

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: P481043

Luminaire Tested: **IFLD-S-SA3B-830-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481043
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

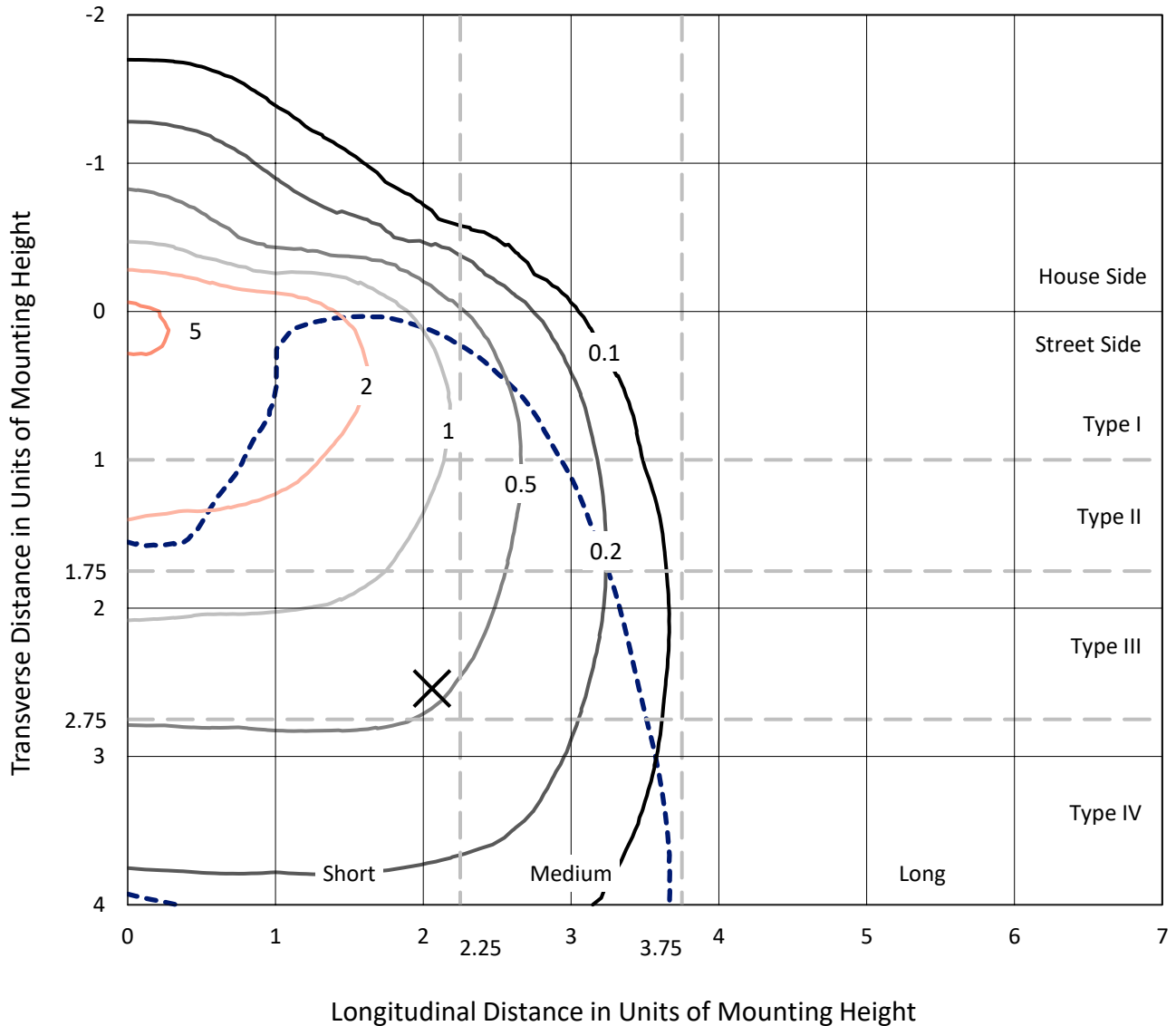
Lumens per Lamp: N/A
Luminaire Lumens: 13078.4 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

REPORT NUMBER: P481043
 CATALOG NUMBER: IFLD-S-SA3B-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

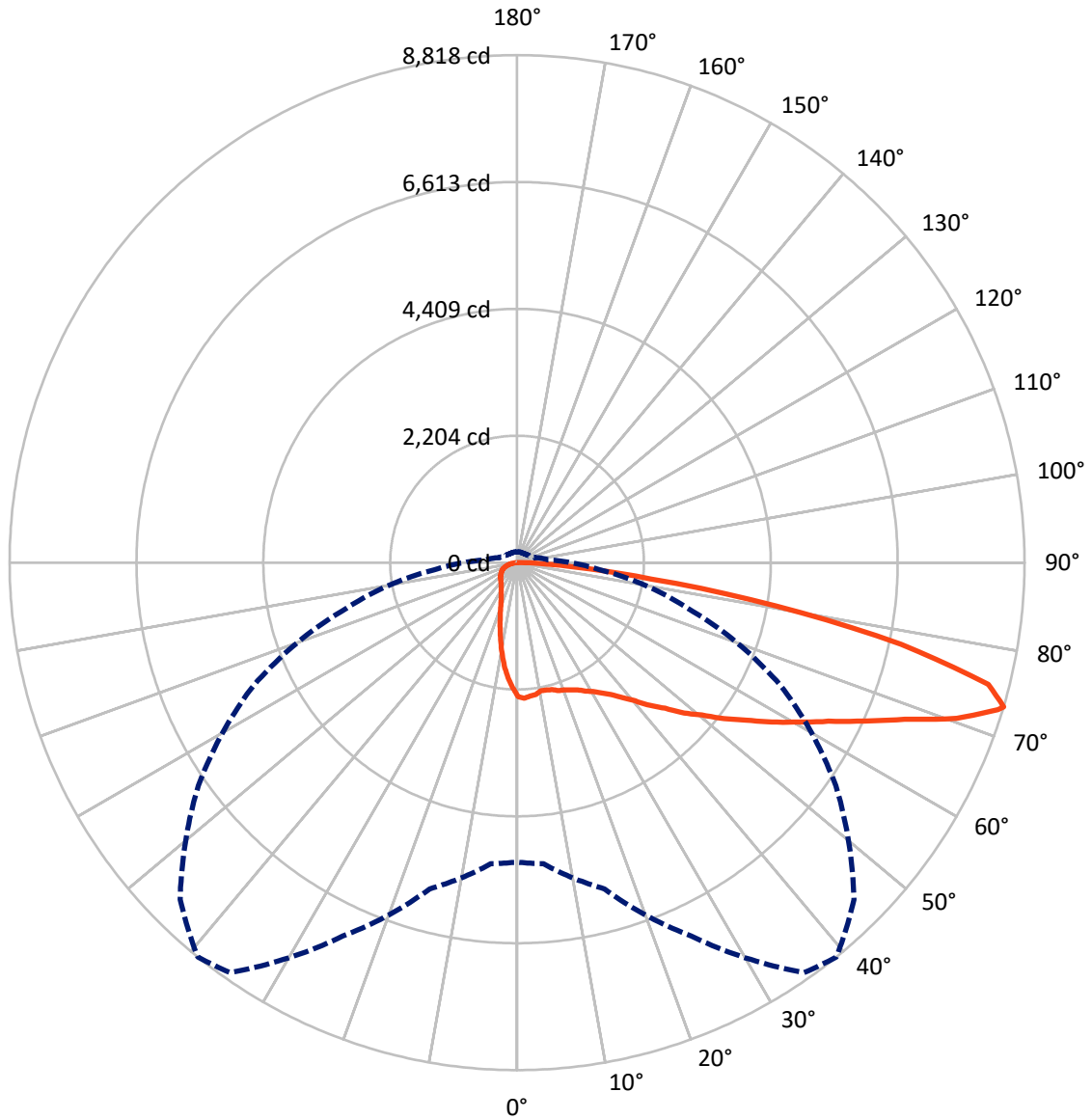
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P481043
CATALOG NUMBER: IFLD-S-SA3B-830-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P481043
 CATALOG NUMBER: IFLD-S-SA3B-830-U-SL4

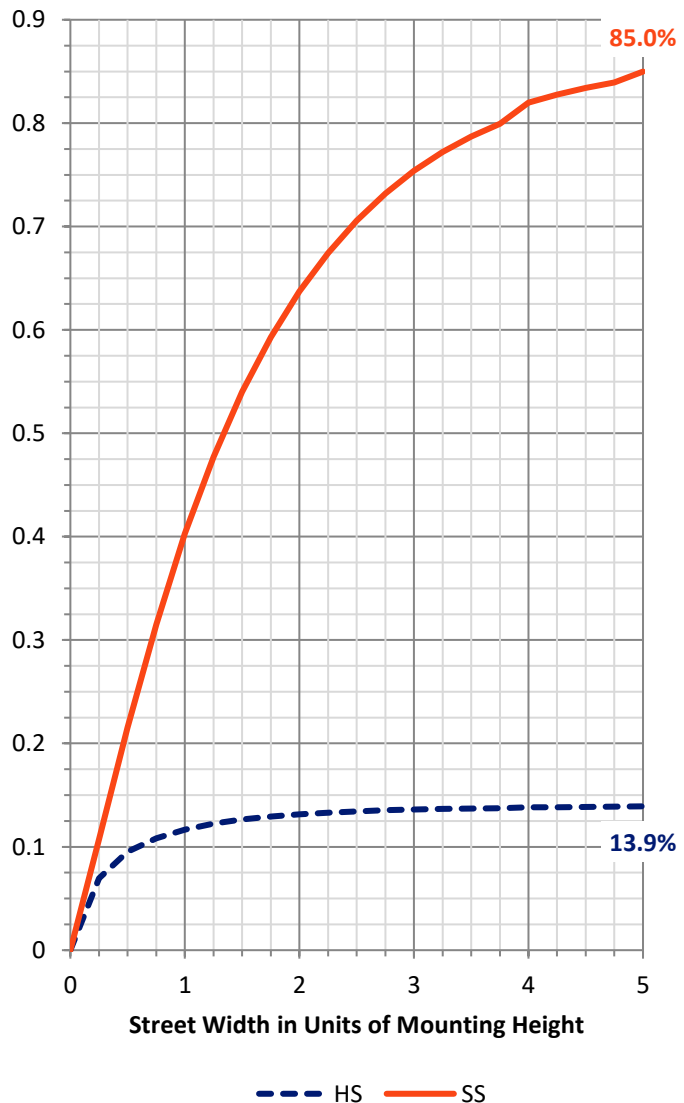
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1838.5	0.0	1838.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11239.9	0.0	11239.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	13078.4	0.0	13078.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.1	1.5
10°-20°	513.7	3.9
20°-30°	785.1	6.0
30°-40°	1144.6	8.8
40°-50°	1729.7	13.2
50°-60°	2504.7	19.2
60°-70°	3182.3	24.3
70°-80°	2579.7	19.7
80°-90°	436.5	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°	13078.4	100.0
0°-180°	13078.4	100.0

Coefficient of Utilization



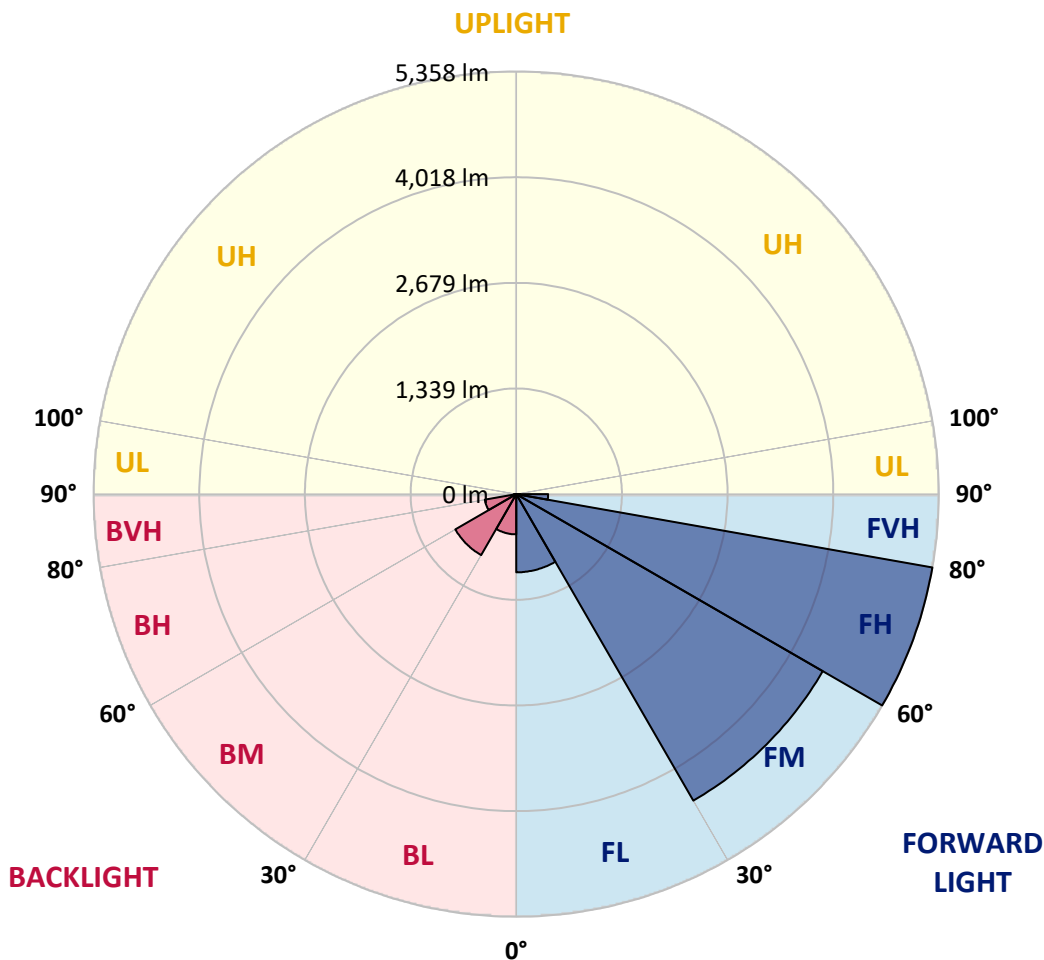
REPORT NUMBER: P481043
 CATALOG NUMBER: IFLD-S-SA3B-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	991.1	7.6			
FM (30°-60°)	4486.7	34.3			
FH (60°-80°)	5357.7	41.0			G3/7500
FVH (80°-90°)	404.5	3.1			G3/500
BL (0°-30°)	509.8	3.9	B2/1000		
BM (30°-60°)	892.2	6.8	B1/1000		
BH (60°-80°)	404.3	3.1	B1/500		G1/500
BVH (80°-90°)	32.0	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





REPORT NUMBER: P481043
 CATALOG NUMBER: IFLD-S-SA3B-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2328.0	2328.0	2328.0	2328.0	2328.0	2328.0	2328.0	2328.0	2328.0	2328.0	2328.0
2.5°	2383.6	2358.8	2363.2	2354.4	2363.2	2360.2	2355.8	2333.9	2355.8	2333.9	2328.0
5°	2351.4	2351.4	2366.1	2344.1	2347.1	2332.4	2347.1	2331.0	2316.3	2279.7	2269.5
7.5°	2341.2	2339.7	2341.2	2310.5	2325.1	2316.3	2301.7	2284.1	2254.9	2231.5	2197.8
10°	2271.0	2285.6	2269.5	2278.3	2290.0	2263.7	2262.2	2257.8	2244.6	2213.9	2193.4
12.5°	2232.9	2257.8	2266.6	2259.3	2269.5	2272.4	2263.7	2257.8	2241.7	2221.2	2162.7
15°	2249.0	2219.8	2244.6	2292.9	2282.7	2290.0	2291.5	2285.6	2278.3	2240.2	2202.2
17.5°	2253.4	2235.9	2288.5	2298.8	2311.9	2338.3	2320.7	2319.3	2291.5	2265.1	2209.5
20°	2263.7	2256.3	2298.8	2352.9	2354.4	2358.8	2367.5	2345.6	2331.0	2285.6	2200.7
22.5°	2301.7	2326.6	2366.1	2389.5	2402.7	2405.6	2405.6	2361.7	2345.6	2309.0	2241.7
25°	2415.8	2389.5	2445.1	2472.9	2453.9	2449.5	2439.2	2399.7	2382.2	2350.0	2260.7
27.5°	2499.2	2497.8	2530.0	2568.0	2516.8	2527.0	2490.5	2478.8	2439.2	2421.7	2294.4
30°	2613.4	2645.6	2644.1	2655.8	2588.5	2600.2	2553.4	2531.4	2509.5	2519.7	2393.9
32.5°	2759.7	2748.0	2767.0	2758.2	2690.9	2701.2	2645.6	2611.9	2619.2	2650.0	2530.0
35°	2853.3	2841.6	2849.0	2849.0	2828.5	2816.8	2793.3	2749.5	2784.6	2841.6	2682.1
37.5°	2954.3	2968.9	3011.4	3002.6	2976.3	2976.3	2973.3	2942.6	2988.0	3128.4	2925.0
40°	3043.6	3083.1	3109.4	3127.0	3157.7	3157.7	3182.6	3165.0	3247.0	3472.3	3222.1
42.5°	3137.2	3138.7	3282.1	3295.2	3364.0	3393.3	3412.3	3426.9	3580.6	3832.3	3539.6
45°	3257.2	3264.5	3390.4	3491.3	3598.1	3608.4	3680.1	3728.4	3917.1	4225.9	3884.9
47.5°	3415.2	3406.5	3541.1	3702.0	3835.2	3905.4	3991.8	4044.4	4277.1	4653.1	4262.5
50°	3623.0	3596.7	3674.2	3927.4	4083.9	4161.5	4315.1	4402.9	4675.1	5061.4	4521.5
52.5°	3876.2	3832.3	3893.7	4170.3	4345.9	4502.4	4648.8	4746.8	5030.7	5377.5	4713.1
55°	4143.9	4053.2	4070.8	4427.8	4680.9	4828.7	5029.2	5131.6	5421.4	5661.3	4904.8
57.5°	4408.8	4351.7	4316.6	4675.1	5080.4	5222.3	5406.7	5539.9	5785.7	5913.0	5067.2
60°	4631.2	4616.6	4559.5	5058.5	5503.3	5624.7	5817.9	5899.8	6085.7	6145.7	5070.2
62.5°	4814.1	4764.4	4855.1	5367.2	5933.5	6071.0	6283.2	6290.5	6422.2	6290.5	4920.9
65°	4957.5	4960.4	5105.3	5740.3	6431.0	6634.4	6805.6	6786.6	6701.7	6204.2	4568.3
67.5°	5087.7	5143.3	5355.5	6150.1	7070.4	7262.1	7452.3	7200.7	6777.8	5800.3	3879.1
70°	5190.2	5245.8	5693.5	6649.0	7824.0	8105.0	8147.4	7364.6	6428.1	4913.6	2926.5
72.5°	5178.5	5279.4	5885.2	7047.0	8492.7	8735.6	8393.2	6903.6	5355.5	3425.5	1707.6
73°	5203.3	5253.1	5869.1	7158.2	8696.1	8817.6	8279.1	6758.8	5051.1	3072.8	1444.2
75°	4723.4	4891.7	5577.9	6976.8	8478.1	8456.1	7623.5	5632.1	3590.8	1614.0	699.4
77.5°	3494.2	3601.1	4395.6	5737.4	6959.2	6818.8	5750.6	3599.6	1704.7	598.5	377.5
80°	1707.6	1791.0	2329.5	3312.8	4550.7	4562.4	3568.9	1873.0	730.2	338.0	257.5
82.5°	853.1	902.8	1119.4	1455.9	2238.8	2345.6	1810.0	1065.2	452.1	191.7	146.3
85°	557.5	592.6	689.2	712.6	949.7	1002.3	842.8	831.1	294.1	103.9	118.5
87.5°	370.2	376.1	422.9	360.0	380.4	365.8	406.8	523.8	86.3	43.9	32.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481043
 CATALOG NUMBER: IFLD-S-SA3B-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2328.0	2328.0	2328.0	2328.0	2328.0	2328.0	2328.0	2328.0	2328.0	2328.0	2328.0
2.5°	2320.7	2300.2	2278.3	2247.6	2225.6	2192.0	2161.2	2148.1	2145.1	2146.6	2132.0
5°	2260.7	2231.5	2187.6	2124.6	2088.1	2032.5	1985.6	1960.8	1934.4	1938.8	1927.1
7.5°	2177.3	2145.1	2077.8	2004.7	1913.9	1834.9	1791.0	1729.6	1694.4	1668.1	1682.7
10°	2151.0	2095.4	1994.4	1893.4	1753.0	1649.1	1548.1	1477.9	1429.6	1382.8	1403.3
12.5°	2137.8	2082.2	1941.7	1792.5	1611.0	1453.0	1311.1	1224.7	1156.0	1115.0	1131.1
15°	2126.1	2057.3	1892.0	1681.3	1477.9	1270.1	1110.6	996.5	930.6	891.1	895.5
17.5°	2142.2	2044.2	1818.8	1573.0	1331.6	1109.1	932.1	813.6	746.3	721.4	715.5
20°	2126.1	2029.5	1747.1	1464.7	1185.2	955.5	785.8	687.7	640.9	620.4	616.0
22.5°	2132.0	1994.4	1672.5	1344.7	1049.2	826.7	687.7	613.1	576.5	566.3	569.2
25°	2159.8	1973.9	1597.9	1213.0	914.5	731.6	624.8	567.7	541.4	531.2	534.1
27.5°	2180.2	1991.5	1530.6	1088.7	800.4	646.8	572.1	534.1	516.5	509.2	507.7
30°	2231.5	2001.7	1464.7	977.5	706.8	591.2	535.6	504.8	493.1	488.7	487.3
32.5°	2307.5	2020.8	1388.6	875.0	638.0	538.5	506.3	479.9	477.0	472.6	474.1
35°	2431.9	2086.6	1303.8	787.2	572.1	503.4	475.6	458.0	458.0	458.0	462.4
37.5°	2610.4	2178.8	1227.7	703.8	529.7	472.6	449.2	443.4	440.4	444.8	447.8
40°	2840.2	2290.0	1166.2	638.0	493.1	452.1	431.7	428.7	427.3	425.8	428.7
42.5°	3091.9	2431.9	1113.5	586.8	466.8	430.2	415.6	412.6	406.8	409.7	414.1
45°	3342.1	2607.5	1066.7	545.8	449.2	418.5	398.0	396.5	393.6	392.2	399.5
47.5°	3620.1	2780.2	1052.1	520.9	436.0	400.9	386.3	384.8	376.1	374.6	380.4
50°	3836.6	2907.5	1068.2	509.2	417.0	387.8	377.5	370.2	362.9	355.6	355.6
52.5°	3985.9	2995.3	1079.9	500.4	406.8	370.2	357.0	354.1	346.8	339.5	336.5
55°	4120.5	3048.0	1082.8	501.9	396.5	349.7	340.9	339.5	335.1	323.4	320.5
57.5°	4165.9	3026.0	1024.3	488.7	390.7	336.5	324.8	327.8	321.9	311.7	310.2
60°	4161.5	2873.8	891.1	471.2	377.5	321.9	307.3	316.1	316.1	304.4	302.9
62.5°	3908.3	2522.6	728.7	437.5	362.9	307.3	291.2	304.4	308.7	301.4	300.0
65°	3383.0	2054.4	608.7	403.9	340.9	291.2	275.1	289.7	297.0	294.1	292.7
67.5°	2799.2	1571.5	506.3	360.0	313.1	269.2	256.1	266.3	270.7	272.2	273.6
70°	1978.3	1046.2	422.9	311.7	275.1	245.8	231.2	232.7	231.2	235.6	235.6
72.5°	1075.5	602.9	343.9	264.8	237.0	213.6	203.4	196.1	196.1	194.6	194.6
73°	920.4	541.4	327.8	257.5	226.8	207.8	196.1	190.2	190.2	188.8	187.3
75°	516.5	396.5	280.9	221.0	196.1	181.4	172.7	163.9	162.4	162.4	162.4
77.5°	339.5	308.7	223.9	177.1	158.0	144.9	141.9	133.2	133.2	133.2	131.7
80°	254.6	242.9	172.7	134.6	121.4	111.2	108.3	102.4	101.0	95.1	96.6
82.5°	169.7	191.7	125.8	95.1	81.9	76.1	76.1	74.6	70.2	62.9	62.9
85°	134.6	156.6	90.7	58.5	48.3	41.0	42.4	41.0	39.5	32.2	30.7
87.5°	24.9	62.9	26.3	16.1	11.7	7.3	7.3	4.4	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)