487.4	718.5	431.4	357.8	303.0	287.1	300.1	304.4	297.2	295.8
65°	3335.8	2025.7	600.2	398.2	336.2	287.1	271.3	285.7	292.9	290.0	288.6
67.5°	2760.1	1549.6	499.2	354.9	308.8	265.5	252.5	262.6	266.9	268.4	269.8
70°	1950.7	1031.6	417.0	307.3	271.3	242.4	228.0	229.4	228.0	232.3	232.3
72.5°	1060.5	594.4	339.1	261.2	233.7	210.7	200.6	193.3	193.3	191.9	191.9
73°	907.5	533.8	323.2	253.9	223.6	204.9	193.3	187.6	187.6	186.1	184.7
75°	509.3	391.0	277.0	217.9	193.3	178.9	170.3	161.6	160.2	160.2	160.2
77.5°	334.7	304.4	220.8	174.6	155.8	142.8	140.0	131.3	131.3	131.3	129.9
80°	251.1	239.5	170.3	132.7	119.8	109.7	106.8	101.0	99.6	93.8	95.2
82.5°	167.4	189.0	124.1	93.8	80.8	75.0	75.0	73.6	69.3	62.0	62.0
85°	132.7	154.4	89.5	57.7	47.6	40.4	41.8	40.4	39.0	31.7	30.3
87.5°	24.5	62.0	26.0	15.9	11.5	7.2	7.2	4.3	2.9	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)