

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: P478060

Luminaire Tested: **IFLD-M-SA4B-727-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478060
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-727-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

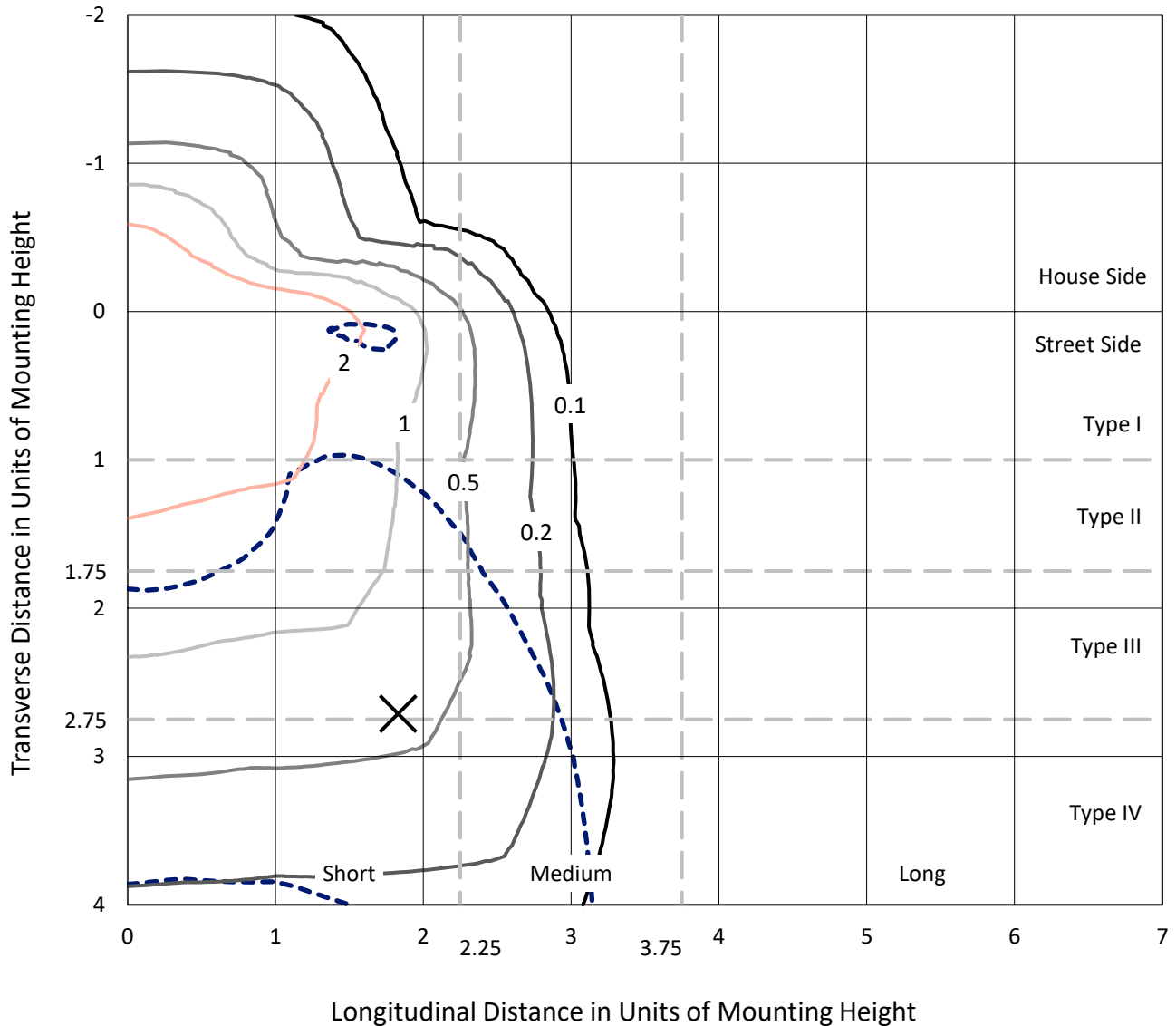
Lumens per Lamp: N/A
Luminaire Lumens: 19568.4 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

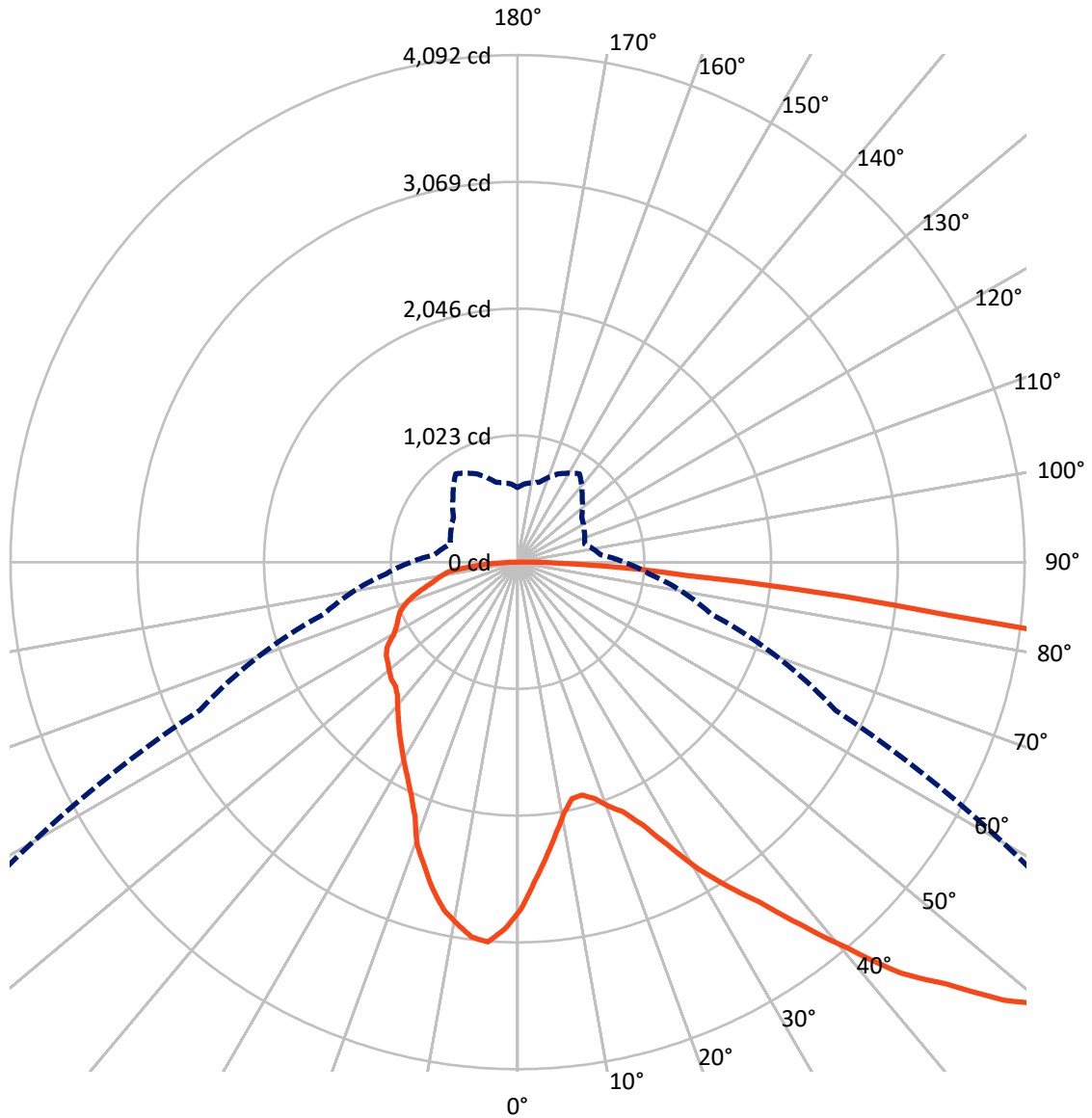
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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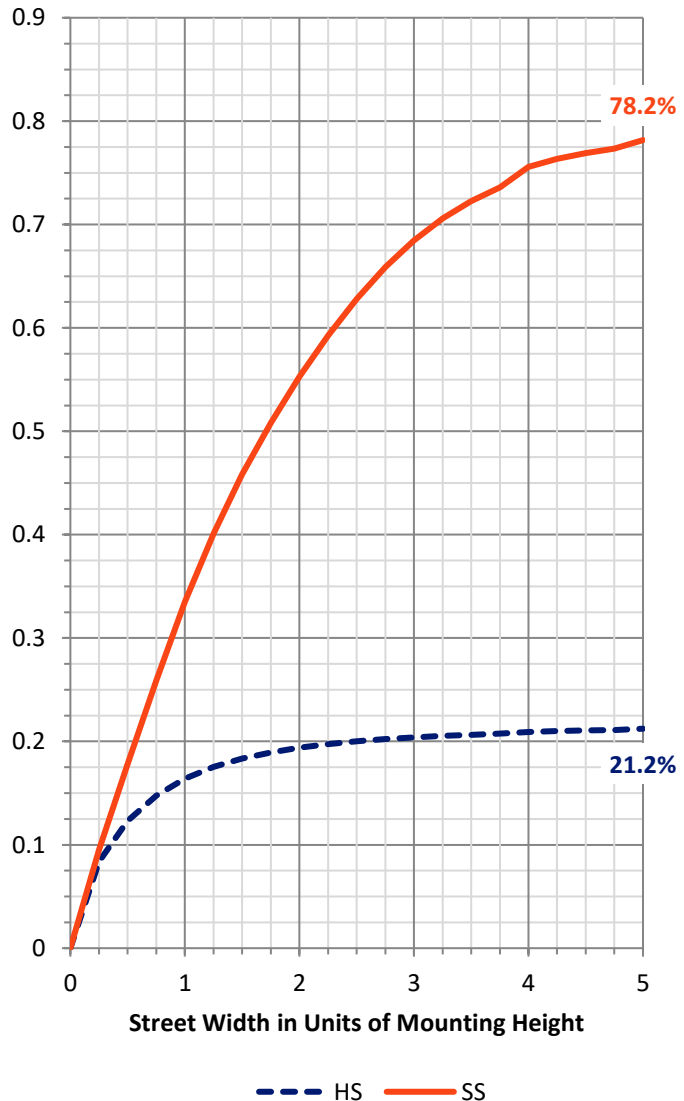
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4227.0	0.0	4227.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	15341.4	0.0	15341.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	19568.4	0.0	19568.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.9	1.3
10°-20°	724.6	3.7
20°-30°	1192.6	6.1
30°-40°	1783.6	9.1
40°-50°	2644.1	13.5
50°-60°	3810.4	19.5
60°-70°	4862.6	24.8
70°-80°	3783.9	19.3
80°-90°	507.6	2.6
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°	19568.4	100.0
0°-180°	19568.4	100.0

Coefficient of Utilization



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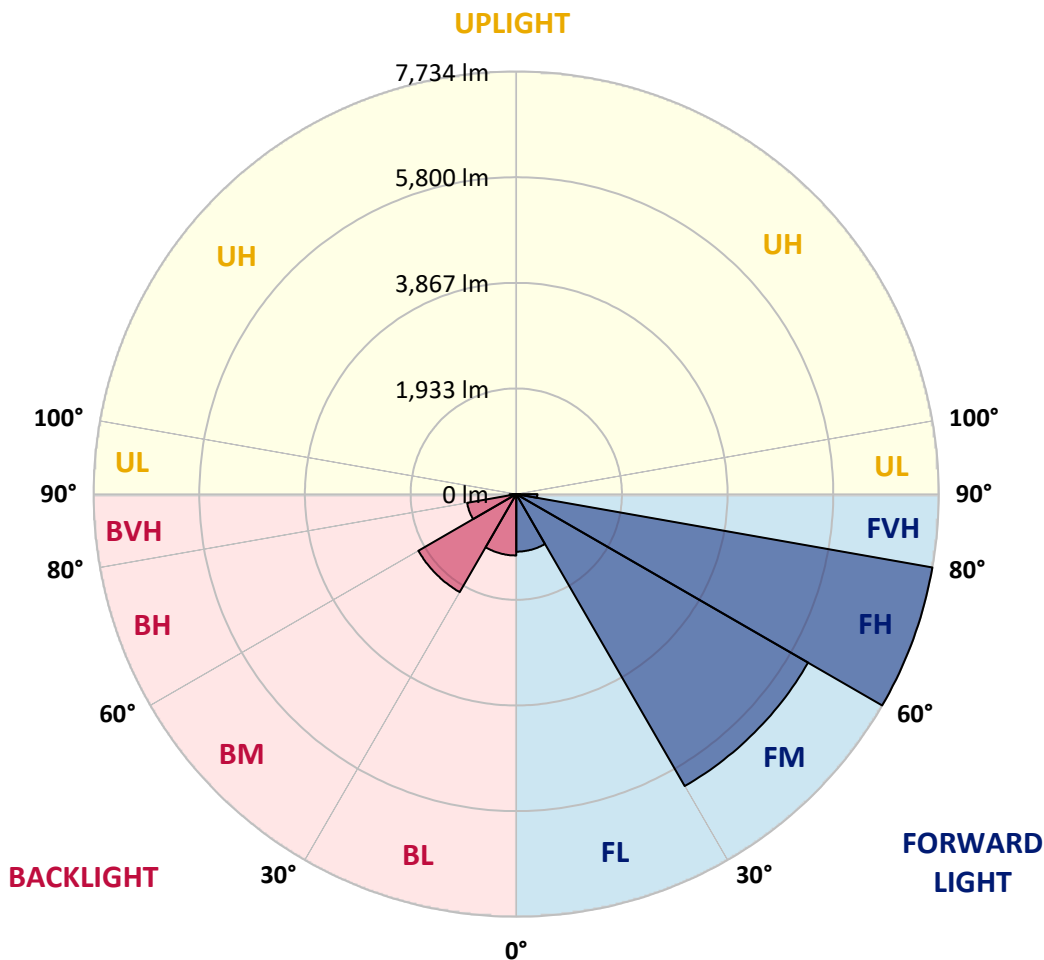
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1053.1	5.4			
FM (30°-60°)	6168.1	31.5			
FH (60°-80°)	7733.8	39.5			G4/12000
FVH (80°-90°)	386.4	2.0			G3/500
BL (0°-30°)	1123.1	5.7	B3/2500		
BM (30°-60°)	2070.0	10.6	B2/2500		
BH (60°-80°)	912.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	121.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2805.4	2805.4	2805.4	2805.4	2805.4	2805.4	2805.4	2805.4	2805.4	2805.4	2805.4
2.5°	2513.7	2522.0	2548.9	2555.1	2584.1	2567.5	2602.7	2664.8	2699.9	2751.6	2813.7
5°	2315.1	2279.9	2296.5	2360.6	2393.7	2402.0	2439.2	2544.8	2611.0	2687.5	2803.4
7.5°	2081.3	2075.1	2108.2	2149.6	2215.8	2222.0	2304.8	2397.9	2534.4	2704.1	2840.6
10°	1922.0	1948.9	1967.5	2011.0	2056.5	2056.5	2162.0	2323.4	2478.6	2642.0	2848.9
12.5°	1913.7	1897.2	1901.3	1924.1	1957.2	1998.6	2097.9	2242.7	2439.2	2629.6	2884.1
15°	1940.6	1946.8	1909.6	1938.6	1951.0	1965.5	2075.1	2238.6	2414.4	2673.0	2944.1
17.5°	2083.4	2048.2	1990.3	1963.4	2006.8	2006.8	2081.3	2209.6	2418.6	2695.8	3031.0
20°	2195.1	2195.1	2099.9	2071.0	2102.0	2095.8	2147.5	2242.7	2439.2	2741.3	3128.2
22.5°	2383.4	2410.3	2253.0	2193.0	2191.0	2207.5	2253.0	2333.7	2497.2	2805.4	3221.3
25°	2654.4	2660.6	2478.6	2416.5	2350.3	2377.2	2385.5	2466.1	2548.9	2879.9	3326.8
27.5°	2956.5	2952.3	2784.8	2629.6	2586.1	2592.3	2546.8	2600.6	2625.4	2902.7	3477.8
30°	3291.6	3254.4	3128.2	2908.9	2873.7	2834.4	2735.1	2733.0	2784.8	3031.0	3686.8
32.5°	3510.9	3463.4	3376.5	3219.2	3122.0	3126.1	2968.9	2966.8	2921.3	3171.6	3868.9
35°	3726.1	3653.7	3630.9	3469.6	3372.3	3382.7	3256.5	3239.9	3157.2	3384.7	4168.9
37.5°	3984.7	3920.6	3955.8	3833.7	3713.7	3664.0	3606.1	3585.4	3477.8	3684.7	4578.5
40°	4270.2	4249.5	4226.8	4166.8	4094.4	4098.5	4036.4	4015.8	3856.4	4046.8	4971.6
42.5°	4655.0	4576.4	4458.5	4497.8	4535.0	4574.4	4553.7	4499.9	4334.4	4415.1	5410.2
45°	5013.0	4909.5	4692.3	4704.7	4857.8	4888.8	5139.2	5133.0	4799.9	4882.6	5908.8
47.5°	5255.0	5207.4	5077.1	5062.6	5281.9	5279.9	5730.9	5730.9	5290.2	5348.1	6444.7
50°	5615.0	5490.9	5435.0	5507.4	5619.2	5695.7	6335.0	6374.3	5772.3	5834.3	7146.0
52.5°	6037.1	5881.9	5741.2	5927.4	6126.0	6175.7	6932.9	6916.4	6142.6	6399.1	7967.4
55°	6386.7	6308.1	6210.9	6318.5	6643.3	6705.3	7532.9	7379.8	6512.9	6866.7	8362.5
57.5°	6794.3	6841.9	6862.6	6835.7	7222.6	7319.8	8217.7	7779.1	6831.5	7181.2	8594.3
60°	7408.8	7437.7	7464.6	7528.8	7938.4	8075.0	8759.8	8279.8	7032.2	7363.2	8612.9
62.5°	8343.9	8232.2	8292.2	8513.6	8842.5	8997.7	9558.4	8631.5	7185.3	7472.9	8004.6
65°	9413.5	9262.5	9200.4	9486.0	10338.3	10214.2	10555.6	8894.2	6963.9	7063.3	6788.1
67.5°	10497.6	10514.2	10354.9	10928.0	11972.8	11972.8	11482.4	9020.4	6364.0	5724.7	4760.6
70°	11358.3	11410.0	11496.9	12607.9	14263.1	14513.4	12630.7	8503.2	5141.2	3810.9	2602.7
72.5°	11345.9	11190.7	11635.5	13681.7	16344.4	16135.4	12870.7	6724.0	3208.9	1866.2	1193.8
73°	11091.4	10961.1	11447.3	13671.4	16429.2	16232.7	12694.8	6198.5	2830.3	1617.9	1061.4
75°	9057.7	8821.8	9649.4	12382.4	15200.3	15351.3	10785.2	4042.6	1551.7	997.2	746.9
77.5°	4129.5	4233.0	5310.9	8306.7	11714.2	11892.1	7090.2	1748.2	850.3	699.3	550.3
80°	1326.2	1392.4	2066.8	4129.5	7342.6	7663.2	3277.2	794.5	606.2	535.8	411.7
82.5°	506.9	504.8	866.9	1717.2	3479.9	3684.7	1197.9	484.1	451.0	395.2	291.7
85°	177.9	186.2	326.9	678.6	1369.6	1433.8	415.9	269.0	312.4	264.8	167.6
87.5°	62.1	64.1	115.9	246.2	471.7	498.6	115.9	107.6	155.2	153.1	84.8
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°	2805.4	2805.4	2805.4	2805.4	2805.4	2805.4	2805.4	2805.4	2805.4	2805.4	2805.4
2.5°	2834.4	2853.0	2859.2	2933.7	2933.7	2933.7	2962.7	2962.7	2954.4	2933.7	2983.4
5°	2846.8	2879.9	2944.1	3008.2	3024.7	3039.2	3078.5	3045.4	3057.8	3037.2	3055.8
7.5°	2882.0	2927.5	3047.5	3086.8	3059.9	3091.0	3049.6	3026.8	3004.1	3012.3	2983.4
10°	2942.0	2999.9	3055.8	3128.2	3076.5	3045.4	2960.6	2939.9	2867.5	2842.7	2865.4
12.5°	3016.5	3086.8	3182.0	3155.1	3055.8	2966.8	2875.8	2788.9	2745.4	2683.4	2699.9
15°	3091.0	3171.6	3186.1	3140.6	3016.5	2904.7	2739.2	2617.2	2573.7	2517.9	2546.8
17.5°	3171.6	3248.2	3223.4	3105.4	2937.9	2768.2	2579.9	2459.9	2368.9	2333.7	2333.7
20°	3291.6	3328.9	3289.6	3047.5	2842.7	2619.2	2437.2	2300.6	2209.6	2195.1	2172.4
22.5°	3384.7	3444.7	3268.9	2962.7	2704.1	2424.8	2215.8	2164.1	2137.2	2114.4	2085.5
25°	3504.7	3502.7	3231.6	2884.1	2466.1	2193.0	2066.8	2062.7	2050.3	2042.0	2081.3
27.5°	3618.5	3570.9	3188.2	2689.6	2219.9	2017.2	1948.9	1994.4	2013.0	2000.6	2017.2
30°	3798.5	3719.9	3126.1	2482.7	2002.7	1839.3	1851.7	1913.7	1944.8	1963.4	1938.6
32.5°	3988.9	3868.9	2997.9	2267.5	1810.3	1727.5	1756.5	1820.6	1857.9	1878.6	1901.3
35°	4264.0	3984.7	2867.5	1986.2	1671.7	1659.3	1675.8	1711.0	1764.8	1779.3	1785.5
37.5°	4603.3	4160.6	2691.7	1760.6	1564.1	1578.6	1595.1	1607.5	1609.6	1636.5	1626.2
40°	4942.6	4309.5	2435.1	1545.5	1452.4	1531.0	1522.7	1500.0	1481.3	1456.5	1450.3
42.5°	5240.5	4439.9	2149.6	1363.4	1353.1	1481.3	1454.4	1396.5	1353.1	1334.4	1303.4
45°	5575.7	4624.0	1862.0	1249.6	1276.5	1421.3	1413.1	1324.1	1268.2	1202.0	1193.8
47.5°	6010.2	4816.4	1586.9	1131.7	1204.1	1398.6	1402.7	1288.9	1208.2	1119.3	1106.9
50°	6566.7	5093.7	1377.9	1082.0	1160.7	1365.5	1371.7	1241.3	1135.8	1044.8	1036.5
52.5°	7100.5	5377.1	1204.1	1005.5	1131.7	1326.2	1340.7	1197.9	1075.8	962.0	968.2
55°	7369.5	5273.7	1055.1	949.6	1065.5	1262.0	1315.8	1166.9	984.8	906.2	904.1
57.5°	7429.5	5019.2	937.2	891.7	1009.6	1193.8	1274.4	1073.8	943.4	877.2	868.9
60°	7232.9	4574.4	844.1	829.6	939.3	1123.4	1179.3	1024.1	902.0	848.3	835.8
62.5°	6748.8	4113.0	780.0	800.7	879.3	1046.9	1119.3	988.9	862.7	825.5	798.6
65°	5534.3	3382.7	728.3	744.8	817.2	972.4	1082.0	949.6	827.6	792.4	790.3
67.5°	3833.7	2331.7	686.9	717.9	767.6	918.6	1044.8	906.2	782.0	769.6	753.1
70°	1963.4	1243.4	633.1	657.9	713.8	850.3	978.6	860.7	734.5	732.4	711.7
72.5°	995.1	728.3	571.0	608.3	647.6	761.4	895.8	800.7	674.5	651.7	618.6
73°	860.7	674.5	560.7	593.8	631.0	736.5	871.0	786.2	666.2	633.1	602.1
75°	626.9	531.7	502.7	535.8	564.8	664.1	788.3	720.0	612.4	577.2	548.3
77.5°	469.6	409.6	417.9	455.2	480.0	573.1	701.4	651.7	554.5	506.9	494.5
80°	345.5	312.4	345.5	380.7	399.3	504.8	639.3	564.8	467.6	413.8	403.4
82.5°	246.2	227.6	266.9	289.6	297.9	417.9	575.2	451.0	353.8	283.4	260.7
85°	140.7	138.6	180.0	177.9	184.1	244.1	378.6	300.0	227.6	173.8	169.7
87.5°	62.1	68.3	91.0	72.4	76.5	115.9	161.4	111.7	93.1	51.7	39.3
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)