

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: P478328

Luminaire Tested: **IFLD-S-SA6B-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478328
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

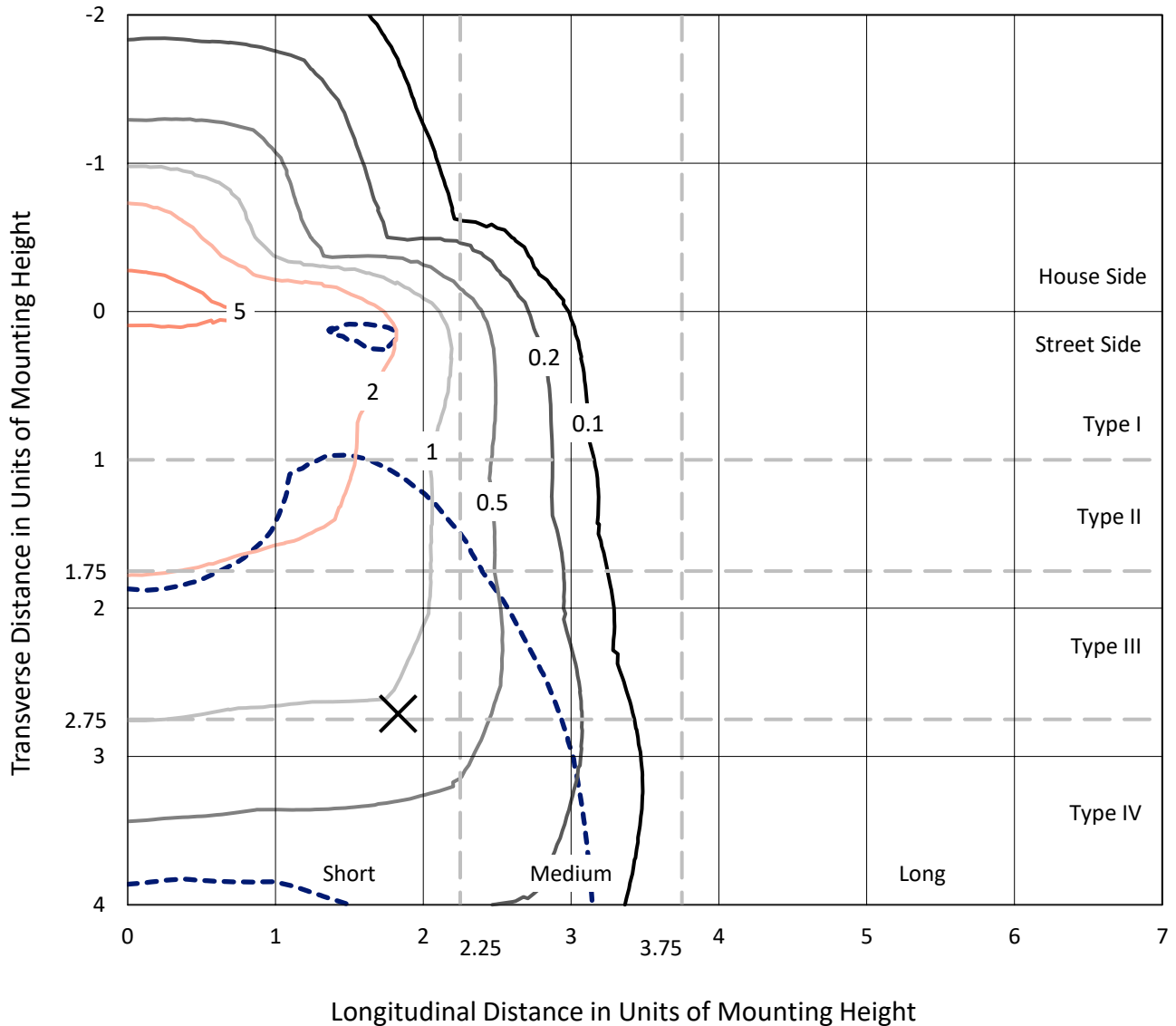
Lumens per Lamp: N/A
Luminaire Lumens: 27173.1 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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

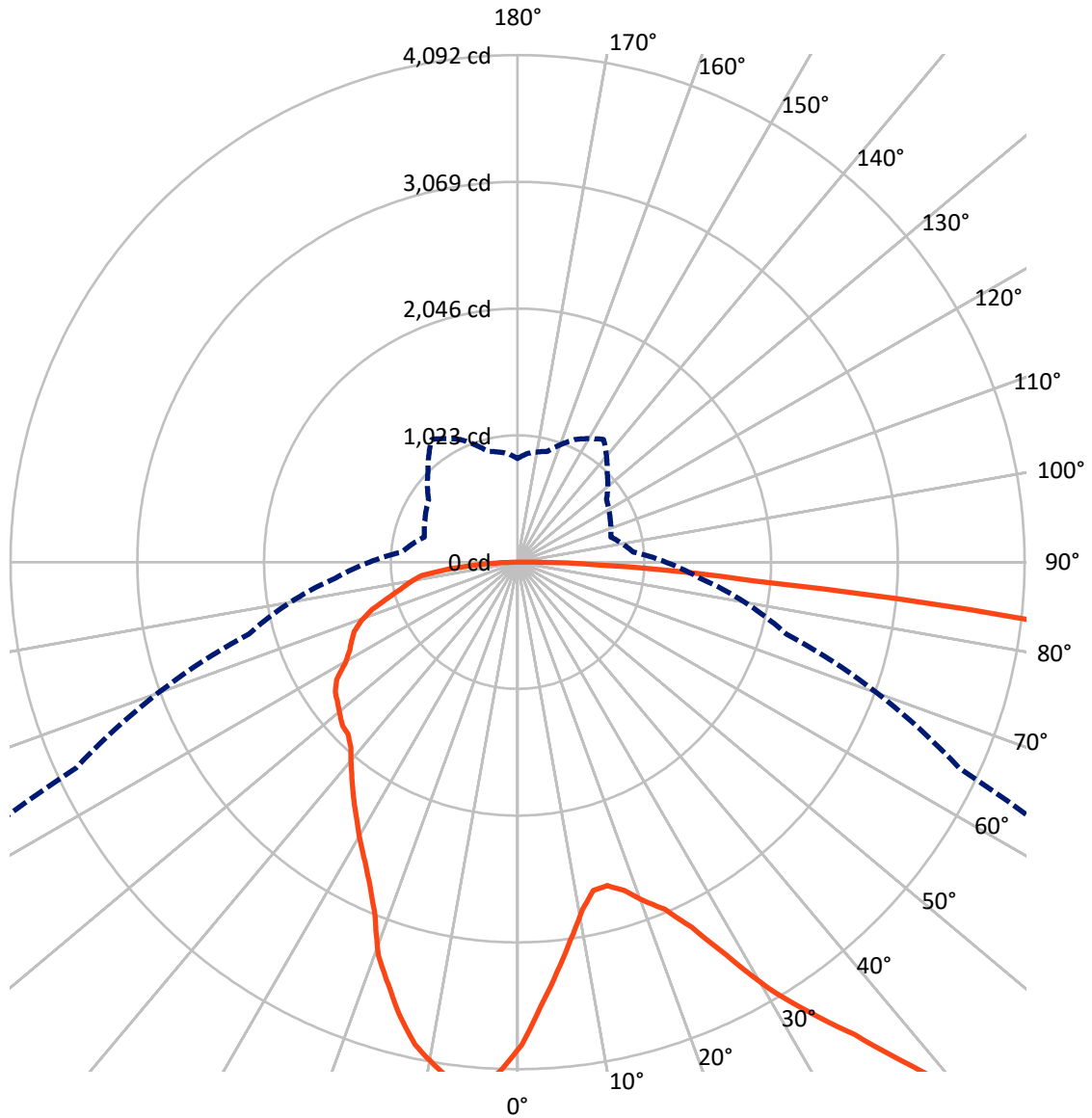
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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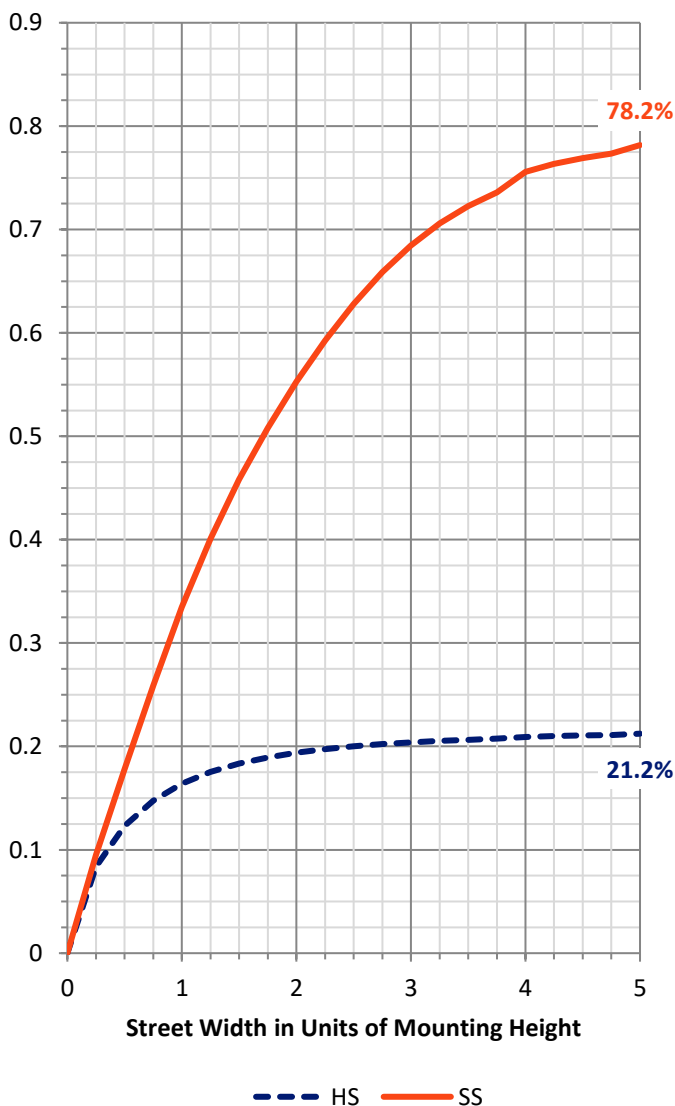
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5869.7	0.0	5869.7
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	21303.4	0.0	21303.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	27173.1	0.0	27173.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.6	1.3
10°-20°	1006.2	3.7
20°-30°	1656.1	6.1
30°-40°	2476.7	9.1
40°-50°	3671.6	13.5
50°-60°	5291.2	19.5
60°-70°	6752.3	24.8
70°-80°	5254.4	19.3
80°-90°	704.9	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°	27173.1	100.0
0°-180°	27173.1	100.0

Coefficient of Utilization



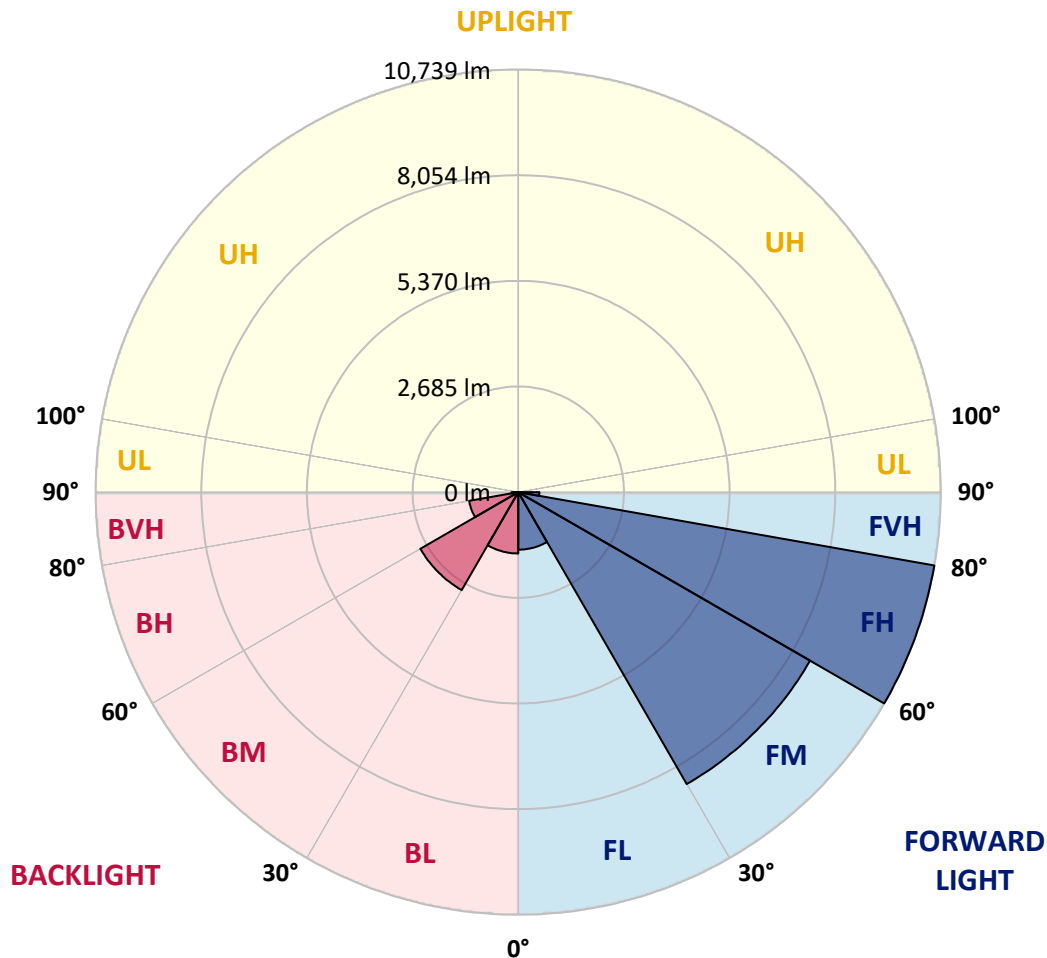
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1462.4	5.4			
FM (30°-60°)	8565.1	31.5			
FH (60°-80°)	10739.3	39.5			G4/12000
FVH (80°-90°)	536.6	2.0			G4/750
BL (0°-30°)	1559.5	5.7	B3/2500		
BM (30°-60°)	2874.4	10.6	B3/5000		
BH (60°-80°)	1267.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	168.4	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°	3895.7	3895.7	3895.7	3895.7	3895.7	3895.7	3895.7	3895.7	3895.7	3895.7	3895.7
2.5°	3490.6	3502.1	3539.4	3548.1	3588.3	3565.3	3614.1	3700.3	3749.2	3821.0	3907.2
5°	3214.8	3166.0	3188.9	3278.0	3324.0	3335.5	3387.2	3533.7	3625.6	3731.9	3892.8
7.5°	2890.2	2881.5	2927.5	2985.0	3076.9	3085.5	3200.4	3329.7	3519.3	3754.9	3944.5
10°	2668.9	2706.3	2732.2	2792.5	2855.7	2855.7	3002.2	3226.3	3441.8	3668.7	3956.0
12.5°	2657.5	2634.5	2640.2	2671.8	2717.8	2775.2	2913.1	3114.3	3387.2	3651.5	4004.9
15°	2694.8	2703.4	2651.7	2691.9	2709.2	2729.3	2881.5	3108.5	3352.7	3711.8	4088.2
17.5°	2893.0	2844.2	2763.8	2726.4	2786.7	2786.7	2890.2	3068.3	3358.5	3743.4	4208.8
20°	3048.2	3048.2	2916.0	2875.8	2918.9	2910.3	2982.1	3114.3	3387.2	3806.6	4343.9
22.5°	3309.6	3347.0	3128.6	3045.3	3042.4	3065.4	3128.6	3240.7	3467.6	3895.7	4473.1
25°	3686.0	3694.6	3441.8	3355.6	3263.6	3301.0	3312.5	3424.5	3539.4	3999.1	4619.7
27.5°	4105.4	4099.7	3867.0	3651.5	3591.2	3599.8	3536.6	3611.3	3645.7	4030.7	4829.4
30°	4570.8	4519.1	4343.9	4039.3	3990.5	3935.9	3798.0	3795.1	3867.0	4208.8	5119.6
32.5°	4875.4	4809.3	4688.6	4470.3	4335.2	4341.0	4122.6	4119.8	4056.6	4404.2	5372.4
35°	5174.1	5073.6	5042.0	4817.9	4682.9	4697.2	4522.0	4499.0	4384.1	4700.1	5788.9
37.5°	5533.3	5444.2	5493.0	5323.5	5156.9	5088.0	5007.5	4978.8	4829.4	5116.7	6357.8
40°	5929.7	5901.0	5869.4	5786.1	5685.5	5691.3	5605.1	5576.4	5355.1	5619.4	6903.6
42.5°	6464.1	6354.9	6191.2	6245.7	6297.5	6352.0	6323.3	6248.6	6018.8	6130.8	7512.7
45°	6961.1	6817.5	6515.8	6533.0	6745.6	6788.7	7136.4	7127.7	6665.2	6780.1	8205.1
47.5°	7297.2	7231.2	7050.2	7030.1	7334.6	7331.7	7958.0	7958.0	7346.1	7426.5	8949.2
50°	7797.1	7624.7	7547.2	7647.7	7802.9	7909.2	8796.9	8851.5	8015.5	8101.7	9923.1
52.5°	8383.2	8167.7	7972.4	8230.9	8506.7	8575.7	9627.2	9604.2	8529.7	8886.0	11063.6
55°	8868.7	8759.6	8624.5	8773.9	9225.0	9311.2	10460.3	10247.7	9044.0	9535.2	11612.4
57.5°	9434.7	9500.8	9529.5	9492.2	10029.4	10164.4	11411.3	10802.2	9486.4	9971.9	11934.1
60°	10288.0	10328.2	10365.5	10454.6	11023.4	11213.0	12164.0	11497.5	9765.1	10224.7	11960.0
62.5°	11586.5	11431.4	11514.7	11822.1	12278.9	12494.4	13272.9	11985.9	9977.7	10377.0	11115.4
65°	13071.8	12862.1	12775.9	13172.4	14356.0	14183.6	14657.7	12350.7	9670.3	9808.2	9426.1
67.5°	14577.2	14600.2	14379.0	15174.8	16625.6	16625.6	15944.7	12526.0	8837.1	7949.4	6610.6
70°	15772.4	15844.2	15964.9	17507.6	19806.0	20153.6	17539.2	11807.7	7139.2	5291.9	3614.1
72.5°	15755.1	15539.7	16157.3	18998.7	22696.1	22406.0	17872.5	9337.0	4455.9	2591.4	1657.7
73°	15401.8	15220.8	15895.9	18984.3	22813.9	22541.0	17628.3	8607.3	3930.2	2246.6	1473.8
75°	12577.7	12250.2	13399.3	17194.5	21107.4	21317.1	14976.6	5613.7	2154.7	1384.8	1037.1
77.5°	5734.4	5878.0	7374.8	11534.8	16266.5	16513.6	9845.5	2427.6	1180.8	971.0	764.2
80°	1841.5	1933.5	2870.1	5734.4	10196.0	10641.3	4550.7	1103.2	841.8	744.1	571.7
82.5°	703.9	701.0	1203.8	2384.5	4832.3	5116.7	1663.4	672.3	626.3	548.7	405.1
85°	247.1	258.6	453.9	942.3	1901.9	1990.9	577.5	373.5	433.8	367.7	232.7
87.5°	86.2	89.1	160.9	341.9	655.0	692.4	160.9	149.4	215.5	212.6	117.8
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°	3895.7	3895.7	3895.7	3895.7	3895.7	3895.7	3895.7	3895.7	3895.7	3895.7	3895.7
2.5°	3935.9	3961.8	3970.4	4073.8	4073.8	4073.8	4114.0	4114.0	4102.5	4073.8	4142.8
5°	3953.1	3999.1	4088.2	4177.2	4200.2	4220.3	4274.9	4228.9	4246.2	4217.5	4243.3
7.5°	4002.0	4065.2	4231.8	4286.4	4249.1	4292.2	4234.7	4203.1	4171.5	4183.0	4142.8
10°	4085.3	4165.7	4243.3	4343.9	4272.0	4228.9	4111.2	4082.4	3981.9	3947.4	3979.0
12.5°	4188.7	4286.4	4418.6	4381.2	4243.3	4119.8	3993.4	3872.7	3812.4	3726.2	3749.2
15°	4292.2	4404.2	4424.3	4361.1	4188.7	4033.6	3803.8	3634.3	3573.9	3496.4	3536.6
17.5°	4404.2	4510.5	4476.0	4312.3	4079.6	3844.0	3582.5	3415.9	3289.5	3240.7	3240.7
20°	4570.8	4622.5	4568.0	4231.8	3947.4	3637.1	3384.3	3194.7	3068.3	3048.2	3016.6
22.5°	4700.1	4783.4	4539.2	4114.0	3754.9	3367.1	3076.9	3005.1	2967.7	2936.1	2895.9
25°	4866.7	4863.9	4487.5	4004.9	3424.5	3045.3	2870.1	2864.3	2847.1	2835.6	2890.2
27.5°	5024.7	4958.7	4427.2	3734.8	3082.7	2801.1	2706.3	2769.5	2795.4	2778.1	2801.1
30°	5274.7	5165.5	4341.0	3447.5	2781.0	2554.0	2571.3	2657.5	2700.6	2726.4	2691.9
32.5°	5539.0	5372.4	4162.9	3148.7	2513.8	2398.9	2439.1	2528.2	2579.9	2608.6	2640.2
35°	5921.1	5533.3	3981.9	2758.0	2321.3	2304.1	2327.1	2375.9	2450.6	2470.7	2479.3
37.5°	6392.3	5777.5	3737.7	2444.9	2171.9	2192.0	2215.0	2232.3	2235.1	2272.5	2258.1
40°	6863.4	5984.3	3381.4	2146.1	2016.8	2126.0	2114.5	2082.9	2057.0	2022.5	2013.9
42.5°	7277.1	6165.3	2985.0	1893.3	1878.9	2057.0	2019.7	1939.2	1878.9	1853.0	1809.9
45°	7742.5	6421.0	2585.6	1735.2	1772.6	1973.7	1962.2	1838.7	1761.1	1669.2	1657.7
47.5°	8345.9	6688.2	2203.5	1571.5	1672.0	1942.1	1947.8	1789.8	1677.8	1554.3	1537.0
50°	9118.7	7073.1	1913.4	1502.5	1611.7	1896.1	1904.8	1723.8	1577.2	1450.8	1439.3
52.5°	9859.9	7466.7	1672.0	1396.2	1571.5	1841.5	1861.7	1663.4	1493.9	1335.9	1344.5
55°	10233.4	7323.1	1465.2	1318.7	1479.6	1752.5	1827.2	1620.3	1367.5	1258.3	1255.5
57.5°	10316.7	6969.7	1301.4	1238.2	1402.0	1657.7	1769.7	1491.0	1310.1	1218.1	1206.6
60°	10043.8	6352.0	1172.2	1152.0	1304.3	1560.0	1637.6	1422.1	1252.6	1177.9	1160.7
62.5°	9371.5	5711.4	1083.1	1111.8	1221.0	1453.7	1554.3	1373.3	1198.0	1146.3	1108.9
65°	7685.1	4697.2	1011.3	1034.3	1134.8	1350.3	1502.5	1318.7	1149.2	1100.3	1097.5
67.5°	5323.5	3237.8	953.8	996.9	1065.9	1275.6	1450.8	1258.3	1086.0	1068.7	1045.7
70°	2726.4	1726.6	879.1	913.6	991.2	1180.8	1358.9	1195.1	1019.9	1017.0	988.3
72.5°	1381.9	1011.3	792.9	844.6	899.2	1057.2	1244.0	1111.8	936.6	905.0	859.0
73°	1195.1	936.6	778.6	824.5	876.2	1022.8	1209.5	1091.7	925.1	879.1	836.0
75°	870.5	738.3	698.1	744.1	784.3	922.2	1094.6	999.8	850.4	801.5	761.3
77.5°	652.2	568.8	580.3	632.0	666.5	795.8	973.9	905.0	769.9	703.9	686.6
80°	479.8	433.8	479.8	528.6	554.5	701.0	887.7	784.3	649.3	574.6	560.2
82.5°	341.9	316.0	370.6	402.2	413.7	580.3	798.7	626.3	491.3	393.6	362.0
85°	195.4	192.5	249.9	247.1	255.7	339.0	525.7	416.6	316.0	241.3	235.6
87.5°	86.2	94.8	126.4	100.6	106.3	160.9	224.1	155.1	129.3	71.8	54.6
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)