

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: P476775

Luminaire Tested: **IFLD-M-SA4D-830-U-T2**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P476775
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

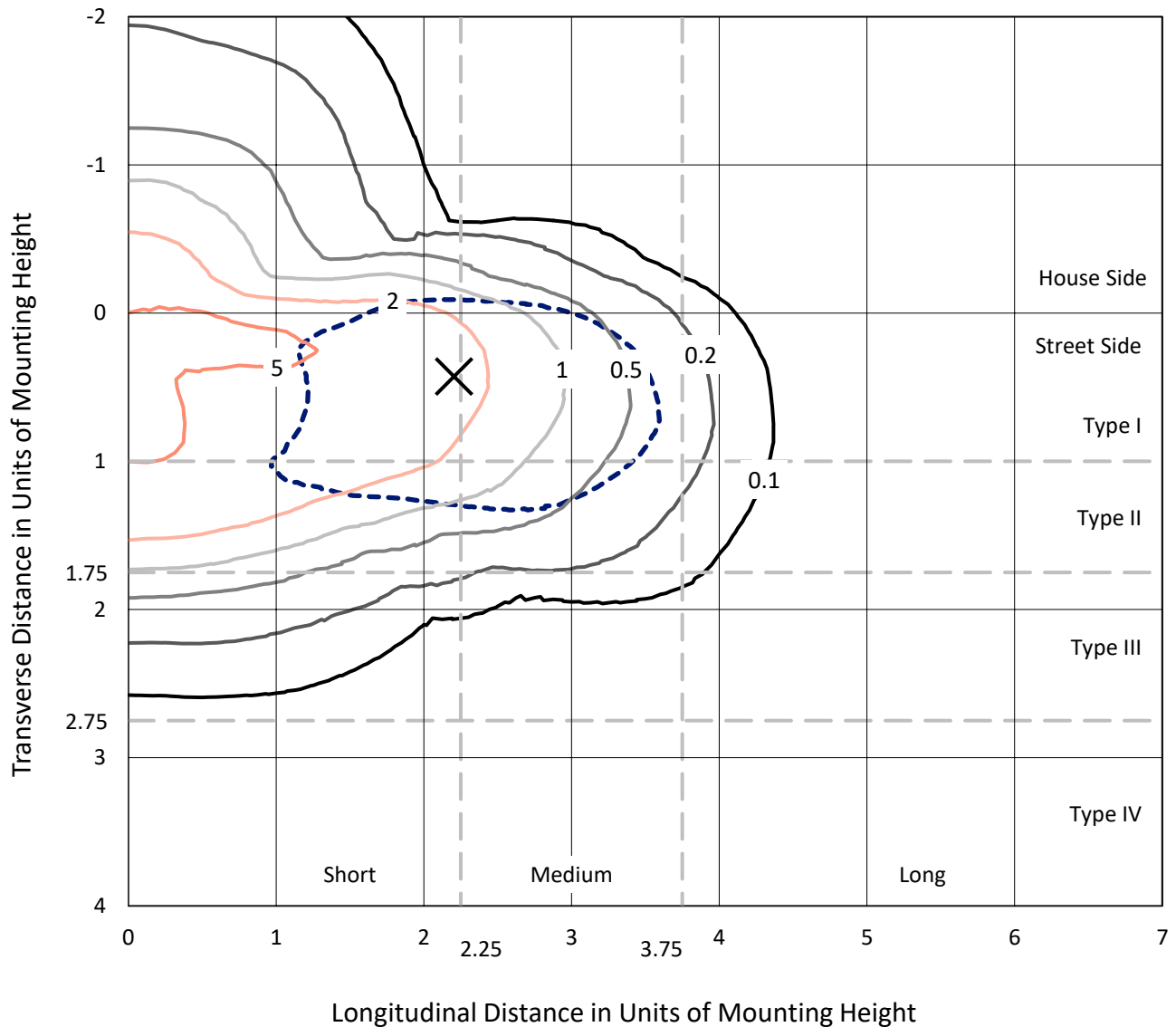
Lumens per Lamp: N/A
Luminaire Lumens: 24828.2 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 249.7
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

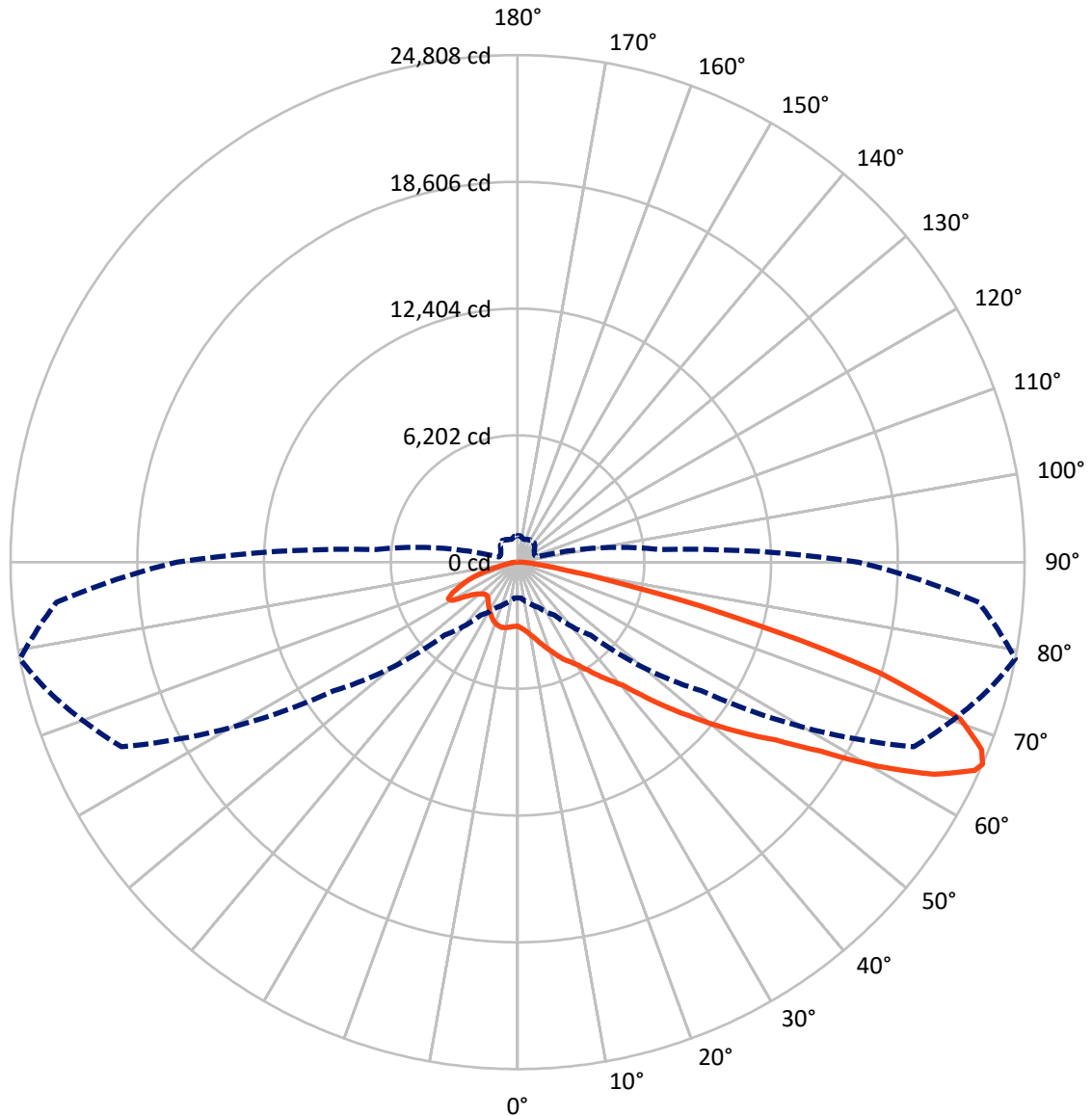
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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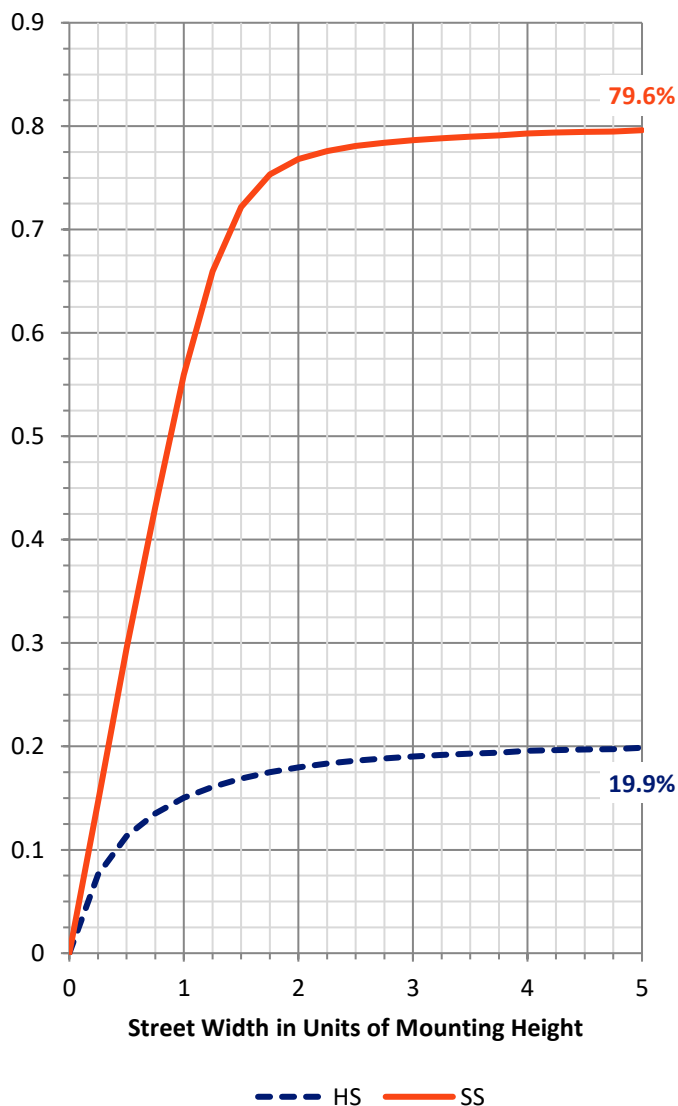
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5013.7	0.0	5013.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	19814.5	0.0	19814.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	24828.2	0.0	24828.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.3	1.2
10°-20°	951.9	3.8
20°-30°	1634.0	6.6
30°-40°	2524.2	10.2
40°-50°	4043.2	16.3
50°-60°	6036.8	24.3
60°-70°	6202.8	25.0
70°-80°	2749.6	11.1
80°-90°	377.3	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°	24828.2	100.0
0°-180°	24828.2	100.0

Coefficient of Utilization



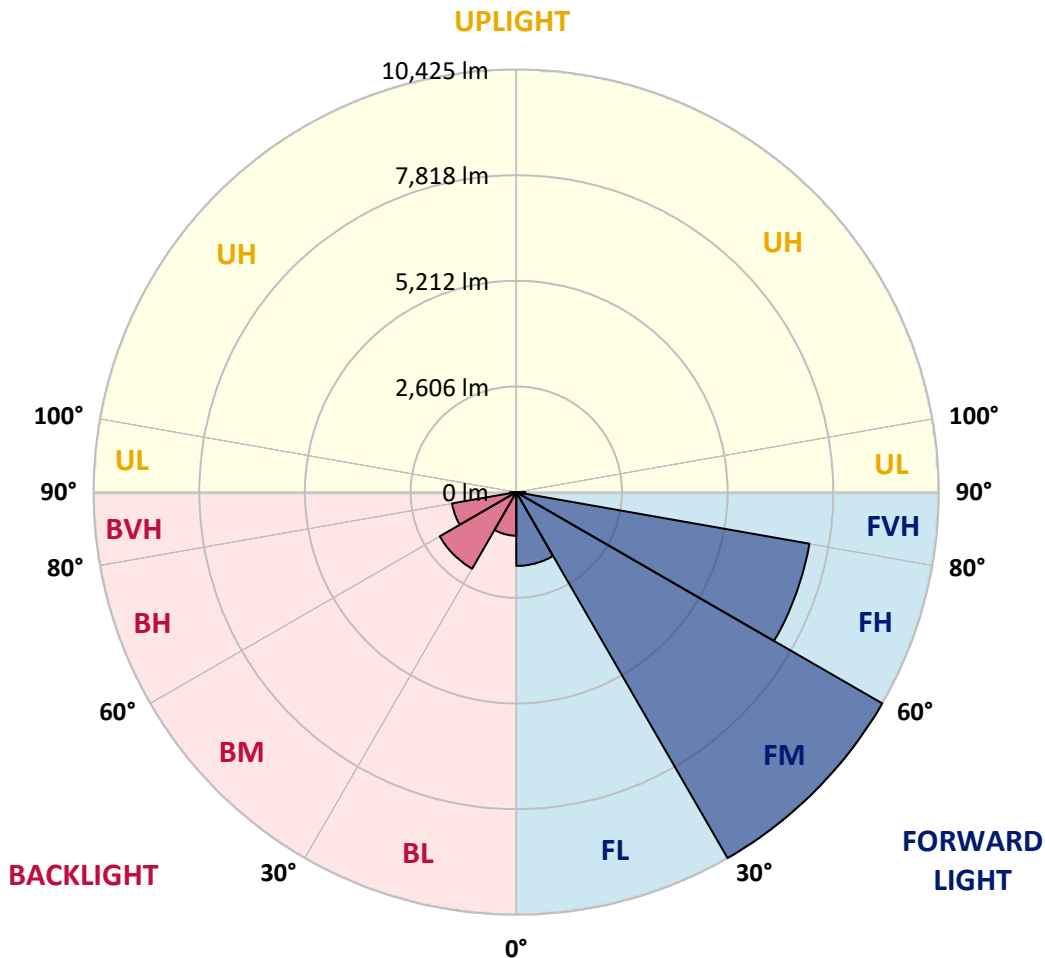
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1820.1	7.3			
FM (30°-60°)	10424.5	42.0			
FH (60°-80°)	7343.6	29.6			G3/7500
FVH (80°-90°)	226.3	0.9			G3/500
BL (0°-30°)	1074.2	4.3	B3/2500		
BM (30°-60°)	2179.7	8.8	B2/2500		
BH (60°-80°)	1608.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	151.0	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3135.1	3135.1	3135.1	3135.1	3135.1	3135.1	3135.1	3135.1	3135.1	3135.1	3135.1
2.5°	3334.5	3337.2	3337.2	3326.3	3329.0	3337.2	3307.2	3241.6	3241.6	3230.7	3211.6
5°	3539.3	3525.6	3506.5	3509.3	3498.3	3498.3	3465.6	3402.7	3348.1	3326.3	3268.9
7.5°	3566.6	3580.3	3577.5	3610.3	3626.7	3626.7	3643.1	3591.2	3509.3	3457.4	3400.0
10°	3621.2	3585.7	3583.0	3659.5	3684.0	3741.4	3806.9	3779.6	3711.3	3637.6	3561.1
12.5°	3654.0	3675.8	3675.8	3714.1	3771.4	3856.1	3970.8	4022.7	3916.2	3839.7	3722.3
15°	3703.1	3673.1	3760.5	3793.3	3902.5	3962.6	4126.4	4260.3	4189.3	4096.4	3910.7
17.5°	3725.0	3705.9	3755.0	3815.1	4000.8	4090.9	4290.3	4476.0	4415.9	4355.8	4164.7
20°	3837.0	3834.2	3856.1	3905.2	4039.1	4216.6	4465.1	4721.8	4743.6	4634.4	4375.0
22.5°	4110.1	4074.6	4074.6	4055.4	4112.8	4295.8	4631.7	4986.7	5085.0	4956.6	4612.6
25°	4361.3	4410.5	4380.4	4293.0	4271.2	4366.8	4751.8	5268.0	5399.1	5278.9	4934.8
27.5°	4683.6	4699.9	4751.8	4634.4	4484.2	4514.2	4882.9	5426.4	5696.7	5535.6	5117.8
30°	5147.8	5117.8	5106.8	4975.8	4779.1	4738.2	5033.1	5658.5	6087.3	5860.6	5333.5
32.5°	5461.9	5535.6	5532.9	5352.6	5115.0	5024.9	5218.8	5877.0	6505.1	6294.8	5732.2
35°	6084.5	6161.0	6100.9	5836.0	5557.5	5377.2	5486.4	6161.0	6983.0	6819.1	6070.9
37.5°	6879.2	7059.5	6931.1	6442.3	6049.0	5852.4	5857.9	6469.6	7471.8	7338.0	6434.1
40°	7428.1	7671.2	7493.7	7034.9	6617.1	6431.4	6357.6	6835.5	8056.3	7914.3	7002.1
42.5°	8108.1	8310.2	8217.4	7764.0	7275.2	7116.8	6969.3	7447.3	8949.3	8883.7	7731.3
45°	8851.0	8946.5	8916.5	8629.8	8086.3	8031.7	7706.7	8252.9	10000.7	10028.0	8643.4
47.5°	9541.9	9593.8	9651.1	9443.6	9104.9	9151.4	8556.0	9115.9	11022.1	11202.3	9659.3
50°	9719.4	9896.9	10030.7	10170.0	10243.7	10557.8	9492.7	10175.5	12196.4	12545.9	10789.9
52.5°	9539.2	9525.5	9932.4	10369.4	11106.7	11764.9	10768.1	11491.8	13234.1	13925.0	11825.0
55°	8719.9	8692.6	9348.0	9927.0	11366.2	12436.7	12589.6	13245.0	14487.6	15386.1	13225.9
57.5°	7286.1	7116.8	7832.3	8782.7	10803.6	12510.4	14419.3	15847.6	16415.7	17439.8	15364.2
60°	4896.6	4825.6	5511.0	6644.4	8771.8	11464.5	15514.4	19105.6	19132.9	20285.4	18682.3
62.5°	3015.0	3028.6	3468.3	4317.6	6141.9	9088.6	15042.0	21708.2	21713.7	22868.9	21413.3
65°	1971.7	1979.9	2334.9	2804.7	3837.0	6163.7	12439.4	21913.0	23507.9	24581.2	22664.0
66°	1756.0	1758.7	2064.6	2446.9	3178.8	5044.0	10986.6	21380.5	23912.1	24807.8	22647.6
67.5°	1480.2	1515.7	1761.5	2056.4	2479.7	3624.0	8717.1	19840.2	23704.5	24491.0	22134.2
70°	1157.9	1177.0	1370.9	1671.3	1859.8	2097.4	5180.6	16172.6	21697.3	22972.6	20266.3
72.5°	928.5	944.9	1092.4	1357.3	1510.2	1381.9	2821.1	11734.8	17139.4	18499.4	15940.5
75°	783.8	786.5	857.5	1067.8	1242.6	1037.8	1502.0	7531.9	10997.5	11631.1	9765.8
77.5°	633.6	644.5	693.7	813.8	999.5	816.5	895.7	4219.3	5522.0	5568.4	4514.2
80°	516.1	521.6	551.6	592.6	761.9	603.5	606.3	2059.1	2367.7	2313.1	1835.2
82.5°	406.9	412.4	447.9	439.7	559.8	431.5	376.9	991.3	1089.6	1067.8	843.9
85°	229.4	229.4	352.3	352.3	355.0	273.1	229.4	467.0	576.2	538.0	396.0
87.5°	73.7	76.5	106.5	112.0	177.5	122.9	112.0	174.8	273.1	240.3	142.0
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°	3135.1	3135.1	3135.1	3135.1	3135.1	3135.1	3135.1	3135.1	3135.1	3135.1	3135.1
2.5°	3200.7	3157.0	3137.8	3075.0	3058.6	3017.7	2998.6	2974.0	2965.8	2930.3	2963.1
5°	3225.2	3211.6	3135.1	3055.9	2995.8	2968.5	2927.6	2872.9	2867.5	2818.3	2812.9
7.5°	3329.0	3282.6	3148.8	3064.1	2943.9	2875.7	2785.6	2758.2	2722.7	2706.4	2741.9
10°	3490.1	3372.7	3173.3	2960.3	2812.9	2730.9	2665.4	2646.3	2649.0	2638.1	2621.7
12.5°	3604.8	3492.9	3132.4	2872.9	2681.8	2602.6	2597.1	2616.2	2646.3	2632.6	2651.7
15°	3768.7	3558.4	3102.3	2728.2	2575.3	2553.4	2550.7	2608.0	2605.3	2605.3	2602.6
17.5°	3921.6	3624.0	2993.1	2602.6	2463.3	2479.7	2498.8	2496.1	2523.4	2534.3	2553.4
20°	4115.5	3700.4	2840.2	2477.0	2378.6	2373.2	2370.5	2373.2	2400.5	2416.9	2403.2
22.5°	4284.8	3716.8	2711.8	2356.8	2277.6	2255.8	2220.3	2255.8	2242.1	2247.6	2263.9
25°	4432.3	3719.5	2528.8	2266.7	2176.6	2127.4	2100.1	2097.4	2072.8	2070.0	2070.0
27.5°	4555.2	3626.7	2367.7	2141.1	2056.4	2010.0	2007.2	1977.2	1914.4	1873.4	1878.9
30°	4650.8	3555.7	2255.8	2031.8	1949.9	1941.7	1917.1	1848.8	1766.9	1715.0	1715.0
32.5°	4820.1	3413.7	2102.8	1919.8	1878.9	1868.0	1810.6	1750.5	1674.1	1624.9	1616.7
35°	4945.7	3282.6	2001.8	1824.3	1805.1	1783.3	1734.1	1668.6	1646.8	1635.8	1644.0
37.5°	5087.7	3135.1	1878.9	1742.3	1761.5	1720.5	1663.1	1633.1	1709.6	1690.4	1698.6
40°	5314.4	3031.3	1758.7	1693.2	1712.3	1665.9	1592.1	1581.2	1676.8	1608.5	1592.1
42.5°	5729.5	3028.6	1685.0	1619.4	1633.1	1597.6	1532.1	1526.6	1564.8	1482.9	1458.3
45°	6245.6	3124.2	1630.4	1564.8	1553.9	1548.4	1526.6	1502.0	1469.2	1362.7	1335.4
47.5°	6862.8	3279.9	1619.4	1482.9	1496.6	1543.0	1515.7	1452.9	1368.2	1299.9	1286.3
50°	7611.1	3602.1	1592.1	1422.8	1447.4	1521.1	1499.3	1411.9	1335.4	1291.7	1283.5
52.5°	8438.6	4009.0	1556.6	1330.0	1384.6	1502.0	1512.9	1431.0	1319.0	1280.8	1275.3
55°	9413.5	4609.8	1515.7	1228.9	1310.8	1482.9	1512.9	1376.4	1297.2	1297.2	1291.7
57.5°	11338.8	5691.3	1431.0	1136.1	1245.3	1447.4	1469.2	1379.1	1299.9	1299.9	1289.0
60°	14162.6	7379.0	1269.9	1065.1	1182.5	1398.2	1436.5	1338.2	1269.9	1286.3	1283.5
62.5°	16372.0	7892.4	1133.3	996.8	1119.7	1308.1	1392.8	1294.5	1234.4	1294.5	1299.9
65°	16844.4	7373.5	994.1	923.1	1032.3	1220.7	1330.0	1231.7	1182.5	1299.9	1305.4
66°	16675.1	6969.3	944.9	901.2	994.1	1177.0	1291.7	1209.8	1155.2	1294.5	1297.2
67.5°	15921.4	6363.1	890.3	854.8	942.2	1114.2	1248.0	1179.8	1111.5	1278.1	1253.5
70°	14282.8	5396.3	797.4	772.9	868.4	1010.4	1147.0	1103.3	1043.2	1177.0	1133.3
72.5°	11000.2	4312.1	699.1	701.9	783.8	903.9	1045.9	1015.9	964.0	1032.3	1005.0
75°	6699.0	2755.5	609.0	614.5	682.7	802.9	950.4	928.5	865.7	903.9	890.3
77.5°	2968.5	1365.5	513.4	524.3	579.0	707.3	827.5	792.0	726.4	734.6	729.2
80°	1152.5	647.2	417.8	431.5	467.0	565.3	685.5	652.7	595.3	584.4	579.0
82.5°	554.4	360.5	322.3	327.7	341.4	450.6	589.9	548.9	472.5	423.3	423.3
85°	278.6	223.9	226.7	207.6	226.7	305.9	398.7	333.2	275.8	245.8	251.2
87.5°	112.0	112.0	112.0	95.6	101.0	144.7	185.7	125.6	114.7	68.3	68.3
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)