

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: P481002

Luminaire Tested: **IFLD-S-SA2E-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481002
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

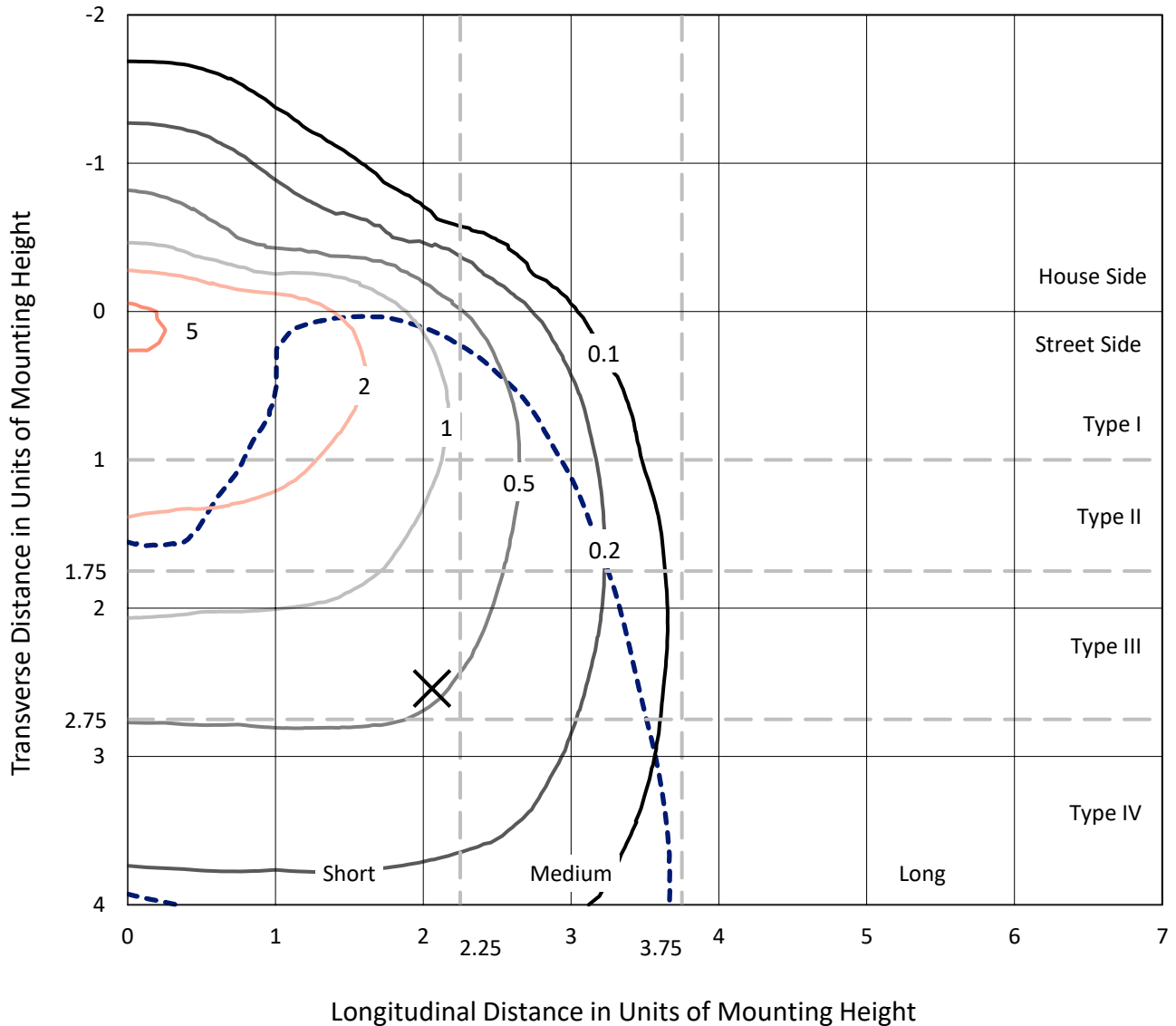
Lumens per Lamp: N/A
Luminaire Lumens: 12869.5 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

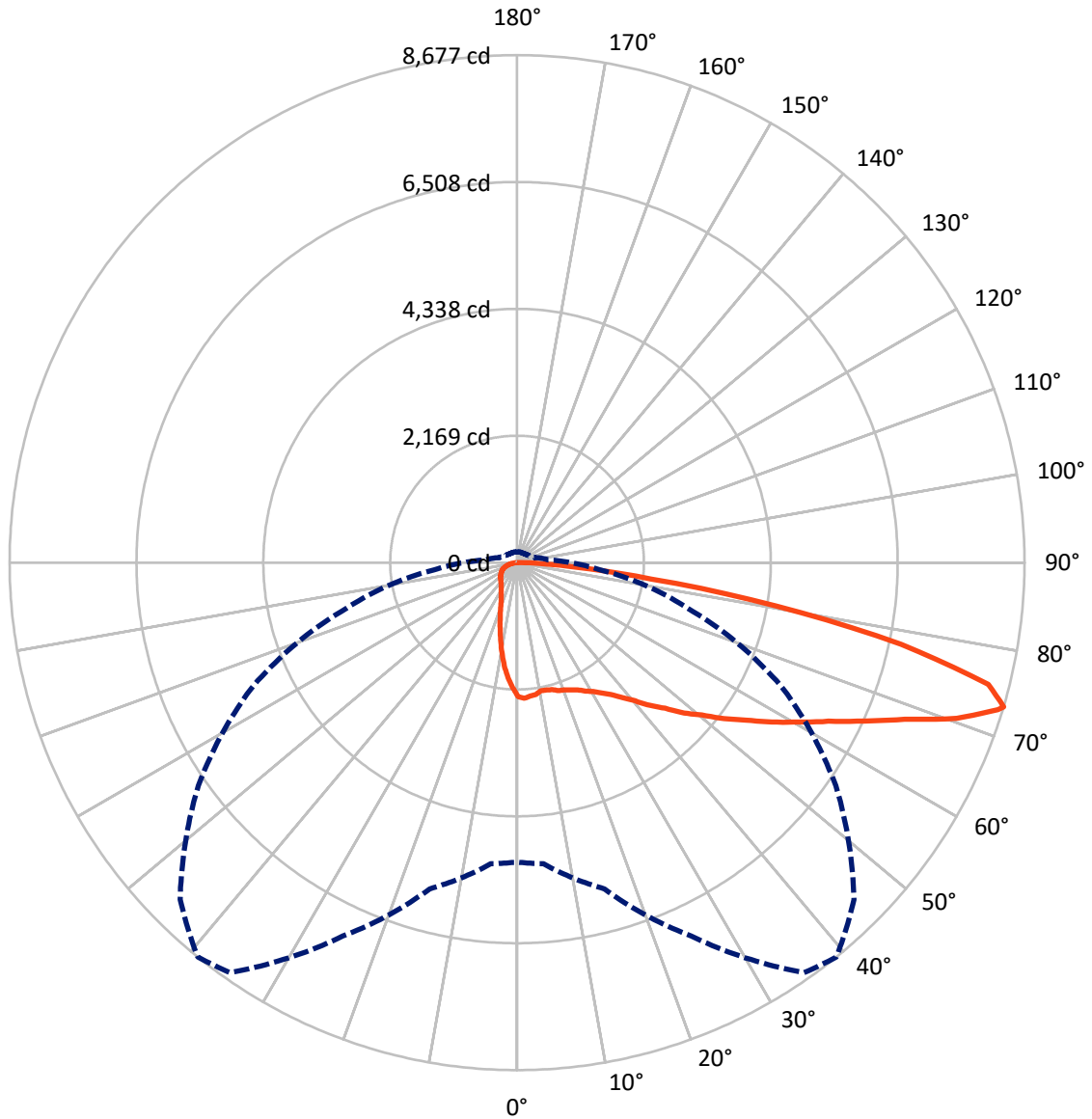
× Max cd
 - - - 1/2 Max cd



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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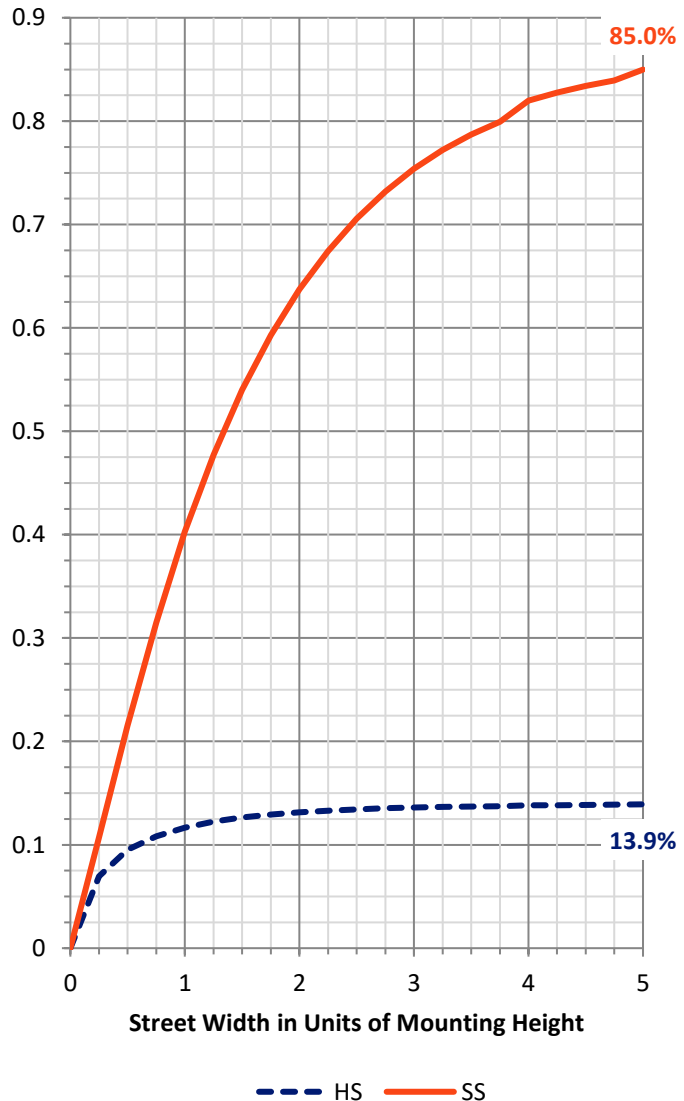
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1809.1	0.0	1809.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11060.4	0.0	11060.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	12869.5	0.0	12869.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.9	1.5
10°-20°	505.5	3.9
20°-30°	772.5	6.0
30°-40°	1126.4	8.8
40°-50°	1702.0	13.2
50°-60°	2464.7	19.2
60°-70°	3131.5	24.3
70°-80°	2538.5	19.7
80°-90°	429.5	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°	12869.5	100.0
0°-180°	12869.5	100.0

Coefficient of Utilization



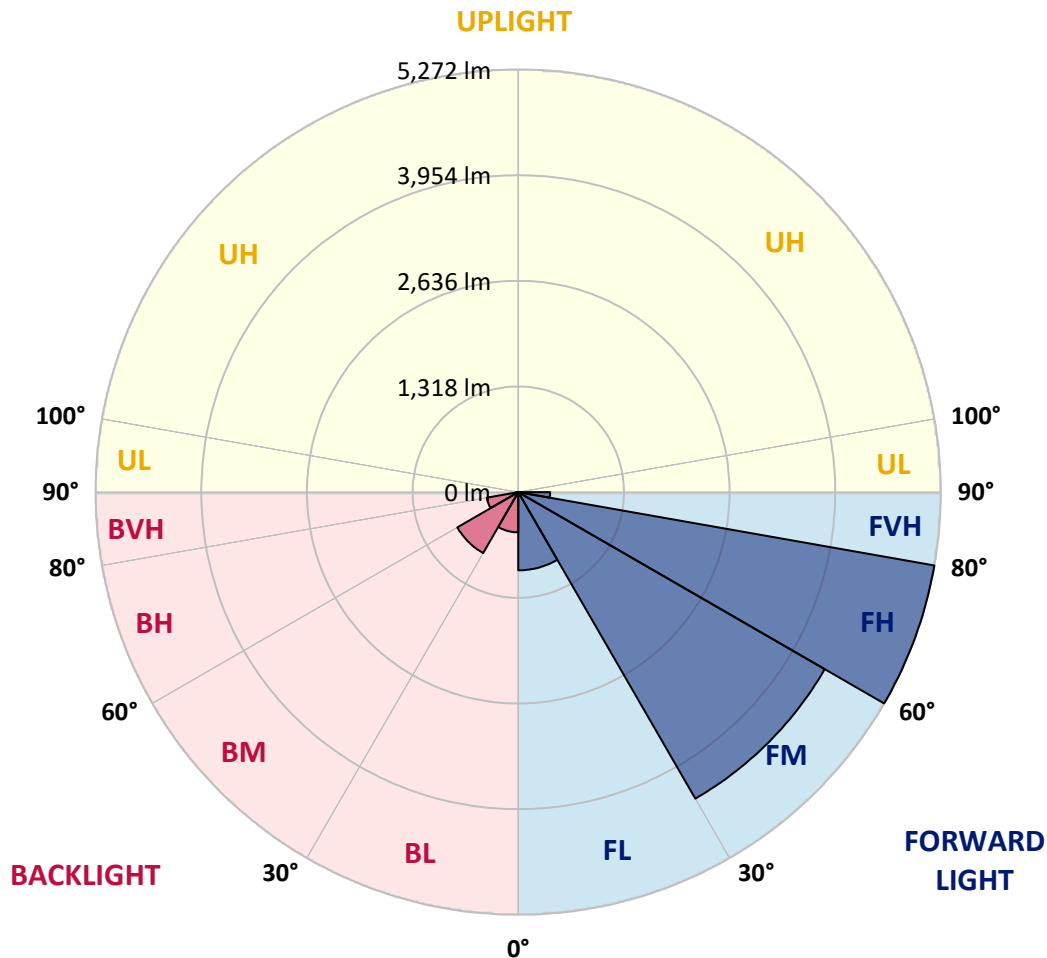
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	975.2	7.6			
FM (30°-60°)	4415.1	34.3			
FH (60°-80°)	5272.1	41.0			G3/7500
FVH (80°-90°)	398.0	3.1			G3/500
BL (0°-30°)	501.7	3.9	B2/1000		
BM (30°-60°)	878.0	6.8	B1/1000		
BH (60°-80°)	397.9	3.1	B1/500		G1/500
BVH (80°-90°)	31.5	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°	2290.9	2290.9	2290.9	2290.9	2290.9	2290.9	2290.9	2290.9	2290.9	2290.9	2290.9
2.5°	2345.6	2321.1	2325.4	2316.8	2325.4	2322.5	2318.2	2296.6	2318.2	2296.6	2290.9
5°	2313.9	2313.9	2328.3	2306.7	2309.6	2295.2	2309.6	2293.7	2279.3	2243.3	2233.3
7.5°	2303.8	2302.4	2303.8	2273.6	2288.0	2279.3	2264.9	2247.7	2218.9	2195.8	2162.7
10°	2234.7	2249.1	2233.3	2241.9	2253.4	2227.5	2226.1	2221.7	2208.8	2178.5	2158.4
12.5°	2197.3	2221.7	2230.4	2223.2	2233.3	2236.1	2227.5	2221.7	2205.9	2185.7	2128.1
15°	2213.1	2184.3	2208.8	2256.3	2246.2	2253.4	2254.9	2249.1	2241.9	2204.5	2167.0
17.5°	2217.4	2200.1	2252.0	2262.1	2275.0	2300.9	2283.7	2282.2	2254.9	2228.9	2174.2
20°	2227.5	2220.3	2262.1	2315.3	2316.8	2321.1	2329.7	2308.1	2293.7	2249.1	2165.6
22.5°	2264.9	2289.4	2328.3	2351.3	2364.3	2367.2	2367.2	2324.0	2308.1	2272.1	2205.9
25°	2377.2	2351.3	2406.0	2433.4	2414.7	2410.4	2400.3	2361.4	2344.1	2312.4	2224.6
27.5°	2459.3	2457.9	2489.6	2527.0	2476.6	2486.7	2450.7	2439.2	2400.3	2383.0	2257.7
30°	2571.6	2603.3	2601.9	2613.4	2547.1	2558.7	2512.6	2491.0	2469.4	2479.5	2355.6
32.5°	2715.6	2704.1	2722.8	2714.2	2647.9	2658.0	2603.3	2570.2	2577.4	2607.6	2489.6
35°	2807.8	2796.2	2803.4	2803.4	2783.3	2771.8	2748.7	2705.5	2740.1	2796.2	2639.3
37.5°	2907.1	2921.5	2963.3	2954.6	2928.7	2928.7	2925.8	2895.6	2940.2	3078.5	2878.3
40°	2995.0	3033.8	3059.7	3077.0	3107.3	3107.3	3131.7	3114.5	3195.1	3416.8	3170.6
42.5°	3087.1	3088.5	3229.7	3242.6	3310.3	3339.1	3357.8	3372.2	3523.4	3771.0	3483.1
45°	3205.2	3212.4	3336.2	3435.6	3540.7	3550.7	3621.3	3668.8	3854.6	4158.4	3822.9
47.5°	3360.7	3352.0	3484.5	3642.9	3773.9	3843.0	3928.0	3979.8	4208.8	4578.8	4194.4
50°	3565.1	3539.2	3615.5	3864.6	4018.7	4095.0	4246.2	4332.6	4600.4	4980.5	4449.2
52.5°	3814.2	3771.0	3831.5	4103.7	4276.4	4430.5	4574.5	4671.0	4950.3	5291.6	4637.9
55°	4077.7	3988.5	4005.7	4357.1	4606.2	4751.6	4948.9	5049.7	5334.8	5570.9	4826.5
57.5°	4338.4	4282.2	4247.6	4600.4	4999.3	5138.9	5320.4	5451.4	5693.3	5818.6	4986.3
60°	4557.2	4542.8	4486.7	4977.7	5415.4	5534.9	5725.0	5805.6	5988.5	6047.5	4989.2
62.5°	4737.2	4688.3	4777.5	5281.5	5838.7	5974.1	6182.8	6190.0	6319.6	6190.0	4842.3
65°	4878.3	4881.2	5023.7	5648.7	6328.3	6528.4	6696.9	6678.2	6594.7	6105.1	4495.3
67.5°	5006.5	5061.2	5270.0	6051.8	6957.5	7146.1	7333.3	7085.7	6669.5	5707.7	3817.1
70°	5107.3	5162.0	5602.6	6542.8	7699.0	7975.5	8017.3	7246.9	6325.4	4835.1	2879.8
72.5°	5095.7	5195.1	5791.2	6934.5	8357.1	8596.1	8259.2	6793.4	5270.0	3370.8	1680.3
73°	5120.2	5169.2	5775.4	7043.9	8557.2	8676.7	8146.8	6650.8	4970.5	3023.8	1421.2
75°	4647.9	4813.5	5488.8	6865.4	8342.7	8321.1	7501.8	5542.1	3533.5	1588.2	688.3
77.5°	3438.4	3543.5	4325.4	5645.8	6848.1	6709.8	5658.7	3542.1	1677.5	588.9	371.5
80°	1680.3	1762.4	2292.3	3259.9	4478.0	4489.5	3511.9	1843.0	718.5	332.6	253.4
82.5°	839.5	888.4	1101.5	1432.7	2203.0	2308.1	1781.1	1048.2	444.9	188.6	144.0
85°	548.6	583.2	678.2	701.2	934.5	986.3	829.4	817.9	289.4	102.2	116.6
87.5°	364.3	370.0	416.1	354.2	374.4	360.0	400.3	515.5	85.0	43.2	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°	2290.9	2290.9	2290.9	2290.9	2290.9	2290.9	2290.9	2290.9	2290.9	2290.9	2290.9
2.5°	2283.7	2263.5	2241.9	2211.7	2190.1	2156.9	2126.7	2113.7	2110.9	2112.3	2097.9
5°	2224.6	2195.8	2152.6	2090.7	2054.7	2000.0	1953.9	1929.4	1903.5	1907.8	1896.3
7.5°	2142.5	2110.9	2044.6	1972.6	1883.4	1805.6	1762.4	1701.9	1667.4	1641.5	1655.9
10°	2116.6	2061.9	1962.6	1863.2	1725.0	1622.7	1523.4	1454.3	1406.8	1360.7	1380.8
12.5°	2103.7	2049.0	1910.7	1763.9	1585.3	1429.8	1290.1	1205.2	1137.5	1097.2	1113.0
15°	2092.1	2024.5	1861.8	1654.4	1454.3	1249.8	1092.9	980.6	915.8	876.9	881.2
17.5°	2108.0	2011.5	1789.8	1547.9	1310.3	1091.4	917.2	800.6	734.3	709.9	704.1
20°	2092.1	1997.1	1719.2	1441.3	1166.3	940.2	773.2	676.7	630.7	610.5	606.2
22.5°	2097.9	1962.6	1645.8	1323.3	1032.4	813.5	676.7	603.3	567.3	557.2	560.1
25°	2125.3	1942.4	1572.4	1193.7	899.9	719.9	614.8	558.7	532.8	522.7	525.6
27.5°	2145.4	1959.7	1506.1	1071.3	787.6	636.4	563.0	525.6	508.3	501.1	499.6
30°	2195.8	1969.8	1441.3	961.8	695.5	581.7	527.0	496.8	485.2	480.9	479.5
32.5°	2270.7	1988.5	1366.4	861.0	627.8	529.9	498.2	472.3	469.4	465.1	466.5
35°	2393.1	2053.3	1282.9	774.7	563.0	495.3	468.0	450.7	450.7	450.7	455.0
37.5°	2568.7	2144.0	1208.1	692.6	521.2	465.1	442.0	436.3	433.4	437.7	440.6
40°	2794.8	2253.4	1147.6	627.8	485.2	444.9	424.8	421.9	420.4	419.0	421.9
42.5°	3042.5	2393.1	1095.7	577.4	459.3	423.3	408.9	406.0	400.3	403.2	407.5
45°	3288.7	2565.9	1049.7	537.1	442.0	411.8	391.6	390.2	387.3	385.9	393.1
47.5°	3562.3	2735.8	1035.3	512.6	429.1	394.5	380.1	378.7	370.0	368.6	374.4
50°	3775.4	2861.0	1051.1	501.1	410.4	381.6	371.5	364.3	357.1	349.9	349.9
52.5°	3922.2	2947.4	1062.6	492.4	400.3	364.3	351.3	348.5	341.3	334.1	331.2
55°	4054.7	2999.3	1065.5	493.9	390.2	344.1	335.5	334.1	329.7	318.2	315.3
57.5°	4099.3	2977.7	1007.9	480.9	384.4	331.2	319.7	322.5	316.8	306.7	305.3
60°	4095.0	2827.9	876.9	463.6	371.5	316.8	302.4	311.0	311.0	299.5	298.1
62.5°	3845.9	2482.4	717.1	430.5	357.1	302.4	286.5	299.5	303.8	296.6	295.2
65°	3329.0	2021.6	599.0	397.4	335.5	286.5	270.7	285.1	292.3	289.4	288.0
67.5°	2754.5	1546.4	498.2	354.2	308.1	264.9	252.0	262.1	266.4	267.8	269.3
70°	1946.7	1029.5	416.1	306.7	270.7	241.9	227.5	228.9	227.5	231.8	231.8
72.5°	1058.3	593.2	338.4	260.6	233.3	210.2	200.1	192.9	192.9	191.5	191.5
73°	905.7	532.8	322.5	253.4	223.2	204.5	192.9	187.2	187.2	185.7	184.3
75°	508.3	390.2	276.5	217.4	192.9	178.5	169.9	161.3	159.8	159.8	159.8
77.5°	334.1	303.8	220.3	174.2	155.5	142.5	139.7	131.0	131.0	131.0	129.6
80°	250.5	239.0	169.9	132.5	119.5	109.4	106.6	100.8	99.4	93.6	95.0
82.5°	167.0	188.6	123.8	93.6	80.6	74.9	74.9	73.4	69.1	61.9	61.9
85°	132.5	154.1	89.3	57.6	47.5	40.3	41.8	40.3	38.9	31.7	30.2
87.5°	24.5	61.9	25.9	15.8	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)