

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: P484783

Luminaire Tested: **IFLD-S-SA2C-740-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484783
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

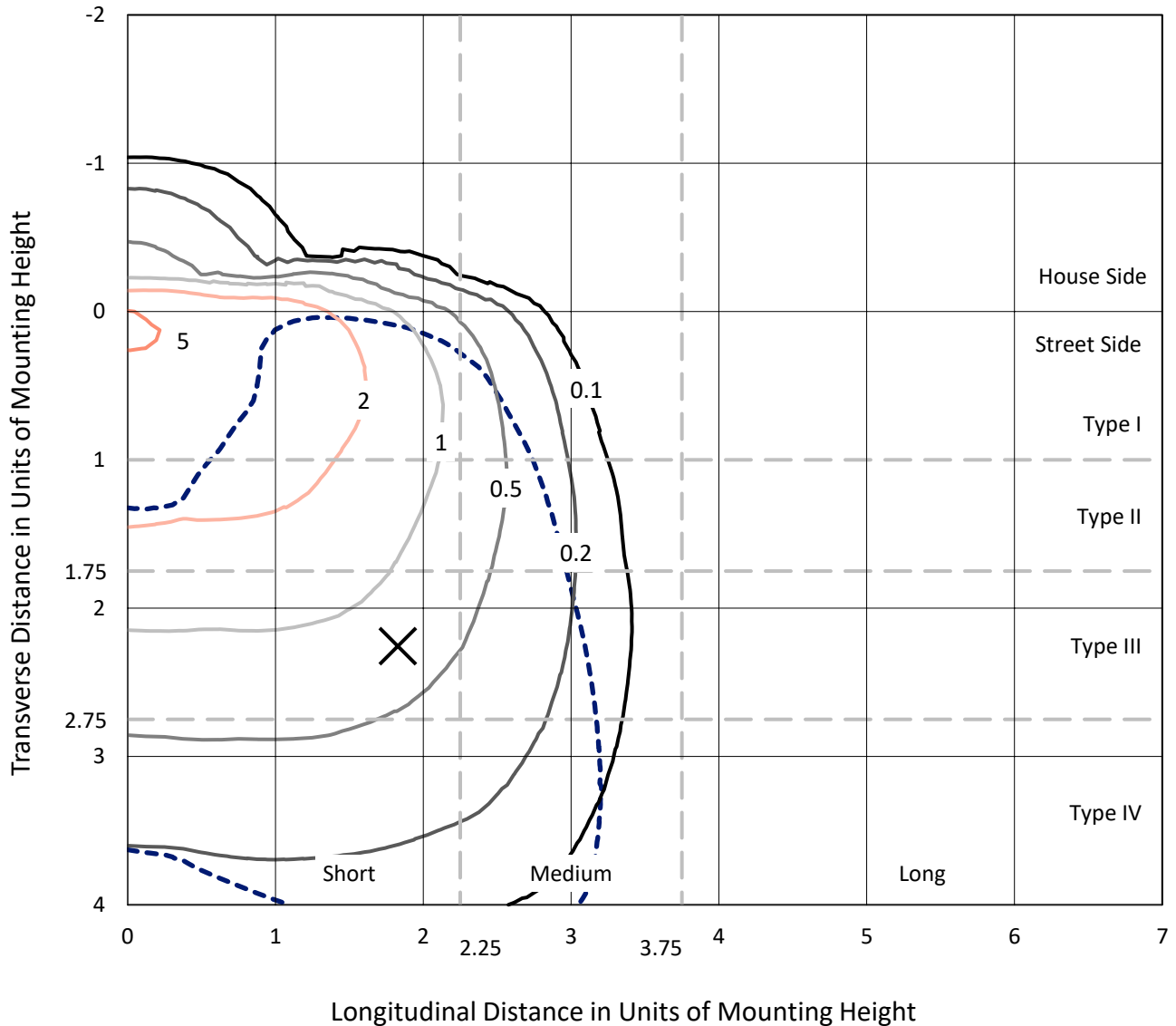
Lumens per Lamp: N/A
Luminaire Lumens: 11741.9 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 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

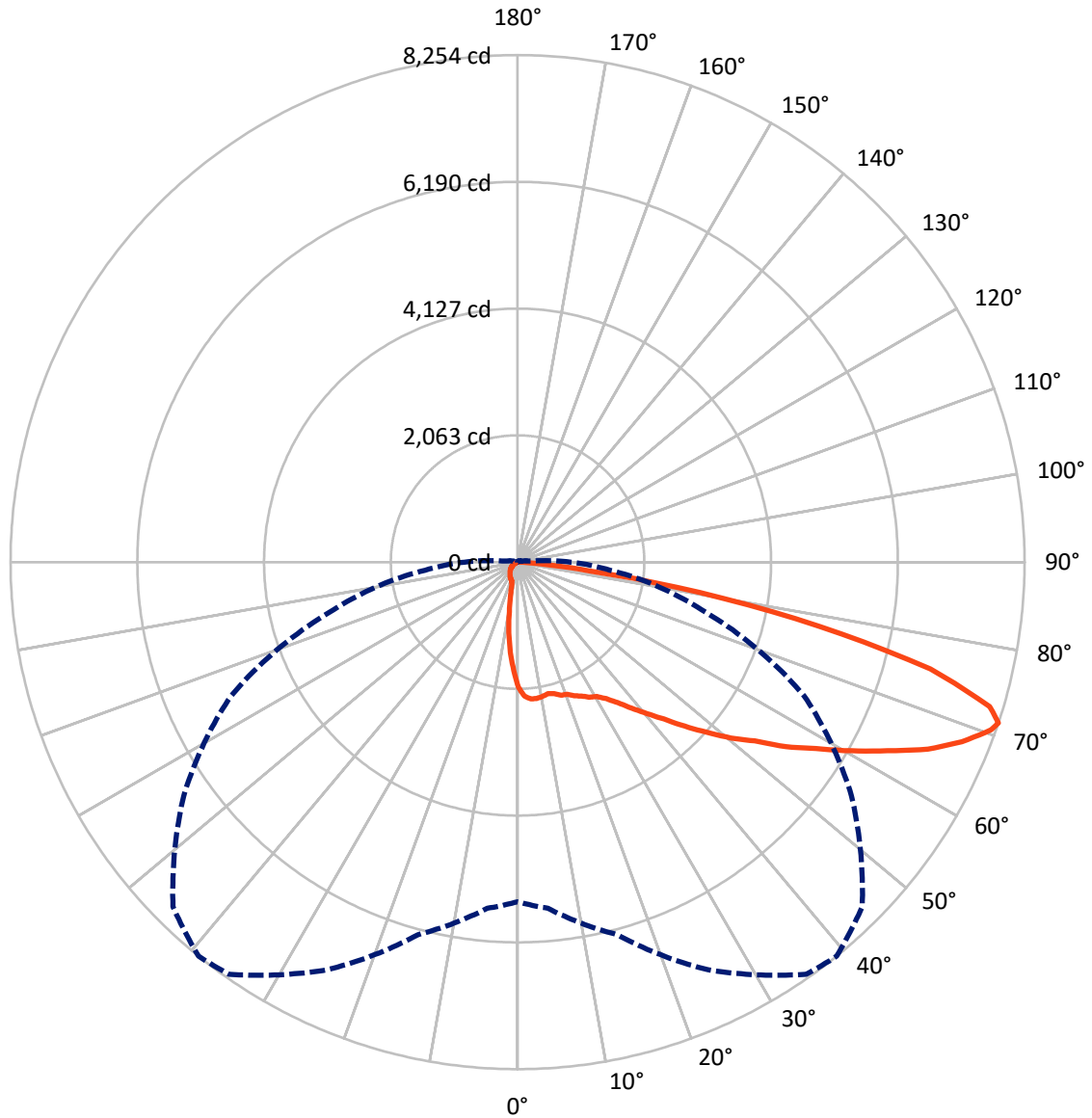
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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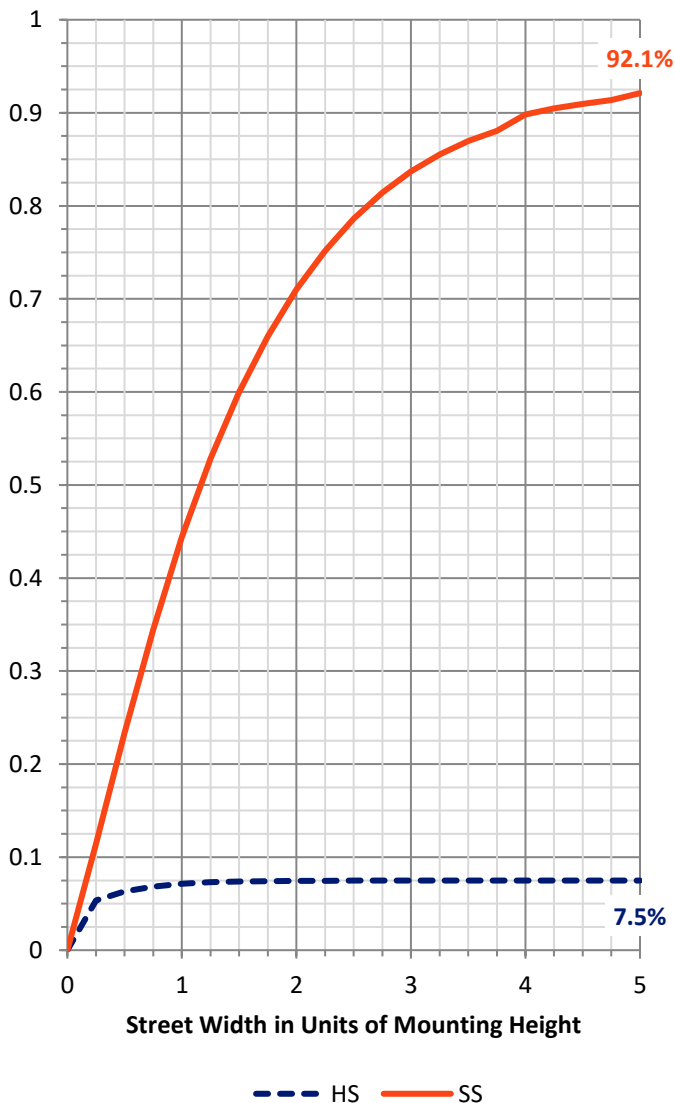
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	884.0	0.0	884.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	10858.0	0.0	10858.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	11741.9	0.0	11741.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	1.5
10°-20°	420.6	3.6
20°-30°	675.2	5.8
30°-40°	1033.5	8.8
40°-50°	1659.0	14.1
50°-60°	2436.8	20.8
60°-70°	3069.0	26.1
70°-80°	2048.2	17.4
80°-90°	228.9	1.9
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°	11741.9	100.0
0°-180°	11741.9	100.0



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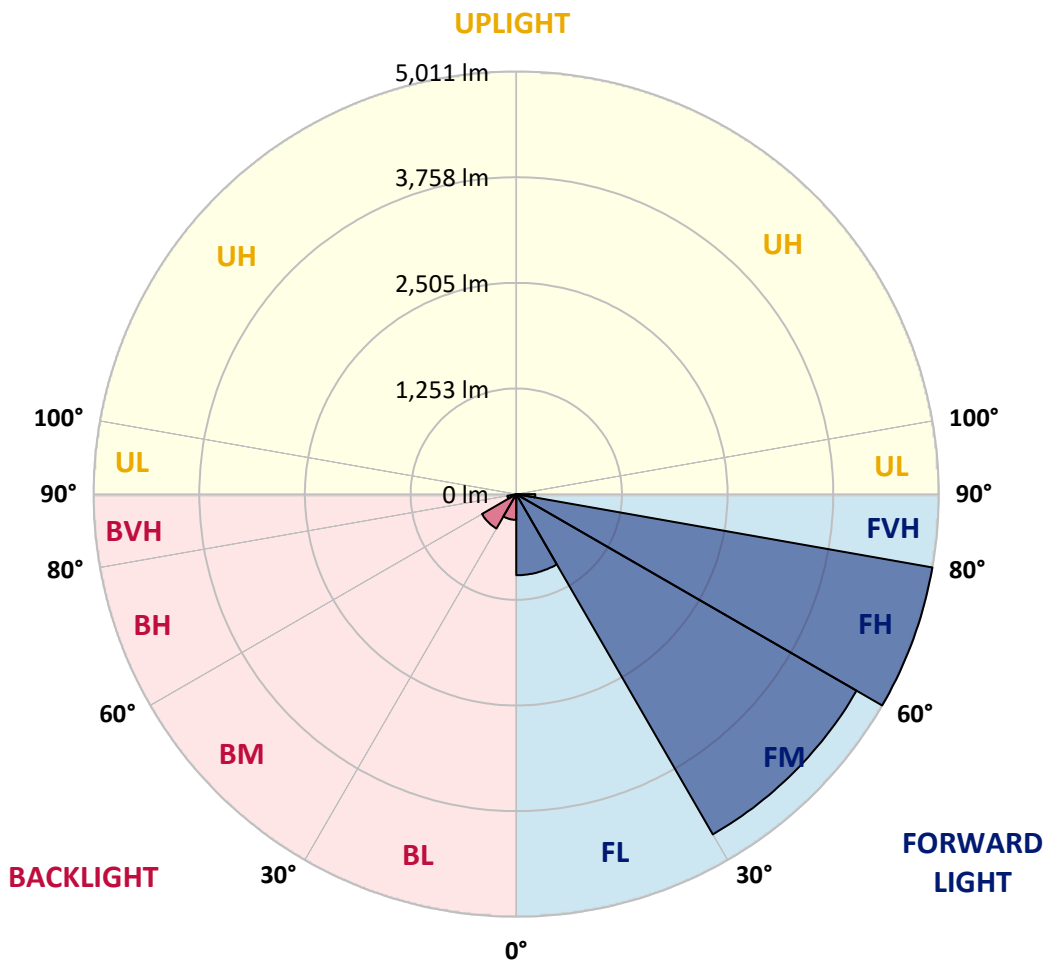
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	961.4	8.2			
FM (30°-60°)	4659.4	39.7			
FH (60°-80°)	5010.8	42.7			G3/7500
FVH (80°-90°)	226.4	1.9			G3/500
BL (0°-30°)	305.2	2.6	B1/500		
BM (30°-60°)	469.9	4.0	B1/1000		
BH (60°-80°)	106.4	0.9	B0/110		G0/110
BVH (80°-90°)	2.5	0.0			G0/10
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°	2043.8	2043.8	2043.8	2043.8	2043.8	2043.8	2043.8	2043.8	2043.8	2043.8	2043.8
2.5°	2202.4	2224.0	2202.4	2193.2	2183.9	2185.5	2160.8	2165.4	2136.2	2097.7	2066.9
5°	2271.7	2301.0	2277.9	2267.1	2265.5	2236.3	2224.0	2194.7	2159.3	2099.2	2062.2
7.5°	2265.5	2259.4	2270.2	2260.9	2240.9	2240.9	2227.0	2185.5	2150.0	2082.3	2019.1
10°	2219.3	2237.8	2228.6	2217.8	2222.4	2224.0	2197.8	2168.5	2157.7	2090.0	1986.8
12.5°	2214.7	2183.9	2217.8	2219.3	2199.3	2197.8	2194.7	2187.0	2153.1	2091.5	1994.5
15°	2199.3	2187.0	2220.9	2222.4	2227.0	2222.4	2227.0	2220.9	2187.0	2151.6	2028.4
17.5°	2211.6	2197.8	2245.5	2268.6	2257.8	2279.4	2271.7	2244.0	2214.7	2173.1	2060.7
20°	2214.7	2234.7	2287.1	2296.3	2330.2	2294.8	2293.3	2264.0	2245.5	2200.9	2080.7
22.5°	2271.7	2280.9	2345.6	2365.6	2367.2	2362.6	2324.1	2290.2	2282.5	2227.0	2085.3
25°	2357.9	2390.3	2419.6	2431.9	2436.5	2414.9	2374.9	2331.8	2313.3	2277.9	2133.1
27.5°	2510.4	2490.4	2516.6	2535.1	2482.7	2490.4	2439.6	2402.6	2376.4	2345.6	2188.5
30°	2646.0	2627.5	2629.0	2625.9	2581.3	2539.7	2525.8	2461.1	2428.8	2441.1	2274.8
32.5°	2767.6	2727.6	2761.5	2746.1	2662.9	2650.6	2639.8	2558.2	2564.3	2621.3	2404.2
35°	2880.1	2866.2	2893.9	2866.2	2810.7	2807.7	2796.9	2726.0	2759.9	2841.5	2625.9
37.5°	2983.2	2987.9	3021.7	3007.9	3012.5	3015.6	3009.4	2934.0	3031.0	3214.3	2884.7
40°	3078.7	3072.6	3155.7	3198.9	3208.1	3242.0	3242.0	3223.5	3372.9	3579.3	3243.5
42.5°	3180.4	3195.8	3303.6	3376.0	3463.8	3493.0	3533.1	3542.3	3773.3	4009.0	3610.1
45°	3346.7	3320.5	3457.6	3628.6	3705.6	3808.8	3870.4	3922.7	4201.5	4524.9	3976.6
47.5°	3557.7	3505.3	3625.5	3873.4	4052.1	4136.8	4247.7	4317.0	4589.6	4923.8	4323.2
50°	3791.8	3737.9	3796.4	4138.3	4346.3	4500.3	4642.0	4729.8	5059.3	5370.5	4575.7
52.5°	4056.7	4007.4	4016.7	4414.0	4720.5	4832.9	5019.3	5150.2	5478.3	5640.0	4665.1
55°	4338.6	4326.2	4297.0	4683.6	5048.6	5301.1	5413.6	5570.7	5908.0	5786.3	4762.1
57.5°	4621.9	4583.4	4625.0	5040.9	5575.3	5726.2	5881.8	5975.7	6146.7	5914.1	4725.1
60°	4888.4	4891.5	4950.0	5429.0	6023.5	6237.5	6377.7	6320.7	6391.6	5969.6	4640.4
62.5°	5113.2	5107.1	5254.9	5864.8	6616.4	6761.2	6865.9	6611.8	6505.5	6023.5	4492.6
65°	5315.0	5384.3	5616.9	6383.9	7173.9	7340.3	7277.1	6887.5	6616.4	5864.8	4076.7
67.5°	5467.5	5570.7	5974.2	6872.1	7685.3	7802.3	7714.5	7096.9	6485.5	5242.6	3320.5
70°	5556.8	5661.5	6229.8	7278.7	8093.4	8178.1	7971.7	6935.2	5721.6	3796.4	2071.5
71°	5529.1	5656.9	6279.1	7321.8	8190.4	8253.6	7933.2	6636.4	5145.6	3178.8	1510.9
72.5°	5278.0	5398.2	6074.3	7291.0	8073.4	8034.9	7632.9	5918.7	4050.6	2026.8	780.8
75°	3878.1	4007.4	5213.4	6306.9	7206.3	6941.4	6177.5	4153.7	2113.1	620.7	227.9
77.5°	1931.3	1952.9	3235.8	4578.8	5285.7	5022.4	4139.9	2316.4	790.1	183.3	114.0
80°	890.2	896.4	1213.6	2371.8	3195.8	3007.9	2319.4	1142.8	357.3	97.0	89.3
82.5°	606.8	616.1	731.6	982.6	1387.7	1170.5	939.5	731.6	204.8	58.5	87.8
85°	110.9	101.6	409.7	520.6	536.0	363.5	325.0	633.0	77.0	33.9	77.0
87.5°	0.0	1.5	57.0	212.5	191.0	84.7	110.9	154.0	7.7	10.8	13.9
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°	2043.8	2043.8	2043.8	2043.8	2043.8	2043.8	2043.8	2043.8	2043.8	2043.8	2043.8
2.5°	2040.7	2023.7	1966.8	1903.6	1846.6	1802.0	1745.0	1718.8	1677.2	1654.1	1652.6
5°	2011.4	1965.2	1866.6	1760.4	1641.8	1543.2	1433.9	1372.3	1301.4	1279.9	1275.2
7.5°	1962.1	1895.9	1751.1	1601.7	1420.0	1246.0	1112.0	968.7	881.0	844.0	830.1
10°	1931.3	1851.2	1654.1	1430.8	1176.7	931.8	743.9	591.4	511.3	472.8	463.6
12.5°	1931.3	1845.1	1575.6	1267.5	930.2	637.6	460.5	372.7	346.5	337.3	337.3
15°	1926.7	1832.8	1500.1	1099.7	688.4	428.2	343.5	325.0	321.9	320.3	318.8
17.5°	1949.8	1811.2	1423.1	919.5	486.7	337.3	315.7	312.6	309.6	309.6	306.5
20°	1966.8	1798.9	1330.7	728.5	363.5	312.6	303.4	298.8	297.2	295.7	298.8
22.5°	1952.9	1780.4	1216.7	545.2	317.3	297.2	291.1	286.5	283.4	283.4	284.9
25°	1979.1	1763.5	1102.7	411.2	297.2	283.4	277.2	274.1	272.6	271.1	268.0
27.5°	2014.5	1771.2	967.2	331.1	280.3	269.5	263.4	260.3	258.7	255.7	258.7
30°	2057.6	1769.6	817.8	289.5	264.9	254.1	248.0	246.4	243.3	241.8	243.3
32.5°	2131.5	1809.7	663.8	268.0	248.0	238.7	232.6	231.0	229.5	227.9	226.4
35°	2290.2	1858.9	519.0	251.0	232.6	221.8	217.2	214.1	212.5	211.0	209.5
37.5°	2485.8	1968.3	395.8	235.6	217.2	206.4	201.8	200.2	194.1	192.5	191.0
40°	2730.7	2085.3	304.9	218.7	203.3	192.5	187.9	183.3	175.6	172.5	169.4
42.5°	3035.6	2199.3	251.0	203.3	187.9	180.2	172.5	164.8	158.6	152.5	149.4
45°	3340.6	2331.8	220.2	189.4	175.6	166.3	160.2	149.4	138.6	129.4	127.8
47.5°	3594.7	2379.5	201.8	174.0	163.3	155.6	146.3	132.5	117.1	107.8	106.3
50°	3784.1	2351.8	183.3	158.6	149.4	141.7	129.4	112.4	97.0	87.8	84.7
52.5°	3821.1	2230.1	166.3	146.3	135.5	126.3	112.4	93.9	77.0	67.8	66.2
55°	3794.9	2028.4	152.5	135.5	123.2	109.3	93.9	75.5	60.1	50.8	49.3
57.5°	3741.0	1789.6	137.1	121.7	107.8	93.9	77.0	61.6	44.7	35.4	35.4
60°	3557.7	1464.7	121.7	106.3	92.4	80.1	63.1	44.7	30.8	23.1	21.6
62.5°	3302.0	1125.8	106.3	90.9	80.1	66.2	49.3	32.3	18.5	12.3	12.3
65°	2835.4	788.5	89.3	75.5	66.2	53.9	37.0	20.0	10.8	4.6	4.6
67.5°	2154.6	488.2	73.9	63.1	57.0	43.1	26.2	12.3	4.6	1.5	0.0
70°	1236.7	254.1	58.5	50.8	44.7	32.3	18.5	6.2	3.1	0.0	0.0
71°	864.0	187.9	52.4	44.7	40.0	29.3	15.4	4.6	1.5	0.0	0.0
72.5°	432.8	124.8	44.7	37.0	32.3	23.1	12.3	4.6	1.5	0.0	0.0
75°	154.0	80.1	30.8	24.6	23.1	16.9	7.7	3.1	1.5	0.0	0.0
77.5°	106.3	64.7	21.6	15.4	15.4	10.8	4.6	1.5	1.5	0.0	0.0
80°	97.0	35.4	13.9	9.2	7.7	6.2	3.1	1.5	0.0	0.0	0.0
82.5°	97.0	26.2	7.7	6.2	4.6	3.1	1.5	0.0	0.0	0.0	0.0
85°	67.8	13.9	4.6	4.6	3.1	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	10.8	4.6	3.1	1.5	1.5	0.0	0.0	0.0	0.0	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)