

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: P483599

Luminaire Tested: **IFLD-M-SA4C-735-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483599
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

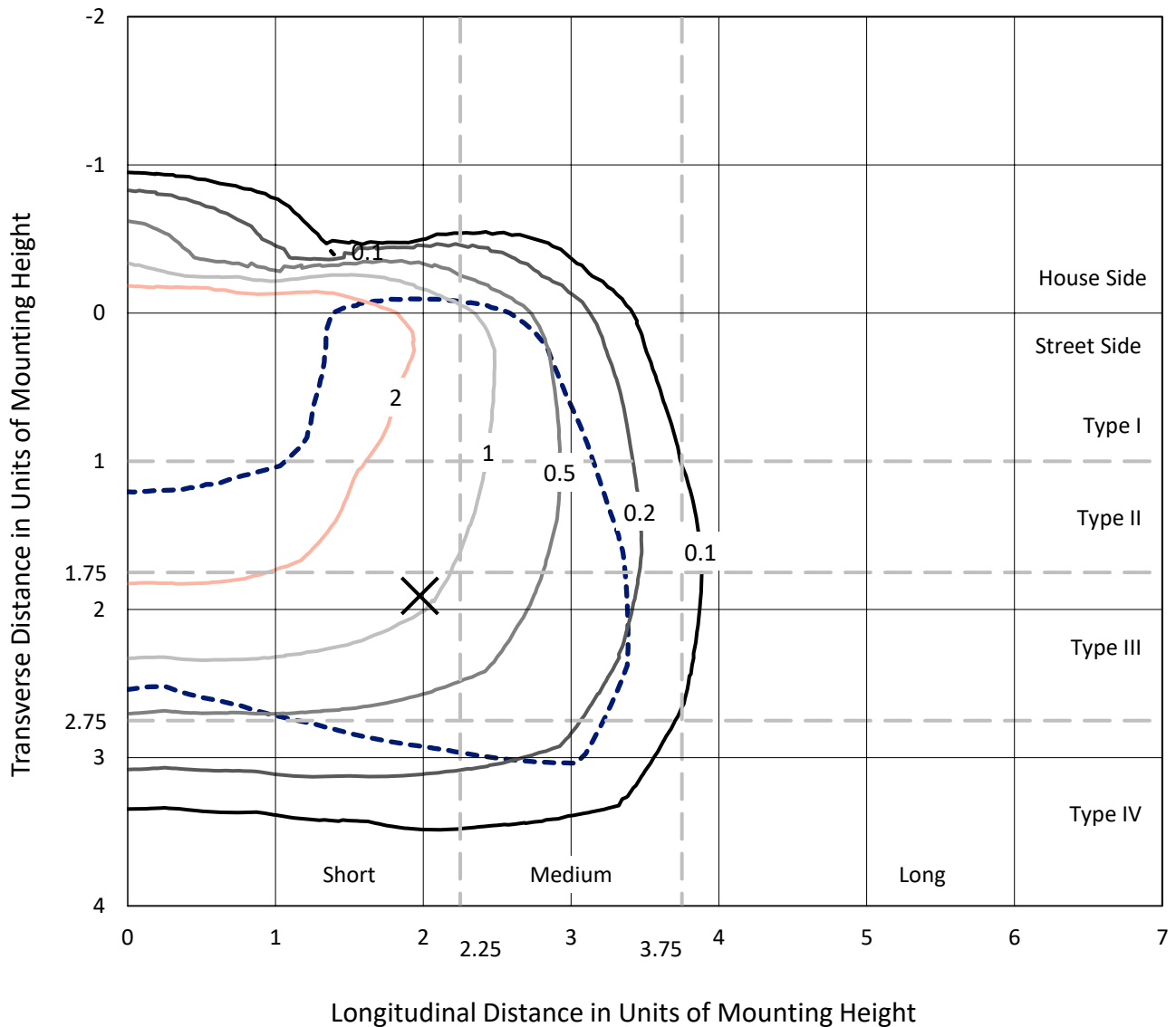
Lumens per Lamp: N/A
Luminaire Lumens: 20690.5 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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

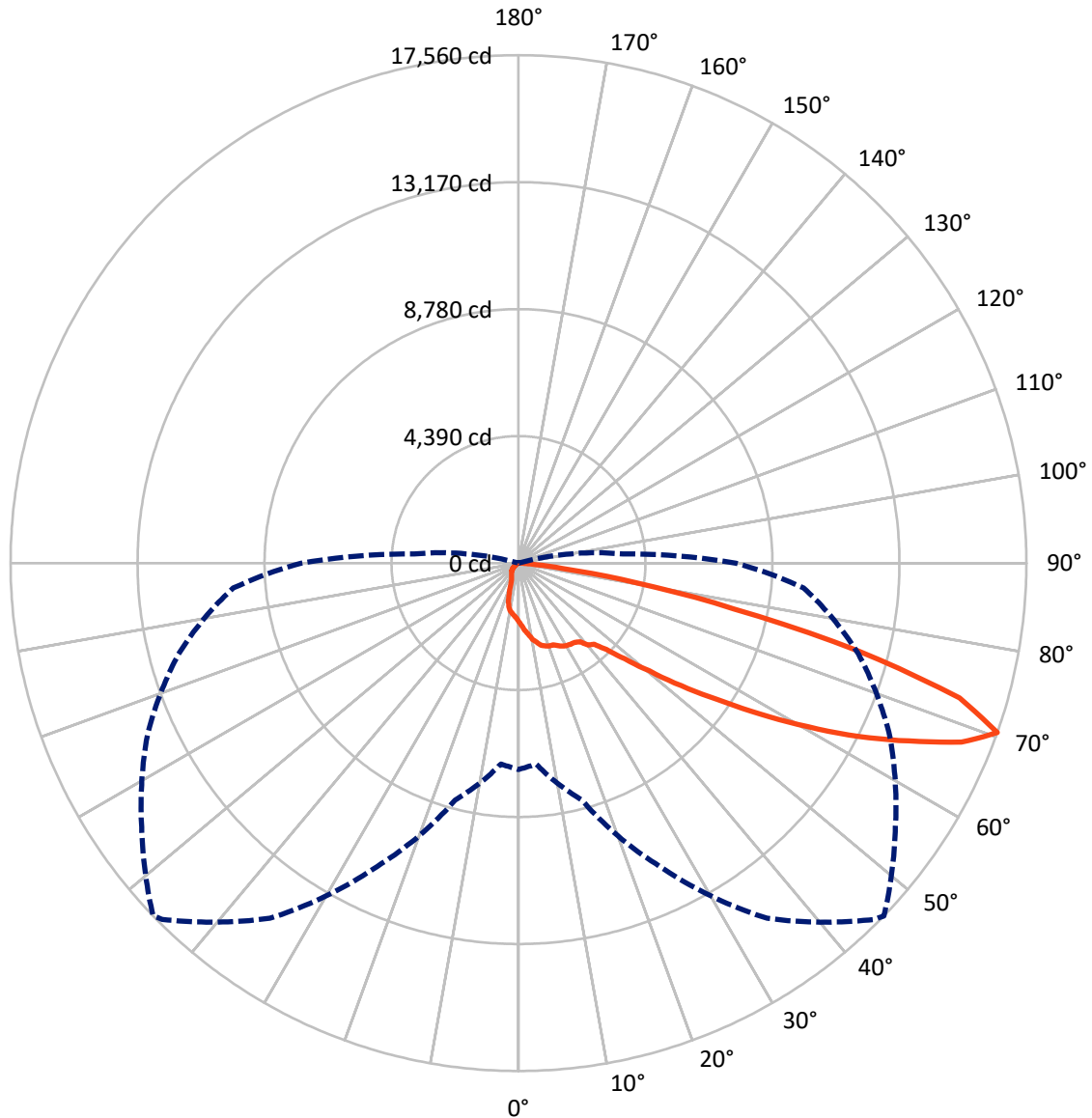
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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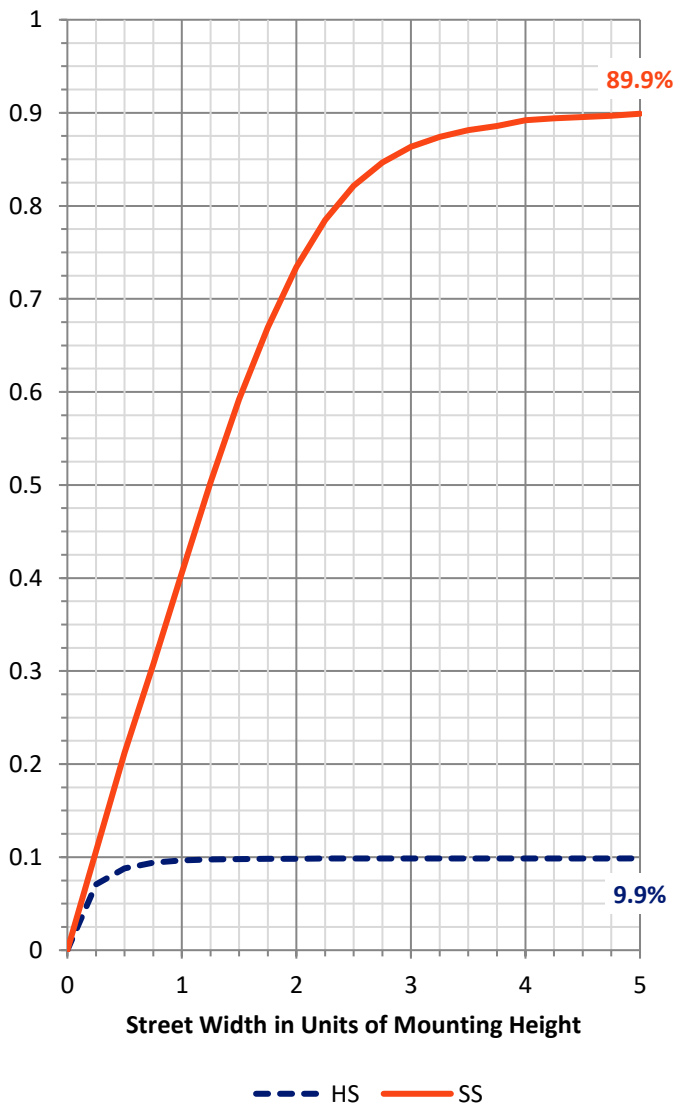
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2058.8	0.0	2058.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	18631.8	0.0	18631.8
	% Fixture	90.0	0.0	90.0
Total	Lumens	20690.5	0.0	20690.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	1.0
10°-20°	611.6	3.0
20°-30°	979.7	4.7
30°-40°	1398.4	6.8
40°-50°	2414.6	11.7
50°-60°	4623.0	22.3
60°-70°	6845.9	33.1
70°-80°	3390.7	16.4
80°-90°	224.1	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°	20690.5	100.0
0°-180°	20690.5	100.0

Coefficient of Utilization

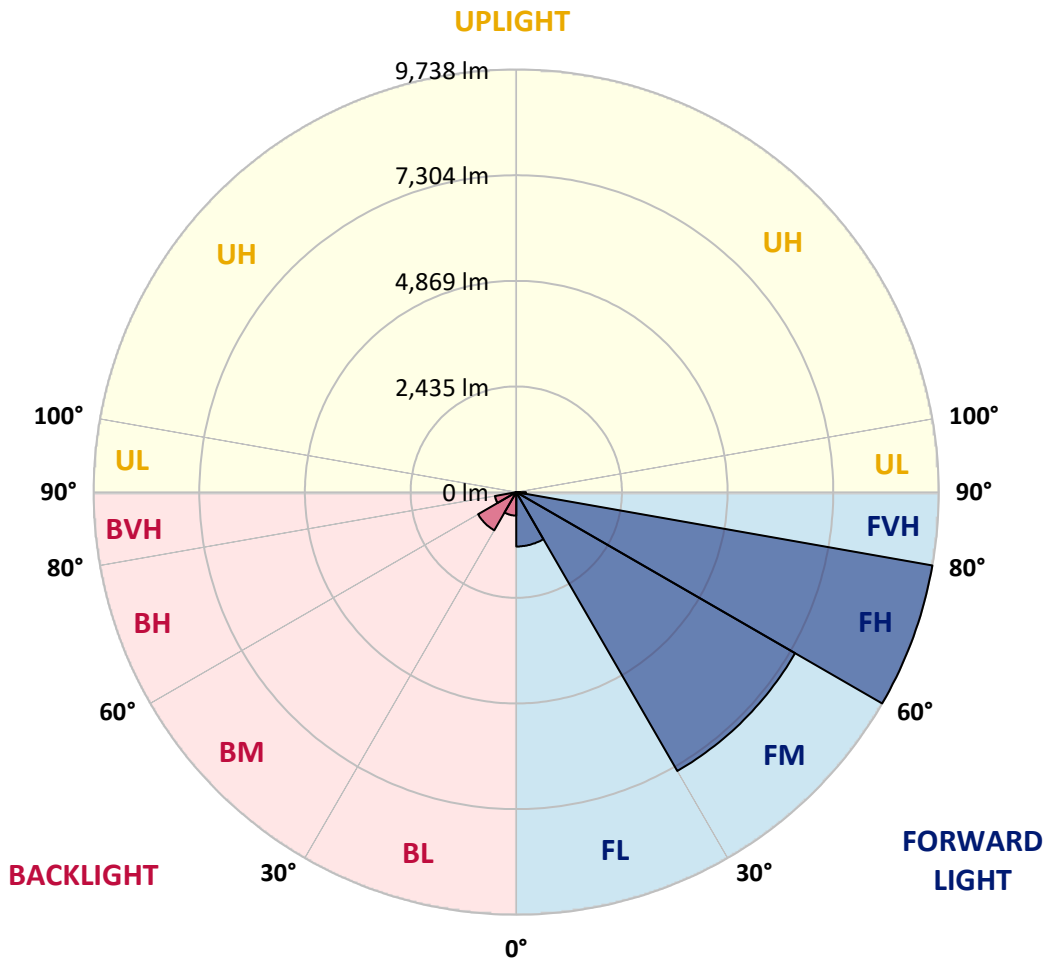


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.0	6.1			
FM (30°-60°)	7419.6	35.9			
FH (60°-80°)	9738.0	47.1			G4/12000
FVH (80°-90°)	221.2	1.1			G2/225
BL (0°-30°)	540.9	2.6	B2/1000		
BM (30°-60°)	1016.4	4.9	B2/2500		
BH (60°-80°)	498.6	2.4	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2031.2	2031.2	2031.2	2031.2	2031.2	2031.2	2031.2	2031.2	2031.2	2031.2	2031.2
2.5°	2266.4	2251.6	2227.7	2218.8	2195.0	2183.1	2165.2	2156.3	2123.5	2090.7	2069.9
5°	2543.4	2507.7	2519.6	2483.9	2406.4	2343.9	2340.9	2272.4	2197.9	2138.4	2058.0
7.5°	2823.4	2793.6	2748.9	2698.3	2611.9	2519.6	2492.8	2427.3	2323.0	2218.8	2111.6
10°	3034.8	3014.0	2975.3	2903.8	2784.7	2680.4	2683.4	2573.2	2463.0	2343.9	2197.9
12.5°	3165.9	3174.8	3118.2	3046.7	2942.5	2811.5	2808.5	2734.0	2608.9	2483.9	2311.1
15°	3296.9	3329.7	3243.3	3159.9	3025.9	2930.6	2948.5	2859.1	2737.0	2594.1	2403.4
17.5°	3317.8	3326.7	3308.8	3186.7	3088.4	3008.0	3011.0	2951.4	2859.1	2704.2	2540.4
20°	3282.0	3276.1	3255.2	3165.9	3100.4	3052.7	3055.7	3040.8	2990.2	2865.1	2641.7
22.5°	3177.8	3177.8	3151.0	3091.4	3061.6	3106.3	3070.6	3127.2	3073.6	2999.1	2814.4
25°	3094.4	3127.2	3112.3	3073.6	3085.5	3145.0	3162.9	3216.5	3207.6	3115.2	2933.6
27.5°	3183.7	3145.0	3154.0	3109.3	3154.0	3243.3	3252.2	3291.0	3288.0	3213.5	3040.8
30°	3243.3	3279.0	3210.5	3112.3	3159.9	3311.8	3305.9	3356.5	3380.3	3291.0	3142.0
32.5°	3433.9	3404.1	3347.5	3216.5	3222.5	3308.8	3335.6	3401.2	3416.0	3362.4	3240.3
35°	3824.1	3779.4	3532.2	3335.6	3305.9	3347.5	3365.4	3493.5	3520.3	3460.7	3344.6
37.5°	4425.7	4324.4	4026.6	3591.8	3457.7	3448.8	3448.8	3618.6	3719.8	3582.8	3499.4
40°	5286.4	5143.4	4821.8	4065.3	3657.3	3693.0	3728.8	3821.1	3809.2	3719.8	3702.0
42.5°	6382.4	6272.2	5923.7	4860.5	4038.5	3859.8	3830.0	3955.1	4142.7	4107.0	4095.1
45°	7296.7	7302.7	7079.3	5950.5	4696.7	4244.0	4264.8	4360.2	4675.8	4649.0	4646.1
47.5°	7963.8	7880.4	7847.7	7001.9	5655.7	4973.7	4943.9	5009.4	5420.4	5590.2	5667.6
50°	8571.4	8514.8	8437.4	8023.4	6808.3	5888.0	5858.2	5864.2	6492.6	6730.8	6921.4
52.5°	9324.9	9396.4	9140.2	8887.1	8300.4	7076.3	7043.6	6927.4	7707.7	8035.3	8261.7
55°	10254.1	10120.1	9831.2	9962.2	9727.0	8359.9	8300.4	8163.4	9092.6	9229.6	9467.8
57.5°	10459.6	10358.3	10656.2	11120.8	11347.1	9866.9	9843.1	9595.9	10257.1	10132.0	10805.1
60°	10971.9	10998.7	11412.6	12335.9	12729.0	11606.2	11490.1	11055.3	11385.8	11409.7	12127.4
62.5°	11499.0	11436.5	12362.7	13250.2	13854.8	13253.2	13214.5	12350.8	12726.0	12422.3	13372.3
65°	11111.8	11207.1	12532.5	14018.6	15314.1	14864.4	14831.7	13598.7	13804.2	13425.9	13878.6
67.5°	9735.9	9542.3	11397.7	13667.2	16064.7	16553.1	16517.4	14959.7	14411.7	13420.0	12827.3
70°	7135.9	6969.1	8482.0	11573.5	14989.5	17416.8	17559.7	15906.8	14164.5	12169.1	9896.7
72.5°	3496.5	3499.4	4753.3	7847.7	11859.4	15874.1	15945.5	14584.5	12169.1	8970.5	5605.1
75°	1033.5	1045.4	1760.1	3847.9	7666.0	12055.9	12136.4	11070.1	8434.4	4634.2	1912.0
77.5°	378.2	378.2	583.7	1444.4	3824.1	7609.4	7603.5	6796.4	4270.8	1569.5	446.7
80°	196.6	205.5	303.8	589.7	1655.9	3964.0	4113.0	3326.7	1623.1	661.2	131.0
82.5°	80.4	89.3	166.8	303.8	795.2	1390.8	1521.9	1304.5	705.8	461.6	59.6
85°	23.8	26.8	80.4	169.8	312.7	348.5	387.2	437.8	443.8	357.4	26.8
87.5°	3.0	3.0	32.8	56.6	68.5	74.5	86.4	86.4	226.3	250.2	14.9
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°	2031.2	2031.2	2031.2	2031.2	2031.2	2031.2	2031.2	2031.2	2031.2	2031.2	2031.2
2.5°	2046.1	2031.2	2007.3	1953.7	1941.8	1903.1	1900.1	1864.4	1876.3	1852.5	1843.5
5°	2031.2	1998.4	1932.9	1891.2	1849.5	1822.7	1804.8	1789.9	1786.9	1775.0	1769.1
7.5°	2058.0	2013.3	1912.0	1846.5	1775.0	1751.2	1712.5	1709.5	1688.7	1667.8	1667.8
10°	2147.3	2066.9	1956.7	1846.5	1754.2	1676.8	1587.4	1521.9	1498.1	1444.4	1450.4
12.5°	2218.8	2147.3	1986.5	1873.3	1733.3	1557.6	1361.1	1209.2	1137.7	1069.2	1096.0
15°	2320.1	2215.8	2043.1	1879.3	1652.9	1349.1	1027.5	857.7	792.2	777.3	774.3
17.5°	2430.2	2320.1	2114.6	1864.4	1489.1	1042.4	756.5	658.2	670.1	688.0	685.0
20°	2552.4	2418.3	2168.2	1813.8	1230.0	756.5	619.5	616.5	634.4	661.2	667.1
22.5°	2680.4	2564.3	2233.7	1661.9	917.3	607.6	595.6	595.6	607.6	640.3	634.4
25°	2823.4	2668.5	2266.4	1426.6	658.2	559.9	565.9	577.8	583.7	610.5	613.5
27.5°	2933.6	2784.7	2275.4	1143.6	536.1	518.2	533.1	548.0	556.9	577.8	586.7
30°	3034.8	2930.6	2227.7	851.8	491.4	482.5	488.4	509.3	527.1	545.0	545.0
32.5°	3162.9	3014.0	2117.5	604.6	464.6	449.7	446.7	455.7	476.5	497.4	497.4
35°	3293.9	3154.0	1941.8	485.5	440.8	419.9	408.0	399.1	408.0	422.9	434.8
37.5°	3484.5	3365.4	1721.4	446.7	422.9	393.1	369.3	348.5	333.6	330.6	339.5
40°	3755.6	3603.7	1438.5	419.9	402.1	366.3	330.6	294.8	262.1	241.2	244.2
42.5°	4166.6	3955.1	1131.7	405.0	387.2	336.5	285.9	235.3	193.6	172.7	172.7
45°	4753.3	4419.7	830.9	390.2	369.3	300.8	235.3	175.7	134.0	122.1	125.1
47.5°	5637.8	4979.6	595.6	366.3	345.5	262.1	184.7	125.1	98.3	92.3	95.3
50°	6793.4	5643.8	464.6	339.5	315.7	220.4	137.0	92.3	77.4	74.5	77.4
52.5°	8005.5	6313.9	408.0	315.7	271.0	175.7	101.3	74.5	65.5	62.5	65.5
55°	9042.0	6745.7	354.4	280.0	217.4	131.0	80.4	65.5	56.6	47.7	47.7
57.5°	10090.3	6963.1	280.0	232.3	160.8	98.3	68.5	56.6	47.7	38.7	35.7
60°	10942.1	7118.0	199.5	172.7	113.2	77.4	59.6	50.6	38.7	29.8	26.8
62.5°	11502.0	6674.2	145.9	131.0	83.4	65.5	50.6	41.7	29.8	20.8	20.8
65°	11225.0	6060.7	113.2	92.3	62.5	50.6	41.7	29.8	20.8	11.9	8.9
67.5°	10072.4	4937.9	92.3	68.5	47.7	38.7	32.8	23.8	11.9	3.0	3.0
70°	7514.1	3618.6	74.5	50.6	38.7	29.8	23.8	14.9	6.0	3.0	0.0
72.5°	4110.0	1980.5	59.6	41.7	29.8	23.8	17.9	11.9	6.0	0.0	0.0
75°	1358.1	527.1	44.7	29.8	17.9	14.9	11.9	8.9	3.0	0.0	0.0
77.5°	327.6	137.0	35.7	26.8	14.9	8.9	6.0	3.0	3.0	0.0	0.0
80°	101.3	56.6	26.8	17.9	11.9	8.9	3.0	0.0	0.0	0.0	0.0
82.5°	41.7	26.8	11.9	11.9	8.9	3.0	0.0	0.0	0.0	0.0	0.0
85°	20.8	14.9	8.9	6.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.9	6.0	3.0	3.0	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)