

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: P484786

Luminaire Tested: **IFLD-S-SA3A-740-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484786
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-740-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

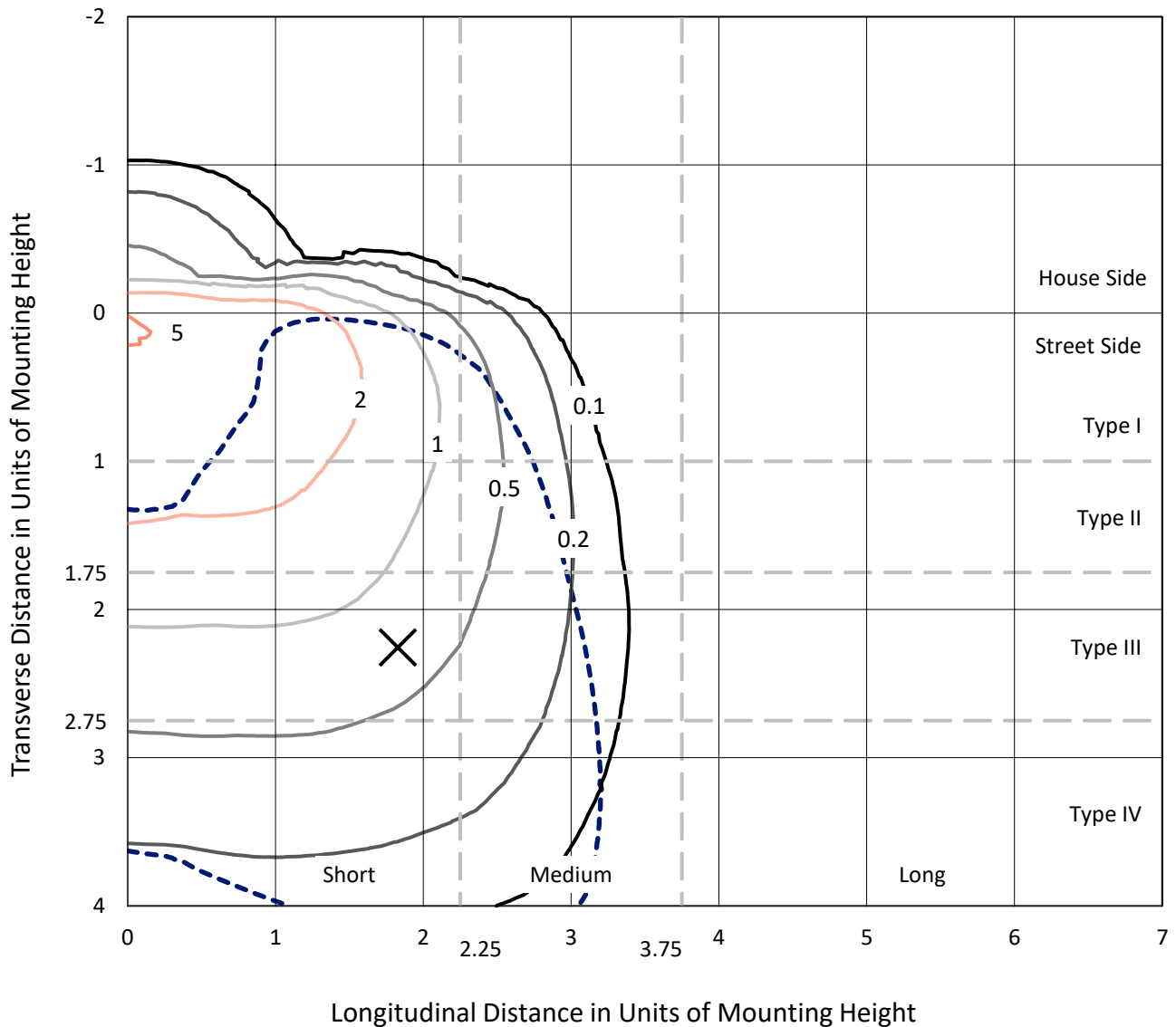
Lumens per Lamp: N/A
Luminaire Lumens: 11366.2 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

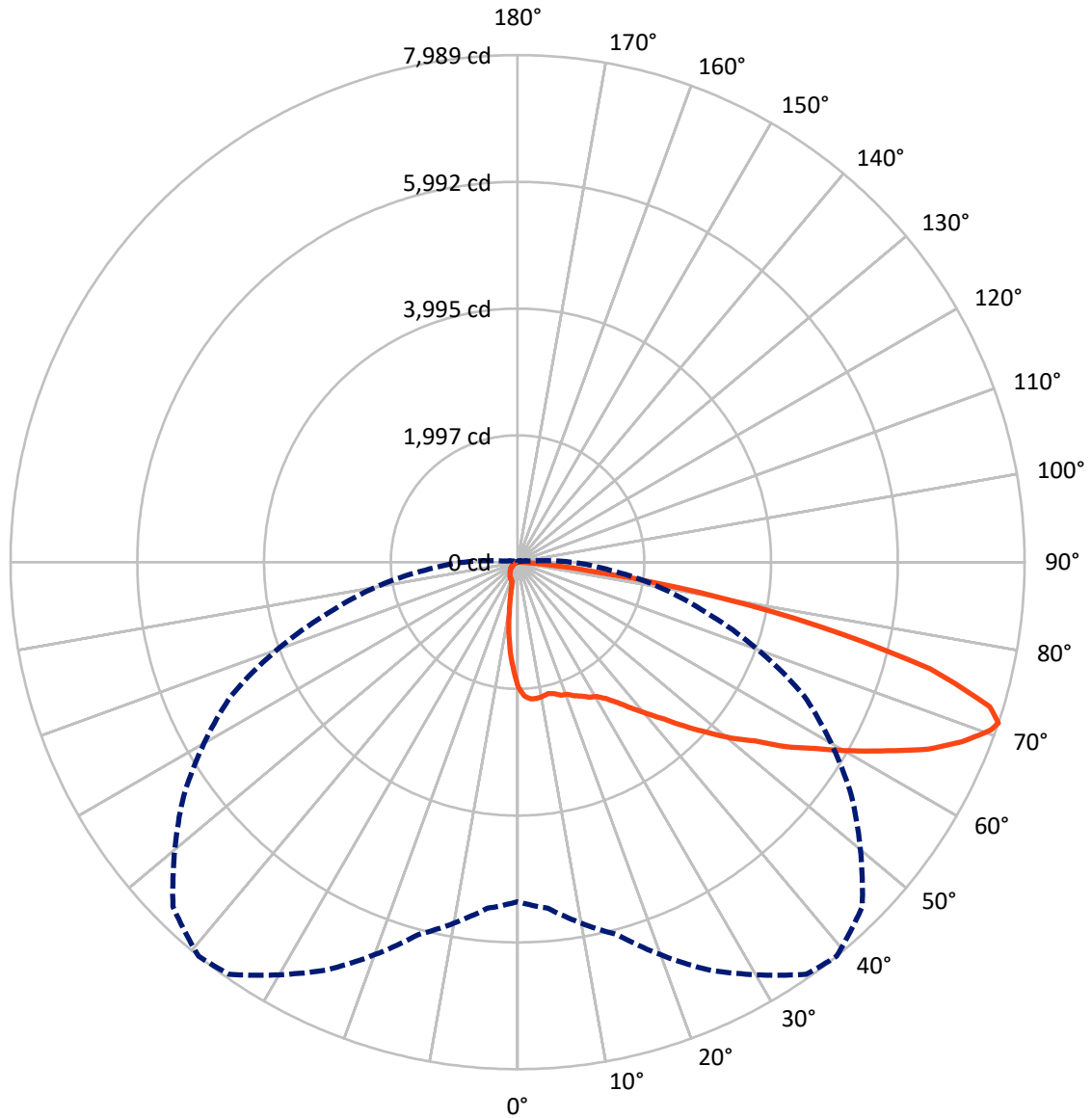
× Max cd
 - - - 1/2 Max cd



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 71-Deg Vertical

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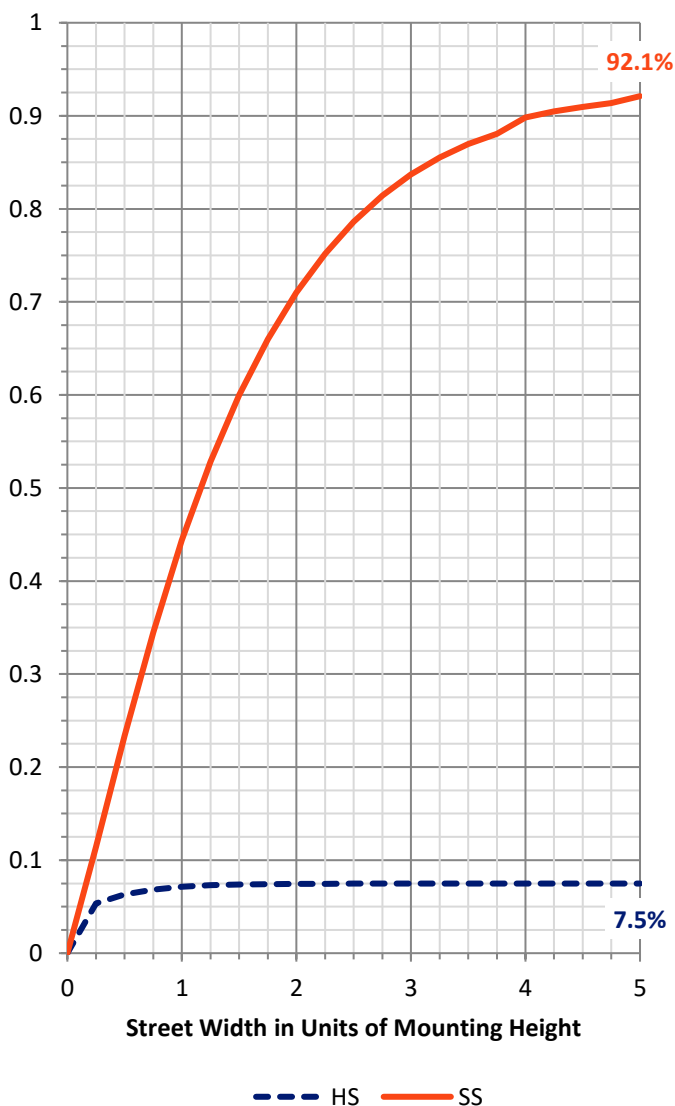
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	855.7	0.0	855.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	10510.5	0.0	10510.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	11366.2	0.0	11366.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.4	1.5
10°-20°	407.1	3.6
20°-30°	653.6	5.8
30°-40°	1000.4	8.8
40°-50°	1605.9	14.1
50°-60°	2358.8	20.8
60°-70°	2970.8	26.1
70°-80°	1982.6	17.4
80°-90°	221.6	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°	11366.2	100.0
0°-180°	11366.2	100.0

Coefficient of Utilization



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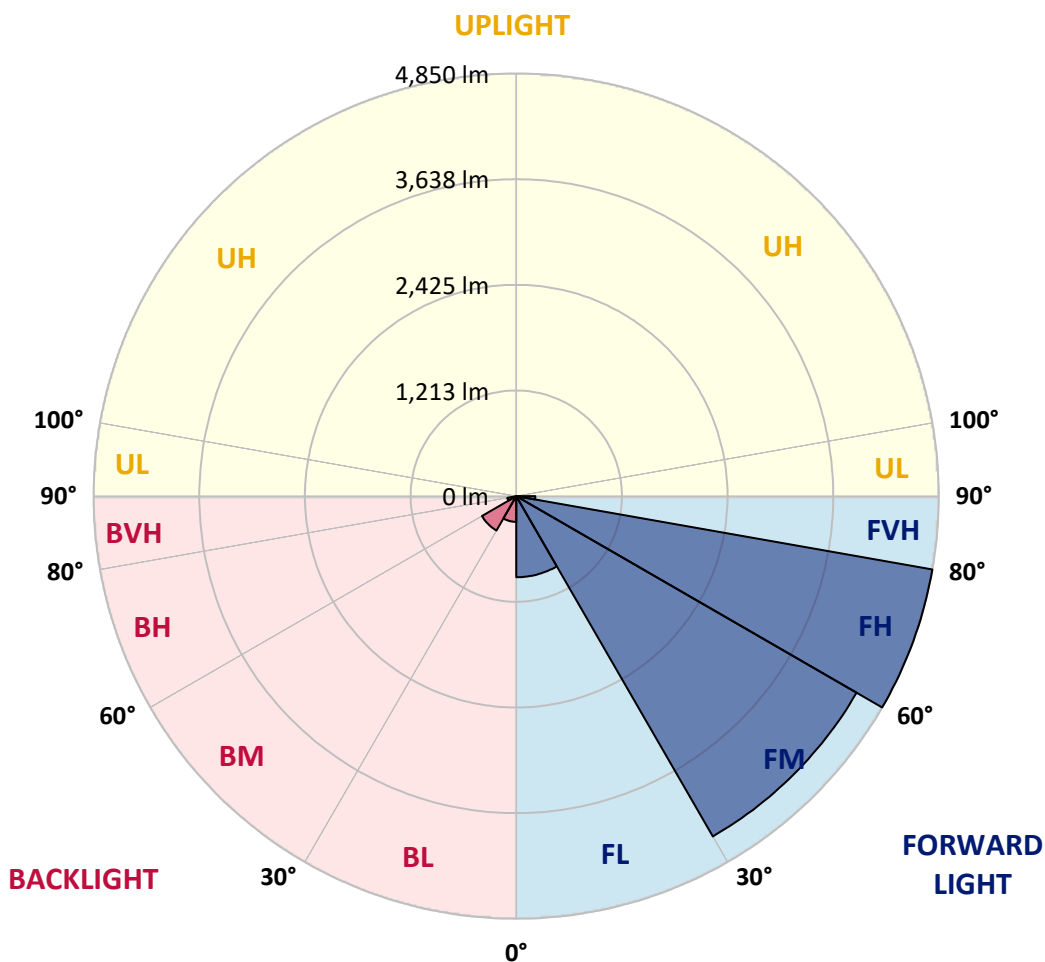
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	930.6	8.2			
FM (30°-60°)	4510.3	39.7			
FH (60°-80°)	4850.4	42.7			G2/5000
FVH (80°-90°)	219.1	1.9			G2/225
BL (0°-30°)	295.4	2.6	B1/500		
BM (30°-60°)	454.8	4.0	B1/1000		
BH (60°-80°)	103.0	0.9	B0/110		G0/110
BVH (80°-90°)	2.4	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4
2.5°	2131.9	2152.8	2131.9	2123.0	2114.0	2115.5	2091.7	2096.1	2067.8	2030.5	2000.7
5°	2199.0	2227.3	2205.0	2194.5	2193.0	2164.7	2152.8	2124.5	2090.2	2032.0	1996.2
7.5°	2193.0	2187.1	2197.5	2188.6	2169.2	2169.2	2155.8	2115.5	2081.2	2015.6	1954.5
10°	2148.3	2166.2	2157.3	2146.8	2151.3	2152.8	2127.4	2099.1	2088.7	2023.1	1923.2
12.5°	2143.8	2114.0	2146.8	2148.3	2128.9	2127.4	2124.5	2117.0	2084.2	2024.6	1930.6
15°	2128.9	2117.0	2149.8	2151.3	2155.8	2151.3	2155.8	2149.8	2117.0	2082.7	1963.4
17.5°	2140.9	2127.4	2173.7	2196.0	2185.6	2206.5	2199.0	2172.2	2143.8	2103.6	1994.8
20°	2143.8	2163.2	2213.9	2222.9	2255.6	2221.4	2219.9	2191.5	2173.7	2130.4	2014.1
22.5°	2199.0	2207.9	2270.6	2289.9	2291.4	2287.0	2249.7	2216.9	2209.4	2155.8	2018.6
25°	2282.5	2313.8	2342.1	2354.0	2358.5	2337.6	2298.9	2257.1	2239.3	2205.0	2064.8
27.5°	2430.1	2410.7	2436.0	2453.9	2403.2	2410.7	2361.5	2325.7	2300.4	2270.6	2118.5
30°	2561.3	2543.4	2544.9	2541.9	2498.7	2458.4	2445.0	2382.4	2351.1	2363.0	2202.0
32.5°	2679.0	2640.3	2673.1	2658.2	2577.7	2565.7	2555.3	2476.3	2482.3	2537.4	2327.2
35°	2787.9	2774.5	2801.3	2774.5	2720.8	2717.8	2707.4	2638.8	2671.6	2750.6	2541.9
37.5°	2887.8	2892.2	2925.0	2911.6	2916.1	2919.1	2913.1	2840.1	2934.0	3111.4	2792.4
40°	2980.2	2974.2	3054.7	3096.5	3105.4	3138.2	3138.2	3120.3	3265.0	3464.7	3139.7
42.5°	3078.6	3093.5	3197.9	3267.9	3352.9	3381.2	3420.0	3428.9	3652.6	3880.7	3494.5
45°	3239.6	3214.3	3346.9	3512.4	3587.0	3686.9	3746.5	3797.2	4067.0	4380.1	3849.4
47.5°	3443.9	3393.2	3509.5	3749.5	3922.4	4004.4	4111.8	4178.8	4442.7	4766.2	4184.8
50°	3670.5	3618.3	3674.9	4005.9	4207.2	4356.3	4493.4	4578.4	4897.4	5198.6	4429.3
52.5°	3926.9	3879.2	3888.1	4272.8	4569.4	4678.3	4858.7	4985.4	5302.9	5459.5	4515.8
55°	4199.7	4187.8	4159.5	4533.7	4887.0	5131.5	5240.3	5392.4	5718.9	5601.1	4609.7
57.5°	4474.0	4436.8	4477.0	4879.5	5396.9	5543.0	5693.5	5784.5	5950.0	5724.8	4573.9
60°	4731.9	4734.9	4791.6	5255.2	5830.7	6037.9	6173.6	6118.4	6187.0	5778.5	4491.9
62.5°	4949.6	4943.6	5086.8	5677.1	6404.7	6544.8	6646.2	6400.2	6297.3	5830.7	4348.8
65°	5144.9	5212.0	5437.1	6179.6	6944.4	7105.4	7044.2	6667.1	6404.7	5677.1	3946.3
67.5°	5292.5	5392.4	5783.0	6652.2	7439.3	7552.6	7467.6	6869.8	6278.0	5074.8	3214.3
70°	5379.0	5480.3	6030.5	7045.7	7834.4	7916.4	7716.6	6713.3	5538.5	3674.9	2005.2
71°	5352.1	5475.9	6078.2	7087.5	7928.3	7989.4	7679.3	6424.1	4980.9	3077.1	1462.5
72.5°	5109.1	5225.4	5879.9	7057.7	7815.0	7777.7	7388.6	5729.3	3920.9	1962.0	755.9
75°	3753.9	3879.2	5046.5	6105.0	6975.7	6719.2	5979.8	4020.8	2045.4	600.8	220.6
77.5°	1869.5	1890.4	3132.3	4432.3	5116.6	4861.6	4007.4	2242.2	764.8	177.4	110.3
80°	861.7	867.7	1174.8	2295.9	3093.5	2911.6	2245.2	1106.2	345.9	93.9	86.5
82.5°	587.4	596.3	708.2	951.2	1343.3	1133.0	909.4	708.2	198.3	56.7	85.0
85°	107.3	98.4	396.6	503.9	518.8	351.8	314.6	612.7	74.5	32.8	74.5
87.5°	0.0	1.5	55.2	205.7	184.9	82.0	107.3	149.1	7.5	10.4	13.4
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°	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4	1978.4
2.5°	1975.4	1959.0	1903.8	1842.7	1787.5	1744.3	1689.1	1663.8	1623.5	1601.2	1599.7
5°	1947.0	1902.3	1806.9	1704.0	1589.2	1493.8	1388.0	1328.3	1259.8	1238.9	1234.4
7.5°	1899.3	1835.2	1695.1	1550.5	1374.6	1206.1	1076.4	937.7	852.8	817.0	803.6
10°	1869.5	1792.0	1601.2	1385.0	1139.0	902.0	720.1	572.5	495.0	457.7	448.7
12.5°	1869.5	1786.0	1525.1	1227.0	900.5	617.2	445.8	360.8	335.4	326.5	326.5
15°	1865.0	1774.1	1452.1	1064.5	666.4	414.5	332.5	314.6	311.6	310.1	308.6
17.5°	1887.4	1753.2	1377.5	890.0	471.1	326.5	305.6	302.6	299.7	299.7	296.7
20°	1903.8	1741.3	1288.1	705.2	351.8	302.6	293.7	289.2	287.7	286.2	289.2
22.5°	1890.4	1723.4	1177.8	527.8	307.1	287.7	281.8	277.3	274.3	274.3	275.8
25°	1915.7	1707.0	1067.4	398.1	287.7	274.3	268.4	265.4	263.9	262.4	259.4
27.5°	1950.0	1714.5	936.3	320.5	271.3	260.9	254.9	252.0	250.5	247.5	250.5
30°	1991.8	1713.0	791.6	280.3	256.4	246.0	240.0	238.5	235.6	234.1	235.6
32.5°	2063.3	1751.7	642.6	259.4	240.0	231.1	225.1	223.6	222.1	220.6	219.2
35°	2216.9	1799.5	502.4	243.0	225.1	214.7	210.2	207.2	205.7	204.2	202.8
37.5°	2406.2	1905.3	383.1	228.1	210.2	199.8	195.3	193.8	187.8	186.4	184.9
40°	2643.3	2018.6	295.2	211.7	196.8	186.4	181.9	177.4	170.0	167.0	164.0
42.5°	2938.5	2128.9	243.0	196.8	181.9	174.4	167.0	159.5	153.6	147.6	144.6
45°	3233.6	2257.1	213.2	183.4	170.0	161.0	155.0	144.6	134.2	125.2	123.7
47.5°	3479.6	2303.4	195.3	168.5	158.0	150.6	141.6	128.2	113.3	104.4	102.9
50°	3663.0	2276.5	177.4	153.6	144.6	137.2	125.2	108.8	93.9	85.0	82.0
52.5°	3698.8	2158.7	161.0	141.6	131.2	122.2	108.8	90.9	74.5	65.6	64.1
55°	3673.4	1963.4	147.6	131.2	119.3	105.9	90.9	73.1	58.1	49.2	47.7
57.5°	3621.3	1732.4	132.7	117.8	104.4	90.9	74.5	59.6	43.2	34.3	34.3
60°	3443.9	1417.8	117.8	102.9	89.5	77.5	61.1	43.2	29.8	22.4	20.9
62.5°	3196.4	1089.8	102.9	88.0	77.5	64.1	47.7	31.3	17.9	11.9	11.9
65°	2744.6	763.3	86.5	73.1	64.1	52.2	35.8	19.4	10.4	4.5	4.5
67.5°	2085.7	472.6	71.6	61.1	55.2	41.7	25.3	11.9	4.5	1.5	0.0
70°	1197.1	246.0	56.7	49.2	43.2	31.3	17.9	6.0	3.0	0.0	0.0
71°	836.4	181.9	50.7	43.2	38.8	28.3	14.9	4.5	1.5	0.0	0.0
72.5°	418.9	120.8	43.2	35.8	31.3	22.4	11.9	4.5	1.5	0.0	0.0
75°	149.1	77.5	29.8	23.9	22.4	16.4	7.5	3.0	1.5	0.0	0.0
77.5°	102.9	62.6	20.9	14.9	14.9	10.4	4.5	1.5	1.5	0.0	0.0
80°	93.9	34.3	13.4	8.9	7.5	6.0	3.0	1.5	0.0	0.0	0.0
82.5°	93.9	25.3	7.5	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
85°	65.6	13.4	4.5	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	10.4	4.5	3.0	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)