

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: P483638

Luminaire Tested: **IFLD-M-SA4C-740-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483638
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-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

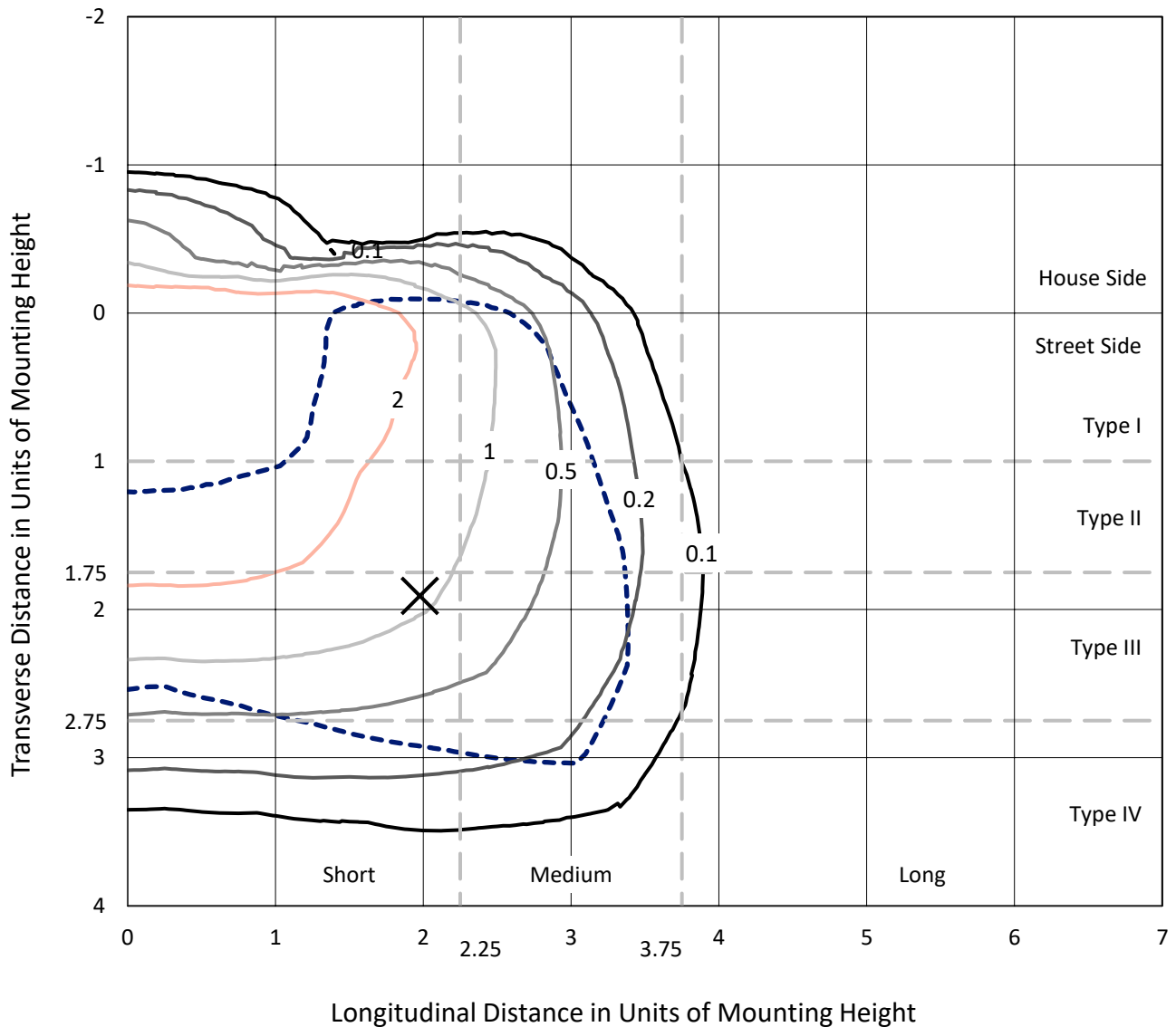
Lumens per Lamp: N/A
Luminaire Lumens: 20977.9 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

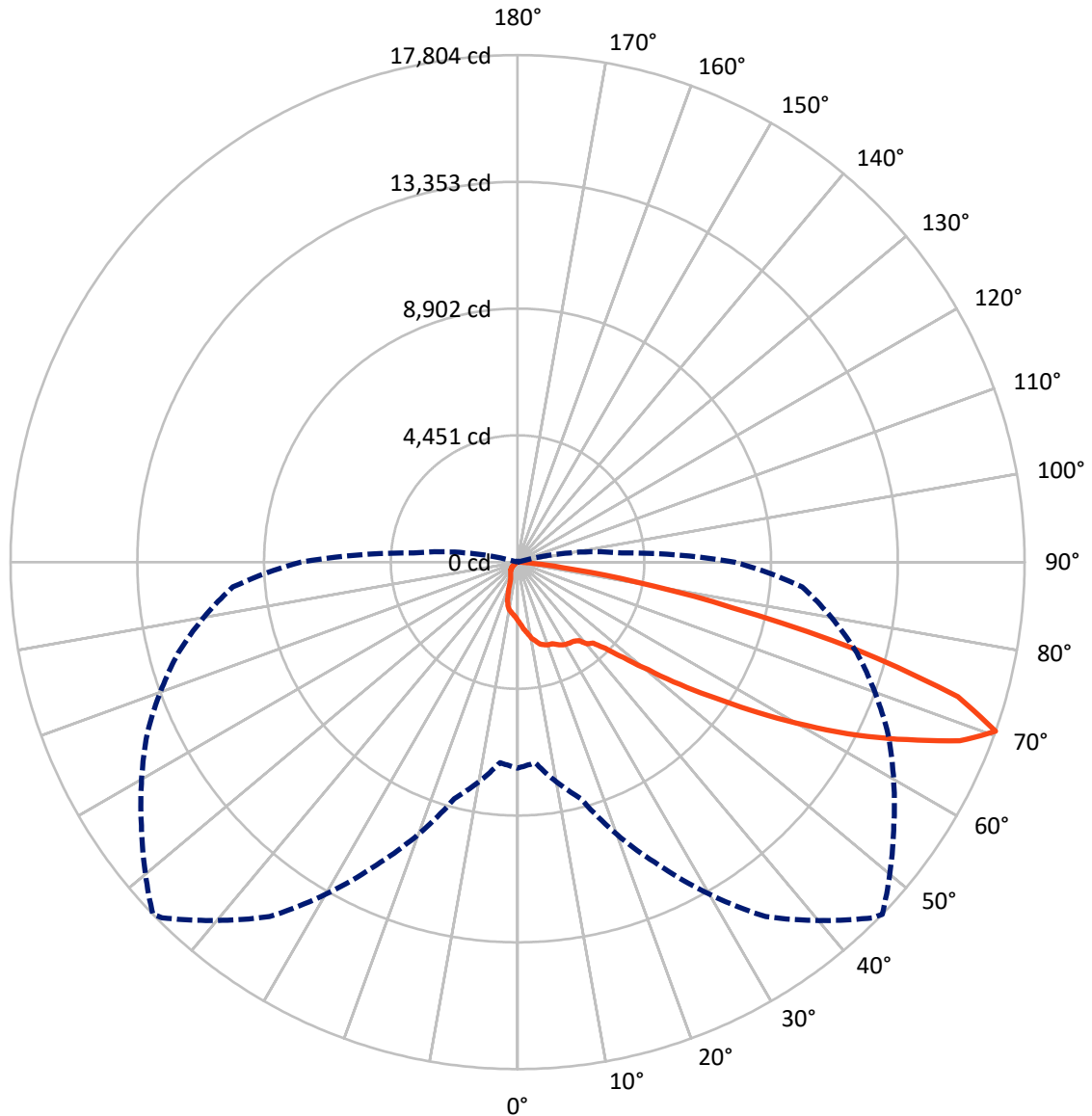
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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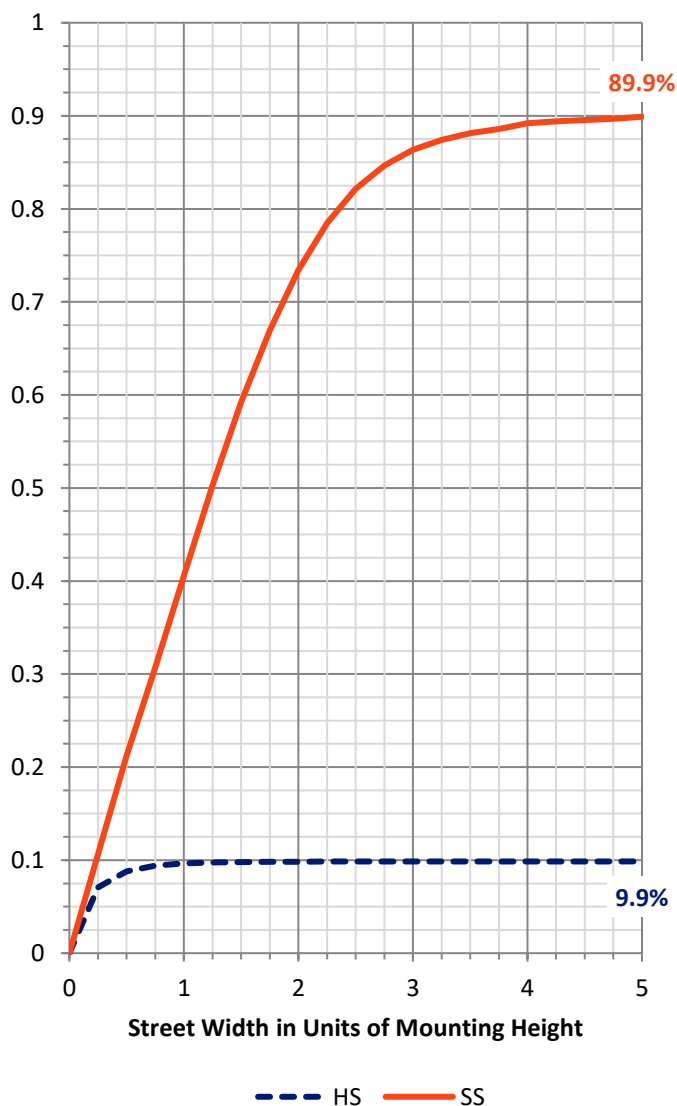
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2087.4	0.0	2087.4
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	18890.5	0.0	18890.5
	% Fixture	90.0	0.0	90.0
Total	Lumens	20977.9	0.0	20977.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.3	1.0
10°-20°	620.1	3.0
20°-30°	993.3	4.7
30°-40°	1417.8	6.8
40°-50°	2448.2	11.7
50°-60°	4687.2	22.3
60°-70°	6941.0	33.1
70°-80°	3437.8	16.4
80°-90°	227.2	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°	20977.9	100.0
0°-180°	20977.9	100.0

Coefficient of Utilization



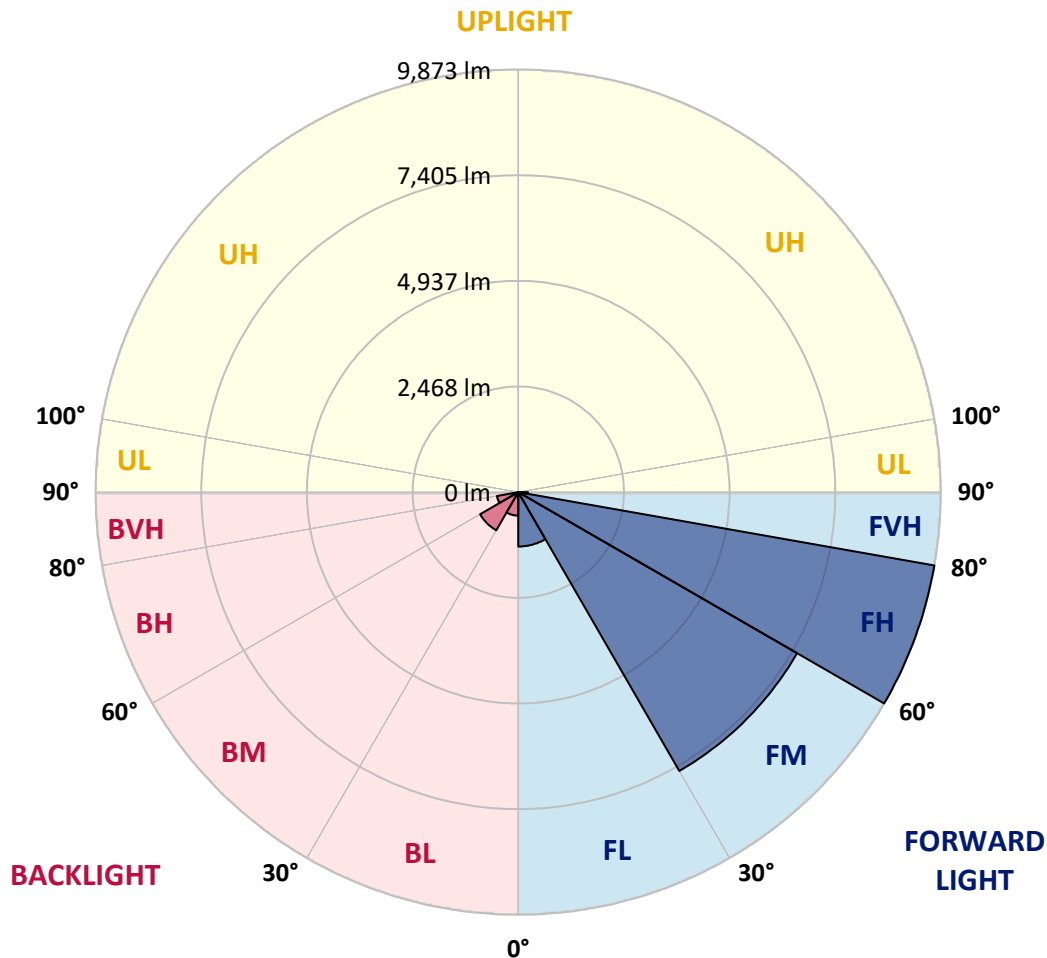
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1270.4	6.1			
FM (30°-60°)	7522.6	35.9			
FH (60°-80°)	9873.3	47.1			G4/12000
FVH (80°-90°)	224.3	1.1			G2/225
BL (0°-30°)	548.4	2.6	B2/1000		
BM (30°-60°)	1030.5	4.9	B2/2500		
BH (60°-80°)	505.5	2.4	B2/1000		G2/1000
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°	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4
2.5°	2297.9	2282.8	2258.7	2249.6	2225.5	2213.4	2195.3	2186.2	2153.0	2119.8	2098.6
5°	2578.8	2542.5	2554.6	2518.4	2439.8	2376.4	2373.4	2304.0	2228.5	2168.1	2086.6
7.5°	2862.6	2832.4	2787.1	2735.8	2648.2	2554.6	2527.4	2461.0	2355.3	2249.6	2140.9
10°	3077.0	3055.9	3016.6	2944.1	2823.3	2717.7	2720.7	2608.9	2497.2	2376.4	2228.5
12.5°	3209.9	3218.9	3161.5	3089.1	2983.4	2850.5	2847.5	2772.0	2645.2	2518.4	2343.2
15°	3342.7	3375.9	3288.4	3203.8	3067.9	2971.3	2989.4	2898.8	2775.0	2630.1	2436.8
17.5°	3363.9	3372.9	3354.8	3231.0	3131.3	3049.8	3052.8	2992.4	2898.8	2741.8	2575.7
20°	3327.6	3321.6	3300.4	3209.9	3143.4	3095.1	3098.1	3083.0	3031.7	2904.9	2678.4
22.5°	3221.9	3221.9	3194.8	3134.4	3104.2	3149.5	3113.2	3170.6	3116.2	3040.8	2853.5
25°	3137.4	3170.6	3155.5	3116.2	3128.3	3188.7	3206.8	3261.2	3252.1	3158.5	2974.3
27.5°	3228.0	3188.7	3197.8	3152.5	3197.8	3288.4	3297.4	3336.7	3333.7	3258.2	3083.0
30°	3288.4	3324.6	3255.1	3155.5	3203.8	3357.8	3351.8	3403.1	3427.3	3336.7	3185.7
32.5°	3481.6	3451.4	3394.0	3261.2	3267.2	3354.8	3382.0	3448.4	3463.5	3409.1	3285.3
35°	3877.2	3831.9	3581.3	3382.0	3351.8	3394.0	3412.2	3542.0	3569.2	3508.8	3391.0
37.5°	4487.1	4384.5	4082.5	3641.7	3505.8	3496.7	3496.7	3668.8	3771.5	3632.6	3548.0
40°	5359.8	5214.9	4888.8	4121.8	3708.1	3744.3	3780.6	3874.2	3862.1	3771.5	3753.4
42.5°	6471.0	6359.3	6006.0	4928.0	4094.6	3913.4	3883.2	4010.0	4200.3	4164.0	4152.0
45°	7398.1	7404.1	7177.6	6033.2	4761.9	4303.0	4324.1	4420.7	4740.8	4713.6	4710.6
47.5°	8074.5	7989.9	7956.7	7099.1	5734.2	5042.8	5012.6	5079.0	5495.7	5667.8	5746.3
50°	8690.5	8633.1	8554.6	8134.8	6902.8	5969.8	5939.6	5945.6	6582.8	6824.3	7017.6
52.5°	9454.4	9526.9	9267.2	9010.5	8415.7	7174.6	7141.4	7023.6	7814.8	8146.9	8376.4
55°	10396.5	10260.7	9967.7	10100.6	9862.1	8476.1	8415.7	8276.8	9218.9	9357.8	9599.4
57.5°	10604.9	10502.2	10804.2	11275.2	11504.7	10004.0	9979.8	9729.2	10399.6	10272.7	10955.2
60°	11124.3	11151.4	11571.2	12507.2	12905.8	11767.4	11649.7	11208.8	11544.0	11568.1	12295.9
62.5°	11658.7	11595.3	12534.4	13434.3	14047.2	13437.3	13398.0	12522.3	12902.8	12594.8	13558.1
65°	11266.2	11362.8	12706.5	14213.3	15526.9	15070.9	15037.7	13787.6	13995.9	13612.4	14071.4
67.5°	9871.1	9674.8	11556.1	13857.0	16287.8	16783.0	16746.8	15167.5	14611.9	13606.4	13005.5
70°	7235.0	7065.9	8599.9	11734.2	15197.7	17658.7	17803.7	16127.8	14361.3	12338.1	10034.2
72.5°	3545.0	3548.0	4819.3	7956.7	12024.1	16094.5	16167.0	14787.1	12338.1	9095.1	5682.9
75°	1047.8	1059.9	1784.6	3901.3	7772.5	12223.4	12304.9	11223.9	8551.5	4698.5	1938.6
77.5°	383.5	383.5	591.8	1464.5	3877.2	7715.1	7709.1	6890.8	4330.1	1591.3	452.9
80°	199.3	208.4	308.0	597.9	1678.9	4019.1	4170.1	3372.9	1645.7	670.4	132.9
82.5°	81.5	90.6	169.1	308.0	806.2	1410.2	1543.0	1322.6	715.6	468.0	60.4
85°	24.2	27.2	81.5	172.1	317.1	353.3	392.5	443.9	449.9	362.4	27.2
87.5°	3.0	3.0	33.2	57.4	69.5	75.5	87.6	87.6	229.5	253.6	15.1
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°	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4	2059.4
2.5°	2074.5	2059.4	2035.2	1980.9	1968.8	1929.5	1926.5	1890.3	1902.4	1878.2	1869.1
5°	2059.4	2026.2	1959.7	1917.5	1875.2	1848.0	1829.9	1814.8	1811.8	1799.7	1793.7
7.5°	2086.6	2041.3	1938.6	1872.2	1799.7	1775.5	1736.3	1733.3	1712.1	1691.0	1691.0
10°	2177.1	2095.6	1983.9	1872.2	1778.6	1700.0	1609.5	1543.0	1518.9	1464.5	1470.6
12.5°	2249.6	2177.1	2014.1	1899.3	1757.4	1579.3	1380.0	1226.0	1153.5	1084.0	1111.2
15°	2352.3	2246.6	2071.5	1905.4	1675.9	1367.9	1041.8	869.6	803.2	788.1	785.1
17.5°	2464.0	2352.3	2143.9	1890.3	1509.8	1056.9	767.0	667.3	679.4	697.5	694.5
20°	2587.8	2451.9	2198.3	1838.9	1247.1	767.0	628.1	625.1	643.2	670.4	676.4
22.5°	2717.7	2599.9	2264.7	1684.9	930.0	616.0	603.9	603.9	616.0	649.2	643.2
25°	2862.6	2705.6	2297.9	1446.4	667.3	567.7	573.7	585.8	591.8	619.0	622.0
27.5°	2974.3	2823.3	2307.0	1159.5	543.5	525.4	540.5	555.6	564.7	585.8	594.9
30°	3077.0	2971.3	2258.7	863.6	498.2	489.2	495.2	516.4	534.5	552.6	552.6
32.5°	3206.8	3055.9	2146.9	613.0	471.1	456.0	452.9	462.0	483.1	504.3	504.3
35°	3339.7	3197.8	1968.8	492.2	446.9	425.8	413.7	404.6	413.7	428.8	440.9
37.5°	3532.9	3412.2	1745.3	452.9	428.8	398.6	374.4	353.3	338.2	335.2	344.2
40°	3807.7	3653.7	1458.5	425.8	407.6	371.4	335.2	298.9	265.7	244.6	247.6
42.5°	4224.4	4010.0	1147.5	410.7	392.5	341.2	289.9	238.5	196.3	175.1	175.1
45°	4819.3	4481.1	842.5	395.6	374.4	305.0	238.5	178.2	135.9	123.8	126.8
47.5°	5716.1	5048.8	603.9	371.4	350.3	265.7	187.2	126.8	99.6	93.6	96.6
50°	6887.7	5722.2	471.1	344.2	320.1	223.5	138.9	93.6	78.5	75.5	78.5
52.5°	8116.7	6401.6	413.7	320.1	274.8	178.2	102.7	75.5	66.4	63.4	66.4
55°	9167.6	6839.4	359.3	283.8	220.4	132.9	81.5	66.4	57.4	48.3	48.3
57.5°	10230.5	7059.9	283.8	235.5	163.1	99.6	69.5	57.4	48.3	39.3	36.2
60°	11094.1	7216.9	202.3	175.1	114.7	78.5	60.4	51.3	39.3	30.2	27.2
62.5°	11661.8	6767.0	148.0	132.9	84.5	66.4	51.3	42.3	30.2	21.1	21.1
65°	11380.9	6144.9	114.7	93.6	63.4	51.3	42.3	30.2	21.1	12.1	9.1
67.5°	10212.3	5006.5	93.6	69.5	48.3	39.3	33.2	24.2	12.1	3.0	3.0
70°	7618.5	3668.8	75.5	51.3	39.3	30.2	24.2	15.1	6.0	3.0	0.0
72.5°	4167.1	2008.0	60.4	42.3	30.2	24.2	18.1	12.1	6.0	0.0	0.0
75°	1376.9	534.5	45.3	30.2	18.1	15.1	12.1	9.1	3.0	0.0	0.0
77.5°	332.2	138.9	36.2	27.2	15.1	9.1	6.0	3.0	3.0	0.0	0.0
80°	102.7	57.4	27.2	18.1	12.1	9.1	3.0	0.0	0.0	0.0	0.0
82.5°	42.3	27.2	12.1	12.1	9.1	3.0	0.0	0.0	0.0	0.0	0.0
85°	21.1	15.1	9.1	6.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.1	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)