

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: P476460

Luminaire Tested: **IFLD-M-SA4A-722-U-T2**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P476460
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-722-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

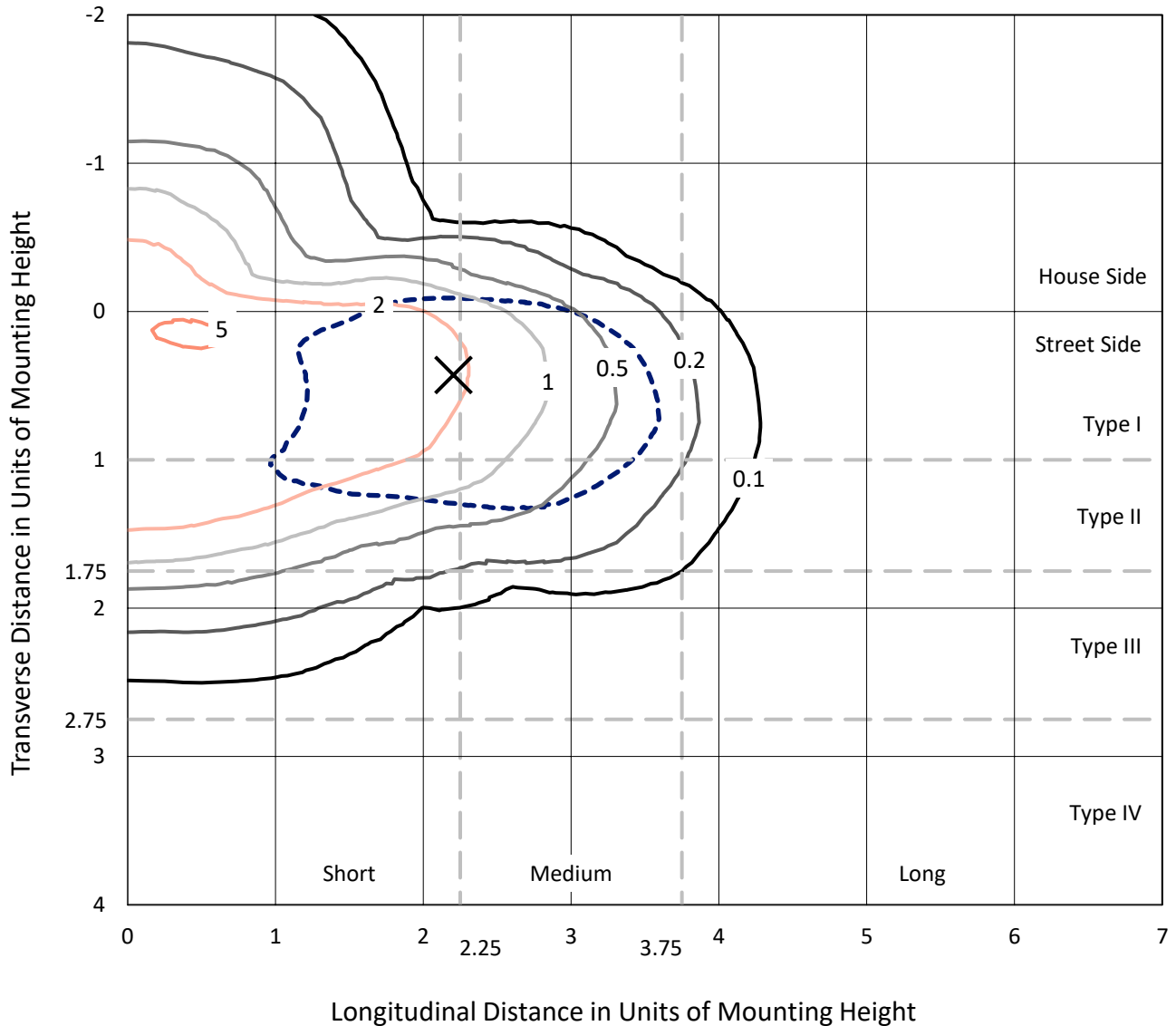
Lumens per Lamp: N/A
Luminaire Lumens: 13586.7 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 128.6
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

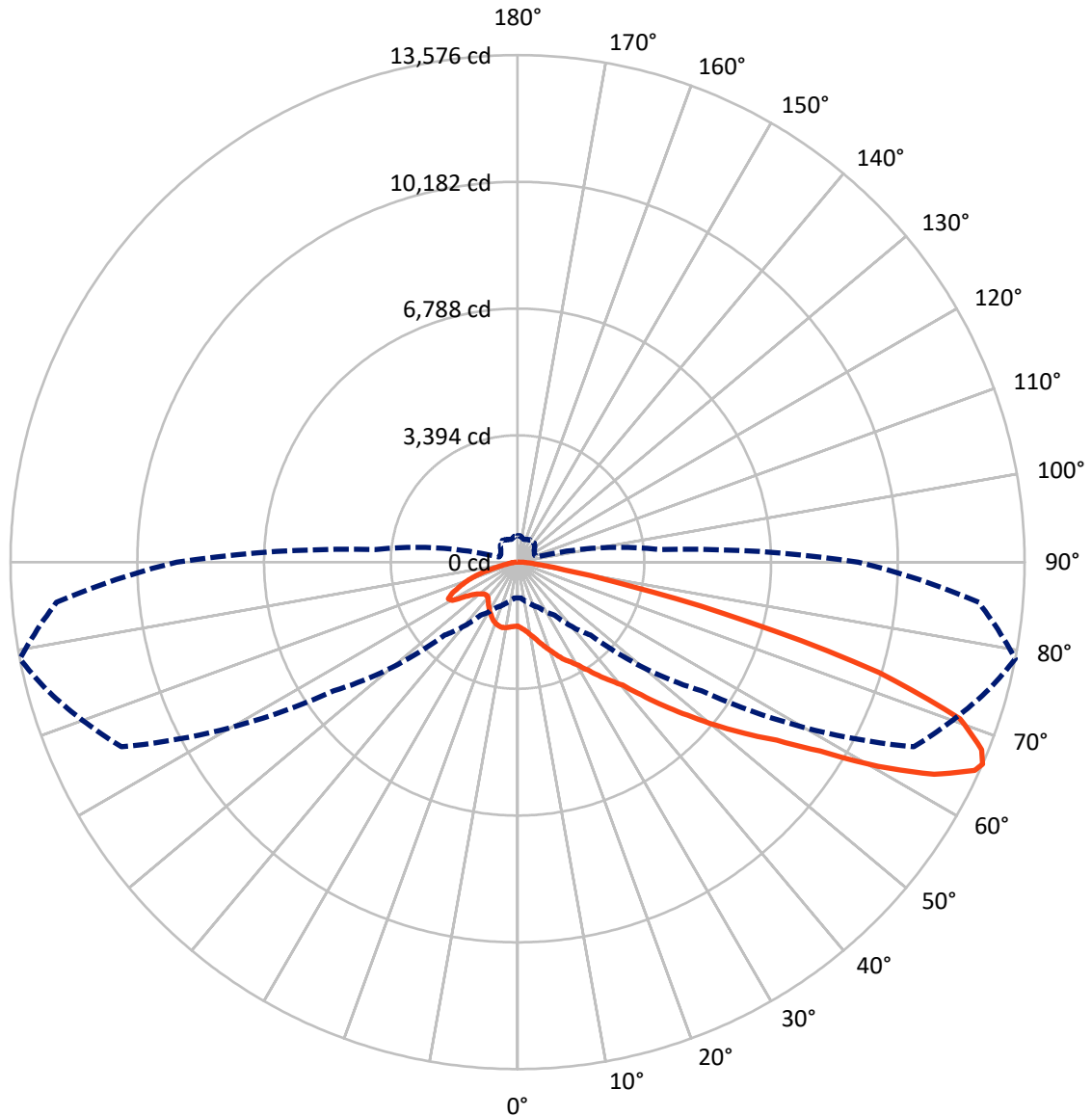
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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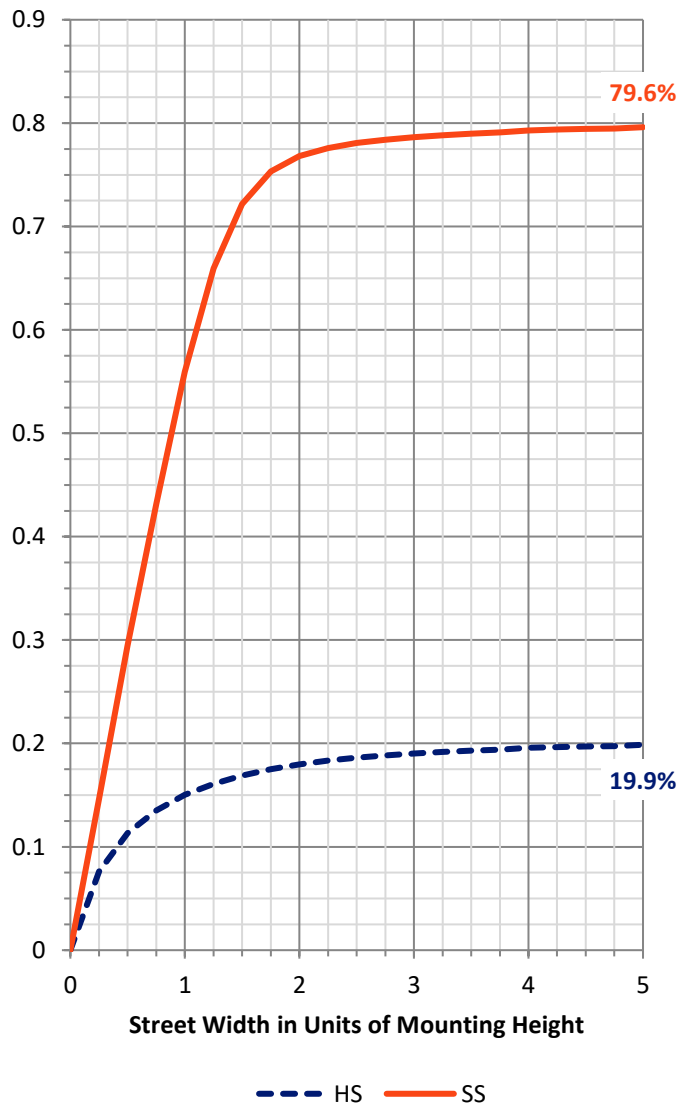
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2743.6	0.0	2743.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	10843.0	0.0	10843.0
	% Fixture	79.8	0.0	79.8
Total	Lumens	13586.7	0.0	13586.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	1.2
10°-20°	520.9	3.8
20°-30°	894.2	6.6
30°-40°	1381.3	10.2
40°-50°	2212.6	16.3
50°-60°	3303.5	24.3
60°-70°	3394.3	25.0
70°-80°	1504.7	11.1
80°-90°	206.4	1.5
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°	13586.7	100.0
0°-180°	13586.7	100.0

Coefficient of Utilization



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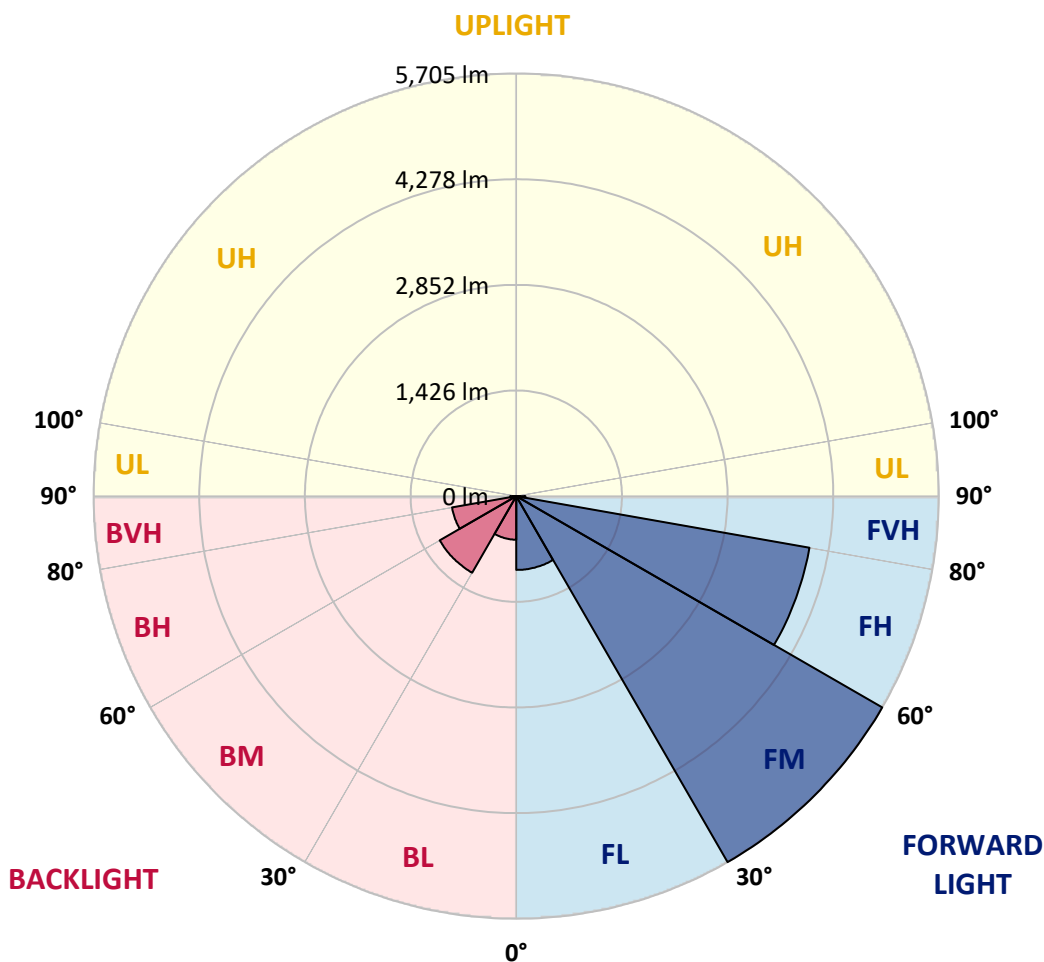
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	996.0	7.3			
FM (30°-60°)	5704.6	42.0			
FH (60°-80°)	4018.6	29.6			G2/5000
FVH (80°-90°)	123.8	0.9			G2/225
BL (0°-30°)	587.8	4.3	B2/1000		
BM (30°-60°)	1192.8	8.8	B2/2500		
BH (60°-80°)	880.4	6.5	B2/1000		G2/1000
BVH (80°-90°)	82.6	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6
2.5°	1824.7	1826.2	1826.2	1820.2	1821.7	1826.2	1809.8	1773.9	1773.9	1767.9	1757.5
5°	1936.8	1929.3	1918.9	1920.4	1914.4	1914.4	1896.4	1862.1	1832.2	1820.2	1788.8
7.5°	1951.7	1959.2	1957.7	1975.6	1984.6	1984.6	1993.6	1965.2	1920.4	1892.0	1860.6
10°	1981.6	1962.2	1960.7	2002.5	2016.0	2047.4	2083.2	2068.3	2030.9	1990.6	1948.7
12.5°	1999.6	2011.5	2011.5	2032.4	2063.8	2110.1	2172.9	2201.3	2143.0	2101.2	2036.9
15°	2026.5	2010.0	2057.8	2075.8	2135.6	2168.4	2258.1	2331.3	2292.5	2241.7	2140.0
17.5°	2038.4	2028.0	2054.9	2087.7	2189.4	2238.7	2347.8	2449.4	2416.5	2383.6	2279.0
20°	2099.7	2098.2	2110.1	2137.0	2210.3	2307.4	2443.4	2583.9	2595.8	2536.1	2394.1
22.5°	2249.1	2229.7	2229.7	2219.2	2250.6	2350.8	2534.6	2728.8	2782.6	2712.4	2524.1
25°	2386.6	2413.5	2397.1	2349.3	2337.3	2389.6	2600.3	2882.8	2954.5	2888.8	2700.5
27.5°	2563.0	2571.9	2600.3	2536.1	2453.9	2470.3	2672.1	2969.5	3117.4	3029.2	2800.6
30°	2817.0	2800.6	2794.6	2722.9	2615.3	2592.9	2754.3	3096.5	3331.1	3207.1	2918.6
32.5°	2988.9	3029.2	3027.7	2929.1	2799.1	2749.8	2855.9	3216.0	3559.8	3444.7	3136.8
35°	3329.6	3371.5	3338.6	3193.6	3041.2	2942.6	3002.3	3371.5	3821.3	3731.6	3322.1
37.5°	3764.5	3863.1	3792.9	3525.4	3310.2	3202.6	3205.6	3540.3	4088.8	4015.6	3520.9
40°	4064.9	4197.9	4100.7	3849.7	3621.0	3519.4	3479.1	3740.6	4408.6	4330.9	3831.7
42.5°	4437.0	4547.6	4496.8	4248.7	3981.2	3894.5	3813.8	4075.3	4897.3	4861.4	4230.8
45°	4843.5	4895.8	4879.3	4722.4	4425.0	4395.1	4217.3	4516.2	5472.6	5487.6	4729.9
47.5°	5221.6	5250.0	5281.3	5167.8	4982.5	5007.9	4682.1	4988.4	6031.6	6130.2	5285.8
50°	5318.7	5415.8	5489.1	5565.3	5605.6	5777.5	5194.7	5568.3	6674.2	6865.5	5904.5
52.5°	5220.1	5212.6	5435.3	5674.4	6077.9	6438.0	5892.6	6288.6	7242.1	7620.1	6470.9
55°	4771.7	4756.8	5115.5	5432.3	6219.9	6805.7	6889.4	7248.0	7928.0	8419.7	7237.6
57.5°	3987.2	3894.5	4286.1	4806.1	5912.0	6846.0	7890.6	8672.2	8983.1	9543.5	8407.7
60°	2679.5	2640.7	3015.8	3636.0	4800.1	6273.7	8489.9	10455.1	10470.0	11100.7	10223.5
62.5°	1649.9	1657.3	1897.9	2362.7	3361.0	4973.5	8231.4	11879.3	11882.3	12514.4	11717.9
65°	1079.0	1083.5	1277.7	1534.8	2099.7	3372.9	6807.2	11991.4	12864.1	13451.4	12402.4
66°	960.9	962.4	1129.8	1339.0	1739.5	2760.2	6012.1	11700.0	13085.3	13575.5	12393.4
67.5°	810.0	829.4	963.9	1125.3	1357.0	1983.1	4770.3	10857.1	12971.7	13402.1	12112.4
70°	633.6	644.1	750.2	914.6	1017.7	1147.7	2835.0	8850.1	11873.3	12571.2	11090.2
72.5°	508.1	517.1	597.8	742.7	826.4	756.2	1543.8	6421.6	9379.1	10123.3	8723.0
75°	428.9	430.4	469.3	584.3	680.0	567.9	821.9	4121.7	6018.1	6364.8	5344.1
77.5°	346.7	352.7	379.6	445.3	547.0	446.8	490.2	2308.9	3021.8	3047.2	2470.3
80°	282.4	285.4	301.9	324.3	416.9	330.3	331.8	1126.8	1295.7	1265.8	1004.3
82.5°	222.7	225.7	245.1	240.6	306.4	236.1	206.2	542.5	596.3	584.3	461.8
85°	125.5	125.5	192.8	192.8	194.3	149.4	125.5	255.5	315.3	294.4	216.7
87.5°	40.3	41.8	58.3	61.3	97.1	67.2	61.3	95.6	149.4	131.5	77.7
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°	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6
2.5°	1751.5	1727.6	1717.1	1682.7	1673.8	1651.4	1640.9	1627.4	1623.0	1603.5	1621.5
5°	1764.9	1757.5	1715.6	1672.3	1639.4	1624.5	1602.0	1572.2	1569.2	1542.3	1539.3
7.5°	1821.7	1796.3	1723.1	1676.8	1611.0	1573.6	1524.3	1509.4	1490.0	1481.0	1500.4
10°	1909.9	1845.6	1736.5	1620.0	1539.3	1494.4	1458.6	1448.1	1449.6	1443.6	1434.7
12.5°	1972.7	1911.4	1714.1	1572.2	1467.5	1424.2	1421.2	1431.7	1448.1	1440.6	1451.1
15°	2062.3	1947.3	1697.7	1492.9	1409.3	1397.3	1395.8	1427.2	1425.7	1425.7	1424.2
17.5°	2146.0	1983.1	1637.9	1424.2	1348.0	1357.0	1367.4	1365.9	1380.9	1386.8	1397.3
20°	2252.1	2025.0	1554.2	1355.5	1301.7	1298.7	1297.2	1298.7	1313.6	1322.6	1315.1
22.5°	2344.8	2033.9	1484.0	1289.7	1246.4	1234.4	1215.0	1234.4	1226.9	1229.9	1238.9
25°	2425.5	2035.4	1383.9	1240.4	1191.1	1164.2	1149.2	1147.7	1134.3	1132.8	1132.8
27.5°	2492.7	1984.6	1295.7	1171.6	1125.3	1099.9	1098.4	1082.0	1047.6	1025.2	1028.2
30°	2545.0	1945.8	1234.4	1111.9	1067.0	1062.5	1049.1	1011.7	966.9	938.5	938.5
32.5°	2637.7	1868.0	1150.7	1050.6	1028.2	1022.2	990.8	957.9	916.1	889.2	884.7
35°	2706.4	1796.3	1095.4	998.3	987.8	975.9	949.0	913.1	901.1	895.2	899.7
37.5°	2784.1	1715.6	1028.2	953.5	963.9	941.5	910.1	893.7	935.5	925.1	929.5
40°	2908.2	1658.8	962.4	926.6	937.0	911.6	871.3	865.3	917.6	880.2	871.3
42.5°	3135.3	1657.3	922.1	886.2	893.7	874.2	838.4	835.4	856.3	811.5	798.0
45°	3417.8	1709.6	892.2	856.3	850.3	847.3	835.4	821.9	804.0	745.7	730.8
47.5°	3755.5	1794.8	886.2	811.5	819.0	844.4	829.4	795.0	748.7	711.4	703.9
50°	4165.0	1971.2	871.3	778.6	792.1	832.4	820.4	772.6	730.8	706.9	702.4
52.5°	4617.8	2193.8	851.8	727.8	757.7	821.9	827.9	783.1	721.8	700.9	697.9
55°	5151.3	2522.6	829.4	672.5	717.3	811.5	827.9	753.2	709.9	709.9	706.9
57.5°	6204.9	3114.4	783.1	621.7	681.5	792.1	804.0	754.7	711.4	711.4	705.4
60°	7750.2	4038.0	694.9	582.8	647.1	765.2	786.1	732.3	694.9	703.9	702.4
62.5°	8959.2	4318.9	620.2	545.5	612.7	715.8	762.2	708.4	675.5	708.4	711.4
65°	9217.7	4035.0	544.0	505.1	564.9	668.0	727.8	674.0	647.1	711.4	714.3
66°	9125.0	3813.8	517.1	493.2	544.0	644.1	706.9	662.0	632.1	708.4	709.9
67.5°	8712.6	3482.0	487.2	467.8	515.6	609.7	683.0	645.6	608.2	699.4	685.9
70°	7815.9	2953.0	436.4	422.9	475.2	552.9	627.7	603.8	570.9	644.1	620.2
72.5°	6019.6	2359.7	382.6	384.1	428.9	494.7	572.4	555.9	527.5	564.9	550.0
75°	3665.9	1507.9	333.3	336.2	373.6	439.4	520.1	508.1	473.7	494.7	487.2
77.5°	1624.5	747.2	281.0	286.9	316.8	387.1	452.8	433.4	397.5	402.0	399.0
80°	630.7	354.2	228.6	236.1	255.5	309.3	375.1	357.2	325.8	319.8	316.8
82.5°	303.4	197.3	176.3	179.3	186.8	246.6	322.8	300.4	258.5	231.6	231.6
85°	152.4	122.5	124.0	113.6	124.0	167.4	218.2	182.3	150.9	134.5	137.5
87.5°	61.3	61.3	61.3	52.3	55.3	79.2	101.6	68.7	62.8	37.4	37.4
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)