

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: P476894

Luminaire Tested: **IFLD-L-SA7A-727-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476894
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-727-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26323.8 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

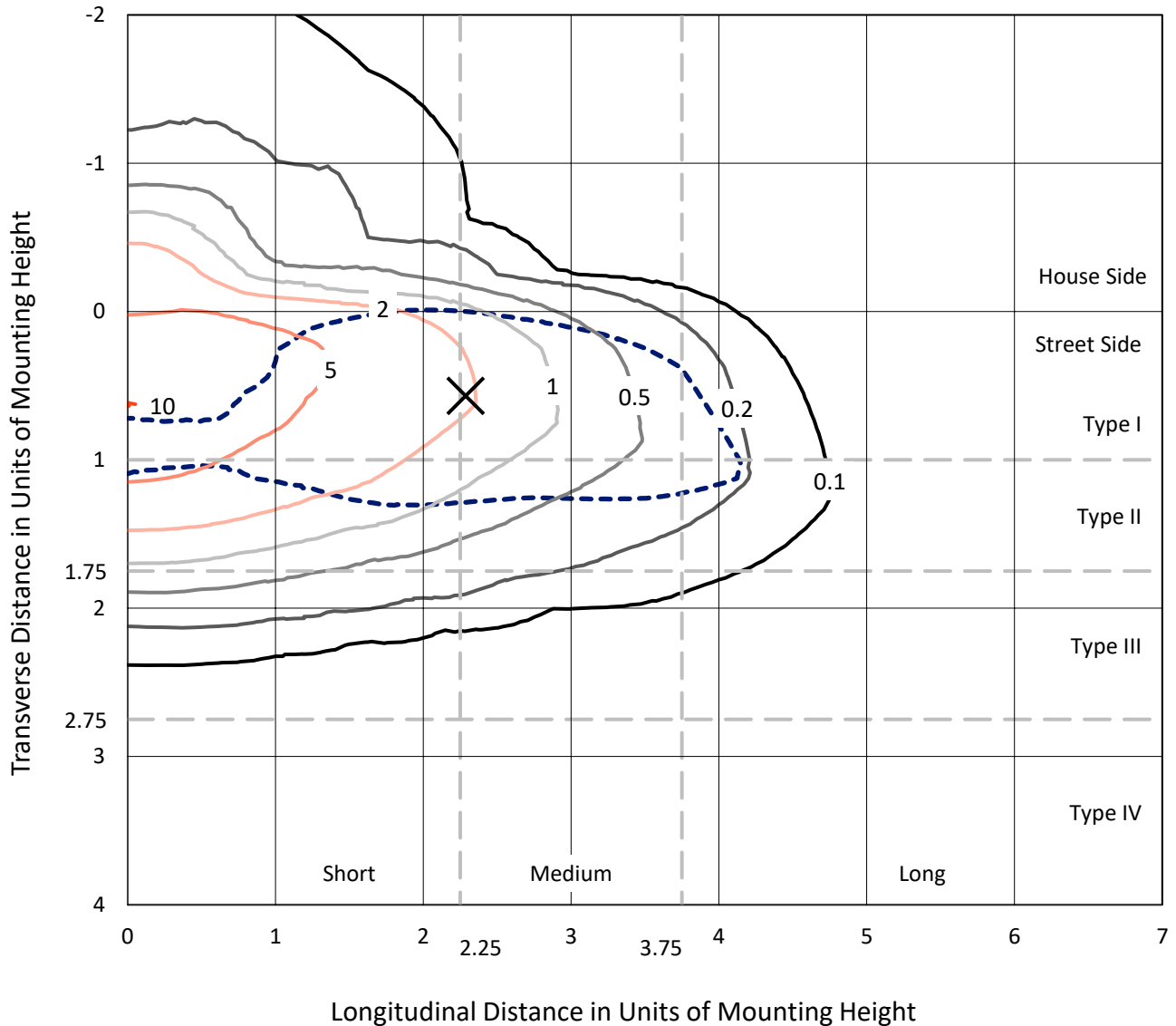
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P476894
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Iso-Footcandle Lines of Horizontal Illumination

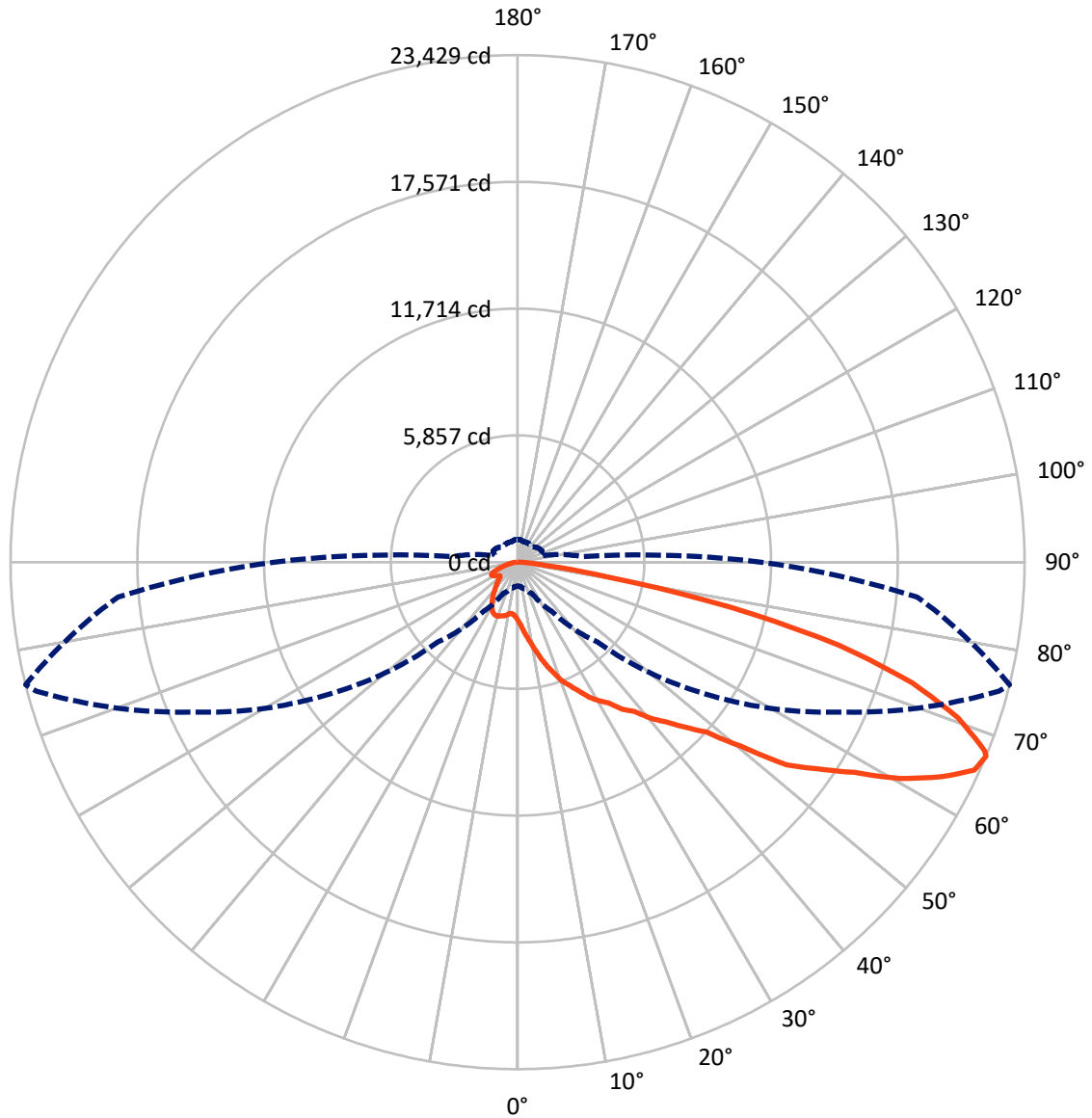
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P476894
CATALOG NUMBER: IFLD-L-SA7A-727-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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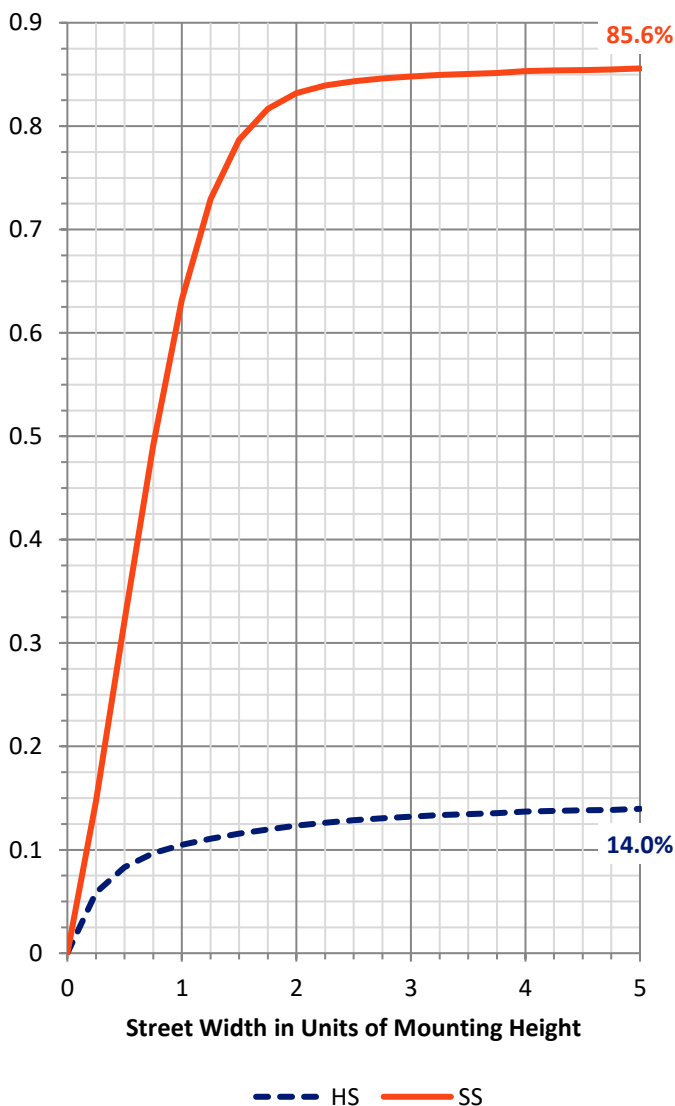
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3744.9	0.0	3744.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	22578.9	0.0	22578.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	26323.8	0.0	26323.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.0	1.2
10°-20°	1170.3	4.4
20°-30°	2175.8	8.3
30°-40°	3449.1	13.1
40°-50°	4770.4	18.1
50°-60°	5867.9	22.3
60°-70°	5460.4	20.7
70°-80°	2740.0	10.4
80°-90°	377.8	1.4
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°	26323.8	100.0
0°-180°	26323.8	100.0

Coefficient of Utilization



REPORT NUMBER: P476894

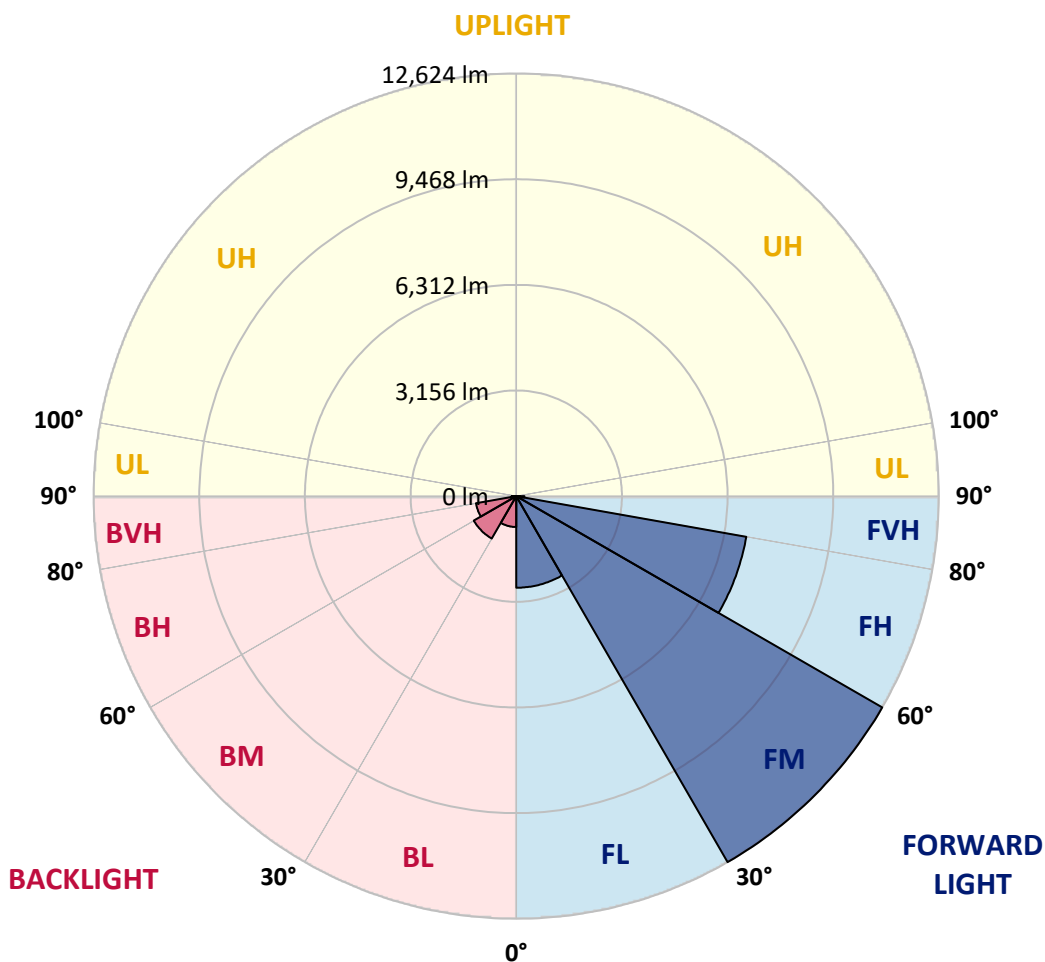
CATALOG NUMBER: IFLD-L-SA7A-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2735.9	10.4			
FM (30°-60°)	12624.0	48.0			
FH (60°-80°)	6978.2	26.5			G3/7500
FVH (80°-90°)	240.7	0.9			G3/500
BL (0°-30°)	922.2	3.5	B2/1000		
BM (30°-60°)	1463.4	5.6	B2/2500		
BH (60°-80°)	1222.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	137.1	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8
2.5°	3737.8	3692.8	3647.8	3551.8	3518.8	3428.8	3263.8	3080.8	2930.8	2909.8	2804.8
5°	4637.7	4571.7	4556.7	4502.7	4331.7	4157.7	3887.8	3593.8	3227.8	3254.8	2894.8
7.5°	5312.7	5273.7	5192.7	5141.7	5039.7	4808.7	4529.7	4139.7	3674.8	3584.8	3095.8
10°	5822.6	5768.6	5765.6	5720.6	5666.6	5429.7	5216.7	4691.7	4094.7	3971.8	3341.8
12.5°	6080.6	6071.6	6230.6	6230.6	6209.6	6110.6	5744.6	5264.7	4493.7	4451.7	3626.8
15°	6359.6	6284.6	6422.6	6527.6	6581.6	6632.6	6329.6	5822.6	5003.7	4922.7	3932.8
17.5°	6359.6	6353.6	6491.6	6665.6	6947.6	7013.6	6848.6	6335.6	5426.7	5366.7	4268.7
20°	6251.6	6338.6	6434.6	6668.6	6974.6	7241.6	7289.5	6860.6	5894.6	5846.6	4649.7
22.5°	6755.6	6671.6	6770.6	6860.6	7097.6	7502.5	7634.5	7322.5	6386.6	6203.6	4994.7
25°	7601.5	7544.5	7472.5	7340.5	7439.5	7616.5	7817.5	7664.5	6806.6	6602.6	5327.7
27.5°	8426.5	8429.5	8273.5	7985.5	7772.5	7808.5	8045.5	7964.5	7160.6	7070.6	5555.7
30°	9599.4	9527.4	9353.4	8963.4	8546.5	8204.5	8165.5	8243.5	7610.5	7436.5	5882.6
32.5°	10478.3	10493.3	10247.4	9686.4	9116.4	8837.5	8495.5	8528.5	7895.5	7766.5	6143.6
35°	11189.3	11171.3	10997.3	10532.3	9857.4	9521.4	9059.4	8870.4	8558.5	8354.5	6542.6
37.5°	11957.3	11810.3	11528.3	11003.3	10571.3	10106.4	9656.4	9230.4	8999.4	8753.5	6884.6
40°	12266.2	12266.2	11888.3	11648.3	11135.3	10784.3	10493.3	9704.4	9536.4	9488.4	7322.5
42.5°	12047.3	12182.2	12026.3	11753.3	11543.3	11099.3	11021.3	10196.4	10199.4	10103.4	7847.5
45°	12026.3	11840.3	11711.3	11780.3	11681.3	11657.3	11855.3	10877.3	10895.3	10883.3	8552.5
47.5°	11423.3	11339.3	11531.3	11645.3	11726.3	12098.2	12668.2	11690.3	11819.3	11729.3	9365.4
50°	10823.3	10808.3	10928.3	11342.3	11693.3	12305.2	13442.2	12944.2	13367.2	13361.2	10838.3
52.5°	9179.4	9338.4	9809.4	10685.3	11552.3	12587.2	14027.1	14546.1	15353.0	15572.0	12059.3
55°	7607.5	7523.5	8219.5	9491.4	10937.3	12698.2	14681.1	15509.0	16697.0	16856.0	13313.2
57.5°	5918.6	6074.6	6623.6	7844.5	9665.4	12149.2	15161.1	16460.0	18214.9	18337.9	14768.1
60°	4415.7	4436.7	5039.7	6023.6	7973.5	10910.3	15317.0	17434.9	19954.8	20305.7	16292.0
62.5°	2777.8	2903.8	3362.8	4331.7	6002.6	9176.4	14618.1	18025.9	21778.6	21871.6	17827.9
65°	1496.9	1577.9	1922.9	2531.8	4193.7	6941.6	12764.2	17671.9	22636.6	23188.6	18511.9
67°	1106.9	1121.9	1280.9	1616.9	2804.8	5225.7	10643.3	16391.0	23026.6	23428.5	18538.8
67.5°	1037.9	1058.9	1184.9	1451.9	2486.8	4811.7	10088.4	15935.0	22852.6	23284.6	18328.9
70°	887.9	893.9	923.9	998.9	1394.9	2894.8	6869.6	13058.2	21181.7	21595.7	16856.0
72.5°	789.0	795.0	806.9	821.9	944.9	1673.9	4178.7	10049.4	18409.9	19069.8	14543.1
75°	693.0	714.0	720.0	708.0	804.0	1088.9	2222.9	7385.5	15017.1	15338.0	11309.3
77.5°	588.0	597.0	609.0	621.0	717.0	812.9	1067.9	4985.7	10307.4	10112.4	6116.6
80°	495.0	498.0	507.0	516.0	621.0	621.0	606.0	2693.8	4502.7	4304.7	2066.9
82.5°	354.0	375.0	396.0	420.0	516.0	417.0	396.0	1199.9	1424.9	1355.9	699.0
85°	138.0	168.0	261.0	288.0	327.0	225.0	264.0	519.0	594.0	588.0	261.0
87.5°	24.0	27.0	72.0	111.0	120.0	78.0	126.0	186.0	222.0	240.0	96.0
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°	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8
2.5°	2717.8	2624.8	2513.8	2402.9	2330.9	2216.9	2207.9	2138.9	2129.9	2105.9	2117.9
5°	2738.8	2627.8	2402.9	2225.9	2144.9	2078.9	2093.9	2063.9	2054.9	2039.9	2015.9
7.5°	2903.8	2684.8	2348.9	2195.9	2135.9	2105.9	2105.9	2069.9	2042.9	2060.9	2078.9
10°	3011.8	2711.8	2390.9	2237.9	2189.9	2123.9	2147.9	2102.9	2117.9	2081.9	2081.9
12.5°	3185.8	2864.8	2477.8	2300.9	2222.9	2162.9	2186.9	2135.9	2123.9	2126.9	2117.9
15°	3419.8	2966.8	2516.8	2336.9	2282.9	2207.9	2189.9	2144.9	2099.9	2084.9	2102.9
17.5°	3638.8	3092.8	2543.8	2357.9	2270.9	2186.9	2165.9	2108.9	2093.9	2048.9	2012.9
20°	3899.8	3242.8	2579.8	2375.9	2225.9	2141.9	2087.9	2030.9	1979.9	1952.9	1964.9
22.5°	4073.7	3320.8	2597.8	2339.9	2159.9	2081.9	1967.9	1928.9	1856.9	1826.9	1802.9
25°	4358.7	3416.8	2552.8	2240.9	2042.9	1916.9	1814.9	1760.9	1709.9	1670.9	1658.9
27.5°	4430.7	3488.8	2447.8	2072.9	1856.9	1724.9	1637.9	1571.9	1538.9	1478.9	1466.9
30°	4640.7	3416.8	2291.9	1868.9	1679.9	1544.9	1457.9	1409.9	1331.9	1316.9	1283.9
32.5°	4775.7	3437.8	2093.9	1670.9	1475.9	1355.9	1298.9	1250.9	1229.9	1157.9	1139.9
35°	5000.7	3365.8	1892.9	1487.9	1307.9	1214.9	1166.9	1151.9	1082.9	1049.9	1019.9
37.5°	5144.7	3323.8	1691.9	1280.9	1124.9	1085.9	1100.9	1037.9	953.9	890.9	869.9
40°	5396.7	3308.8	1463.9	1109.9	998.9	989.9	1037.9	917.9	765.0	711.0	681.0
42.5°	5759.6	3206.8	1286.9	956.9	899.9	938.9	947.9	765.0	678.0	633.0	612.0
45°	6107.6	3227.8	1112.9	792.0	783.0	839.9	818.9	648.0	597.0	564.0	582.0
47.5°	6776.6	3332.8	941.9	660.0	705.0	759.0	636.0	579.0	531.0	507.0	510.0
50°	7811.5	3434.8	792.0	603.0	666.0	687.0	546.0	525.0	522.0	474.0	471.0
52.5°	8432.5	3395.8	765.0	675.0	714.0	687.0	594.0	579.0	555.0	534.0	510.0
55°	9419.4	3509.8	821.9	789.0	809.9	660.0	666.0	660.0	642.0	588.0	603.0
57.5°	10205.4	3584.8	896.9	881.9	869.9	687.0	696.0	699.0	687.0	663.0	684.0
60°	11285.3	3734.8	974.9	977.9	980.9	747.0	762.0	780.0	777.0	768.0	774.0
62.5°	11948.3	3665.8	1061.9	1109.9	1094.9	869.9	866.9	878.9	878.9	893.9	902.9
65°	11849.3	3410.8	1106.9	1226.9	1148.9	959.9	959.9	965.9	968.9	998.9	1001.9
67°	11255.3	2954.8	1082.9	1244.9	1148.9	995.9	995.9	1001.9	980.9	1058.9	1034.9
67.5°	10979.3	2819.8	1061.9	1229.9	1139.9	992.9	992.9	995.9	977.9	1052.9	1028.9
70°	9548.4	2093.9	914.9	1088.9	1055.9	965.9	965.9	947.9	932.9	1031.9	1010.9
72.5°	8150.5	1520.9	735.0	926.9	953.9	929.9	935.9	890.9	848.9	917.9	899.9
75°	6242.6	1118.9	573.0	714.0	806.9	869.9	908.9	795.0	741.0	759.0	726.0
77.5°	3482.8	729.0	453.0	528.0	615.0	809.9	872.9	717.0	606.0	585.0	585.0
80°	1181.9	426.0	333.0	393.0	423.0	717.0	815.9	582.0	477.0	456.0	441.0
82.5°	447.0	261.0	228.0	270.0	270.0	567.0	666.0	447.0	360.0	465.0	474.0
85°	204.0	156.0	150.0	156.0	156.0	348.0	471.0	291.0	324.0	279.0	246.0
87.5°	81.0	75.0	69.0	66.0	54.0	60.0	162.0	78.0	147.0	39.0	36.0
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)