

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: P483637

Luminaire Tested: **IFLD-M-SA4B-740-U-T4W-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483637
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

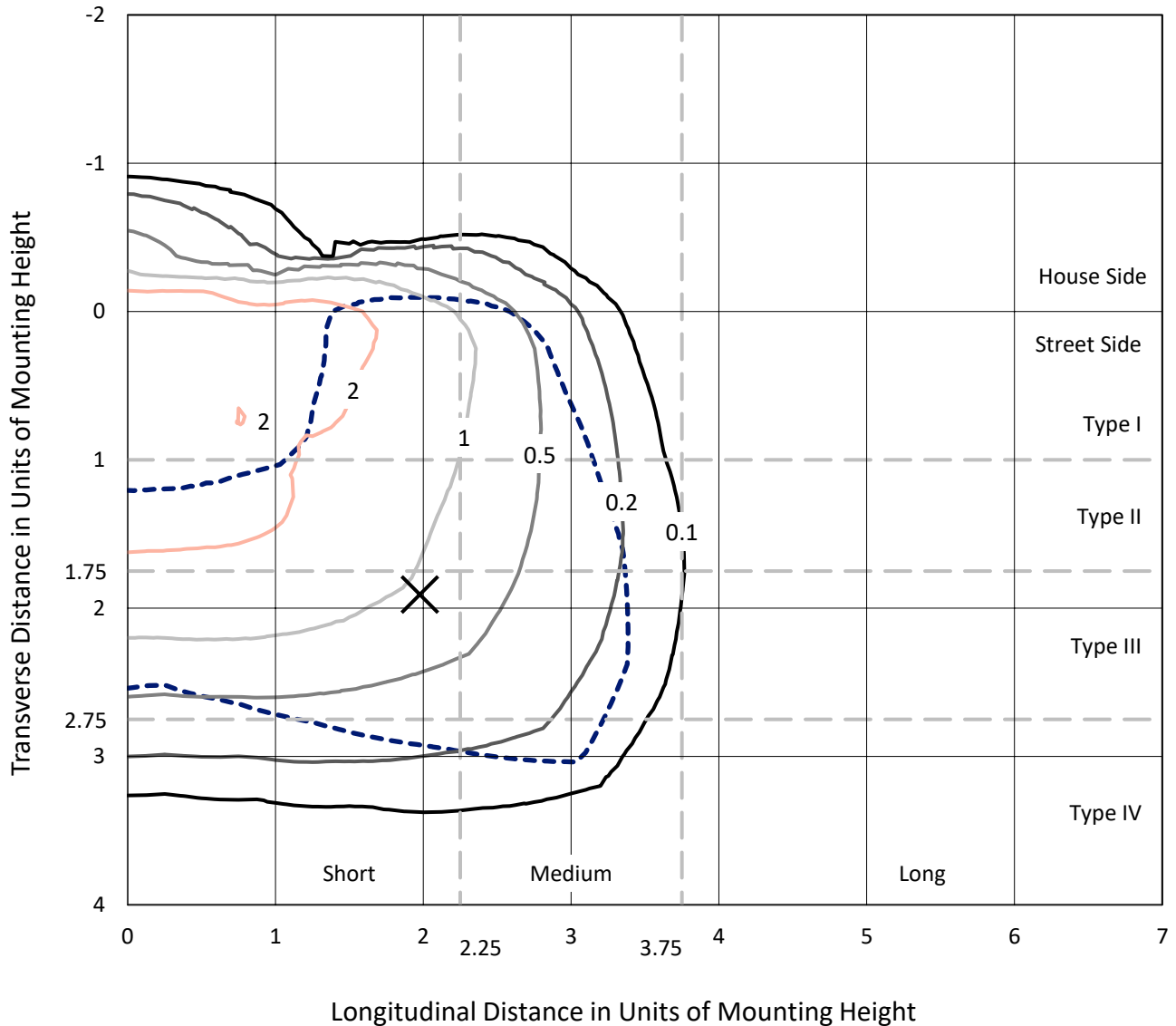
Lumens per Lamp: N/A
Luminaire Lumens: 16851.8 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 166.1
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

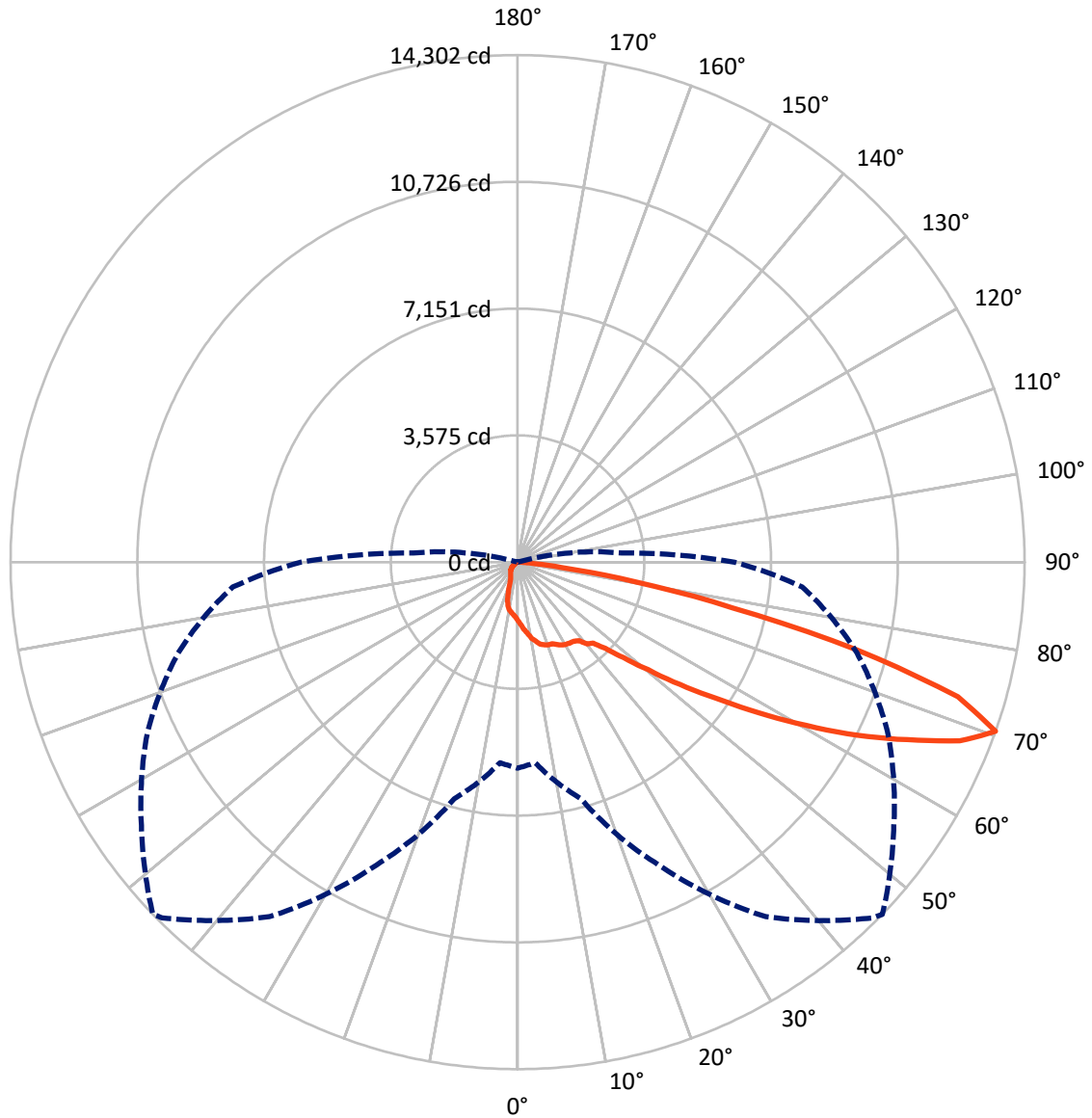
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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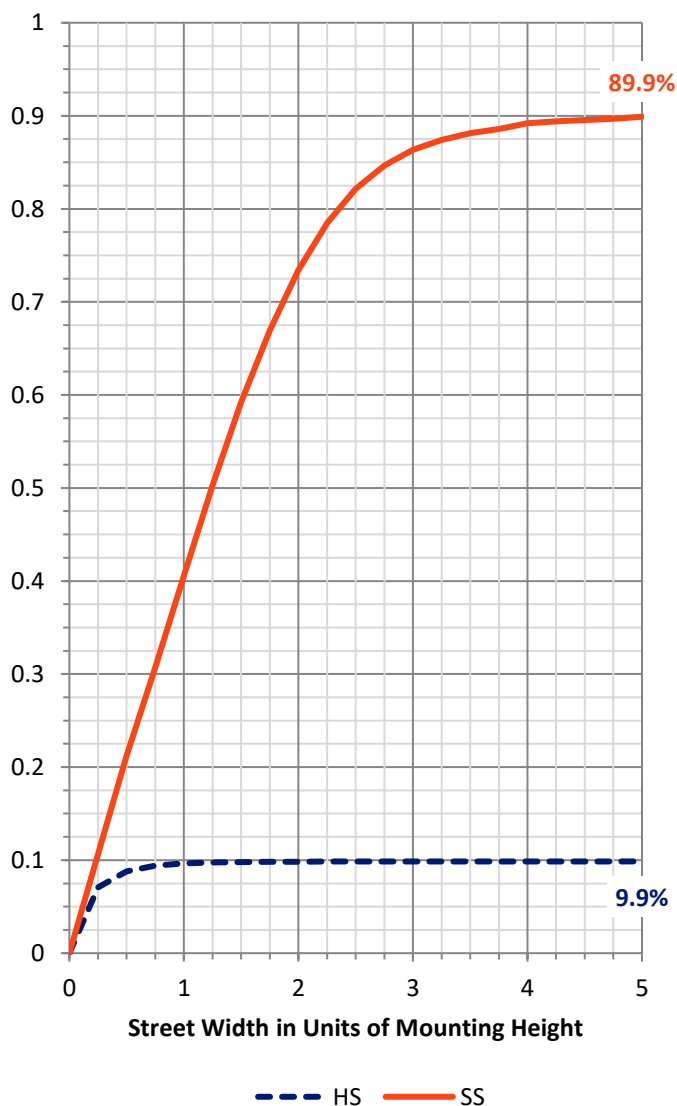
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1676.8	0.0	1676.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	15175.0	0.0	15175.0
	% Fixture	90.0	0.0	90.0
Total	Lumens	16851.8	0.0	16851.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	1.0
10°-20°	498.1	3.0
20°-30°	797.9	4.7
30°-40°	1138.9	6.8
40°-50°	1966.6	11.7
50°-60°	3765.3	22.3
60°-70°	5575.8	33.1
70°-80°	2761.6	16.4
80°-90°	182.5	1.1
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°	16851.8	100.0
0°-180°	16851.8	100.0

Coefficient of Utilization

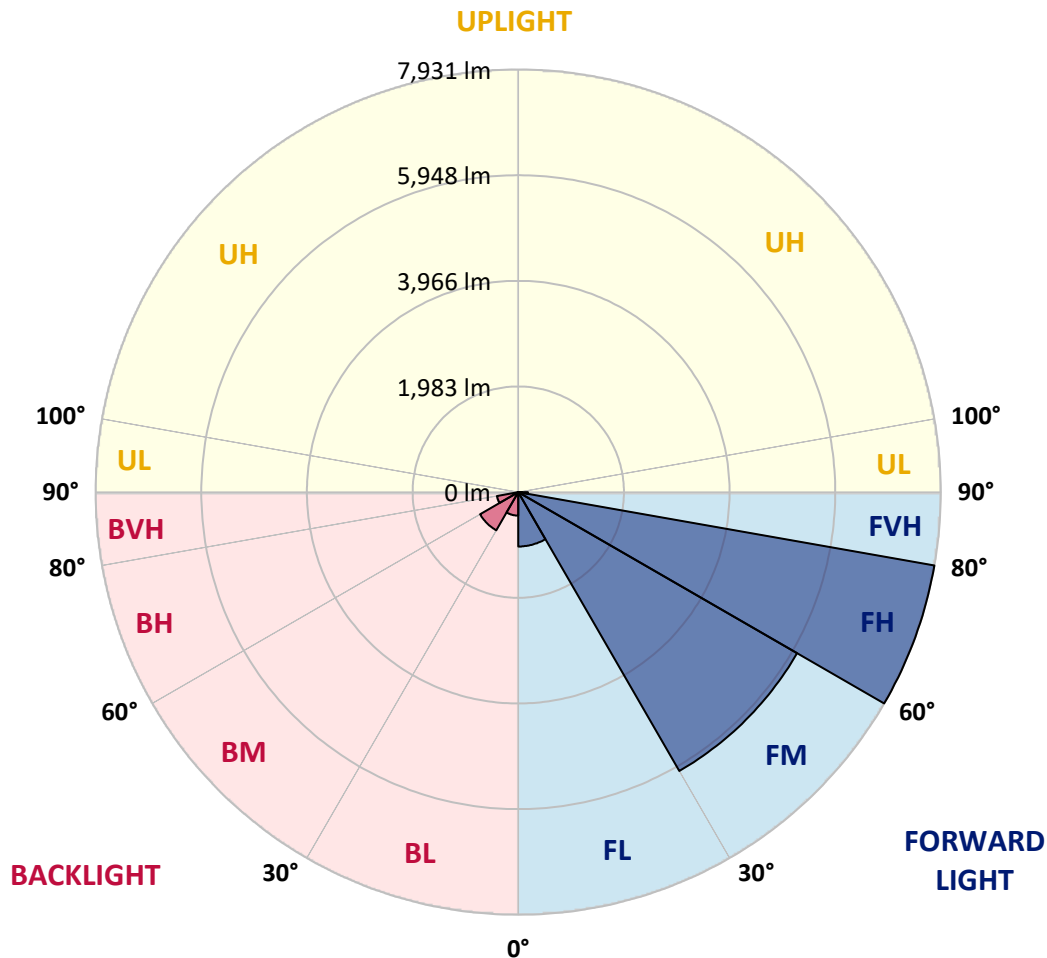


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1020.5	6.1			
FM (30°-60°)	6043.0	35.9			
FH (60°-80°)	7931.3	47.1			G4/12000
FVH (80°-90°)	180.2	1.1			G2/225
BL (0°-30°)	440.5	2.6	B1/500		
BM (30°-60°)	827.8	4.9	B1/1000		
BH (60°-80°)	406.1	2.4	B1/500		G1/500
BVH (80°-90°)	2.3	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3
2.5°	1845.9	1833.8	1814.4	1807.1	1787.7	1778.0	1763.5	1756.2	1729.5	1702.8	1685.9
5°	2071.5	2042.4	2052.1	2023.0	1960.0	1909.0	1906.6	1850.8	1790.2	1741.6	1676.1
7.5°	2299.6	2275.3	2238.9	2197.7	2127.3	2052.1	2030.3	1976.9	1892.0	1807.1	1719.8
10°	2471.8	2454.8	2423.3	2365.0	2268.0	2183.1	2185.5	2095.8	2006.0	1909.0	1790.2
12.5°	2578.5	2585.8	2539.7	2481.5	2396.6	2289.8	2287.4	2226.8	2124.9	2023.0	1882.3
15°	2685.2	2711.9	2641.6	2573.7	2464.5	2386.9	2401.4	2328.7	2229.2	2112.8	1957.5
17.5°	2702.2	2709.5	2694.9	2595.5	2515.4	2449.9	2452.4	2403.9	2328.7	2202.5	2069.1
20°	2673.1	2668.3	2651.3	2578.5	2525.1	2486.3	2488.8	2476.6	2435.4	2333.5	2151.6
22.5°	2588.2	2588.2	2566.4	2517.9	2493.6	2530.0	2500.9	2547.0	2503.3	2442.7	2292.3
25°	2520.3	2547.0	2534.8	2503.3	2513.0	2561.5	2576.1	2619.7	2612.5	2537.3	2389.3
27.5°	2593.1	2561.5	2568.8	2532.4	2568.8	2641.6	2648.8	2680.4	2678.0	2617.3	2476.6
30°	2641.6	2670.7	2614.9	2534.8	2573.7	2697.4	2692.5	2733.7	2753.2	2680.4	2559.1
32.5°	2796.8	2772.6	2726.5	2619.7	2624.6	2694.9	2716.8	2770.1	2782.3	2738.6	2639.1
35°	3114.6	3078.2	2876.9	2716.8	2692.5	2726.5	2741.0	2845.3	2867.2	2818.6	2724.0
37.5°	3604.6	3522.1	3279.5	2925.4	2816.2	2808.9	2808.9	2947.2	3029.7	2918.1	2850.2
40°	4305.6	4189.2	3927.2	3311.1	2978.7	3007.9	3037.0	3112.2	3102.5	3029.7	3015.1
42.5°	5198.2	5108.5	4824.7	3958.7	3289.2	3143.7	3119.4	3221.3	3374.1	3345.0	3335.3
45°	5942.9	5947.8	5765.9	4846.5	3825.3	3456.6	3473.6	3551.2	3808.3	3786.5	3784.1
47.5°	6486.3	6418.4	6391.7	5702.8	4606.4	4050.9	4026.6	4080.0	4414.7	4553.0	4616.1
50°	6981.1	6935.0	6872.0	6534.8	5545.1	4795.6	4771.3	4776.2	5288.0	5482.1	5637.3
52.5°	7594.8	7653.0	7444.4	7238.2	6760.4	5763.4	5736.7	5642.1	6277.7	6544.5	6728.9
55°	8351.6	8242.5	8007.2	8113.9	7922.3	6808.9	6760.4	6648.8	7405.6	7517.2	7711.3
57.5°	8519.0	8436.5	8679.1	9057.5	9241.9	8036.3	8016.9	7815.6	8354.1	8252.2	8800.4
60°	8936.2	8958.1	9295.2	10047.2	10367.4	9452.9	9358.3	9004.1	9273.4	9292.8	9877.4
62.5°	9365.6	9314.6	10069.0	10791.9	11284.3	10794.3	10762.8	10059.3	10365.0	10117.5	10891.3
65°	9050.2	9127.9	10207.3	11417.7	12472.9	12106.6	12079.9	11075.7	11243.1	10935.0	11303.7
67.5°	7929.6	7771.9	9283.1	11131.5	13084.1	13482.0	13452.9	12184.2	11737.9	10930.1	10447.4
70°	5811.9	5676.1	6908.4	9426.2	12208.5	14185.4	14301.8	12955.6	11536.6	9911.4	8060.6
72.5°	2847.8	2850.2	3871.4	6391.7	9659.1	12928.9	12987.1	11878.6	9911.4	7306.2	4565.1
75°	841.7	851.4	1433.6	3134.0	6243.7	9819.2	9884.7	9016.3	6869.5	3774.4	1557.3
77.5°	308.1	308.1	475.4	1176.5	3114.6	6197.6	6192.8	5535.4	3478.4	1278.3	363.9
80°	160.1	167.4	247.4	480.3	1348.7	3228.6	3349.9	2709.5	1322.0	538.5	106.7
82.5°	65.5	72.8	135.8	247.4	647.7	1132.8	1239.5	1062.5	574.9	376.0	48.5
85°	19.4	21.8	65.5	138.3	254.7	283.8	315.3	356.6	361.4	291.1	21.8
87.5°	2.4	2.4	26.7	46.1	55.8	60.6	70.3	70.3	184.4	203.8	12.1
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°	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3	1654.3
2.5°	1666.4	1654.3	1634.9	1591.2	1581.5	1550.0	1547.6	1518.5	1528.2	1508.8	1501.5
5°	1654.3	1627.6	1574.3	1540.3	1506.4	1484.5	1470.0	1457.8	1455.4	1445.7	1440.9
7.5°	1676.1	1639.8	1557.3	1503.9	1445.7	1426.3	1394.8	1392.3	1375.4	1358.4	1358.4
10°	1748.9	1683.4	1593.7	1503.9	1428.7	1365.7	1292.9	1239.5	1220.1	1176.5	1181.3
12.5°	1807.1	1748.9	1617.9	1525.8	1411.7	1268.6	1108.5	984.8	926.6	870.8	892.7
15°	1889.6	1804.7	1664.0	1530.6	1346.3	1098.8	836.9	698.6	645.2	633.1	630.7
17.5°	1979.4	1889.6	1722.2	1518.5	1212.8	849.0	616.1	536.1	545.8	560.3	557.9
20°	2078.8	1969.7	1765.9	1477.2	1001.8	616.1	504.5	502.1	516.7	538.5	543.4
22.5°	2183.1	2088.5	1819.3	1353.5	747.1	494.8	485.1	485.1	494.8	521.5	516.7
25°	2299.6	2173.4	1845.9	1161.9	536.1	456.0	460.9	470.6	475.4	497.3	499.7
27.5°	2389.3	2268.0	1853.2	931.5	436.6	422.1	434.2	446.3	453.6	470.6	477.9
30°	2471.8	2386.9	1814.4	693.7	400.2	393.0	397.8	414.8	429.3	443.9	443.9
32.5°	2576.1	2454.8	1724.7	492.4	378.4	366.3	363.9	371.1	388.1	405.1	405.1
35°	2682.8	2568.8	1581.5	395.4	359.0	342.0	332.3	325.0	332.3	344.4	354.2
37.5°	2838.1	2741.0	1402.0	363.9	344.4	320.2	300.8	283.8	271.7	269.3	276.5
40°	3058.8	2935.1	1171.6	342.0	327.5	298.4	269.3	240.1	213.5	196.5	198.9
42.5°	3393.5	3221.3	921.8	329.9	315.3	274.1	232.9	191.6	157.7	140.7	140.7
45°	3871.4	3599.7	676.8	317.8	300.8	245.0	191.6	143.1	109.2	99.5	101.9
47.5°	4591.8	4055.7	485.1	298.4	281.4	213.5	150.4	101.9	80.0	75.2	77.6
50°	5533.0	4596.7	378.4	276.5	257.1	179.5	111.6	75.2	63.1	60.6	63.1
52.5°	6520.2	5142.5	332.3	257.1	220.7	143.1	82.5	60.6	53.4	50.9	53.4
55°	7364.4	5494.2	288.7	228.0	177.1	106.7	65.5	53.4	46.1	38.8	38.8
57.5°	8218.2	5671.3	228.0	189.2	131.0	80.0	55.8	46.1	38.8	31.5	29.1
60°	8912.0	5797.4	162.5	140.7	92.2	63.1	48.5	41.2	31.5	24.3	21.8
62.5°	9368.0	5436.0	118.9	106.7	67.9	53.4	41.2	34.0	24.3	17.0	17.0
65°	9142.4	4936.3	92.2	75.2	50.9	41.2	34.0	24.3	17.0	9.7	7.3
67.5°	8203.7	4021.8	75.2	55.8	38.8	31.5	26.7	19.4	9.7	2.4	2.4
70°	6120.0	2947.2	60.6	41.2	31.5	24.3	19.4	12.1	4.9	2.4	0.0
72.5°	3347.4	1613.1	48.5	34.0	24.3	19.4	14.6	9.7	4.9	0.0	0.0
75°	1106.1	429.3	36.4	24.3	14.6	12.1	9.7	7.3	2.4	0.0	0.0
77.5°	266.8	111.6	29.1	21.8	12.1	7.3	4.9	2.4	2.4	0.0	0.0
80°	82.5	46.1	21.8	14.6	9.7	7.3	2.4	0.0	0.0	0.0	0.0
82.5°	34.0	21.8	9.7	9.7	7.3	2.4	0.0	0.0	0.0	0.0	0.0
85°	17.0	12.1	7.3	4.9	4.9	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	12.1	4.9	2.4	2.4	0.0	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)