

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: P476483

Luminaire Tested: **IFLD-S-SA3E-727-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476483
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-727-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

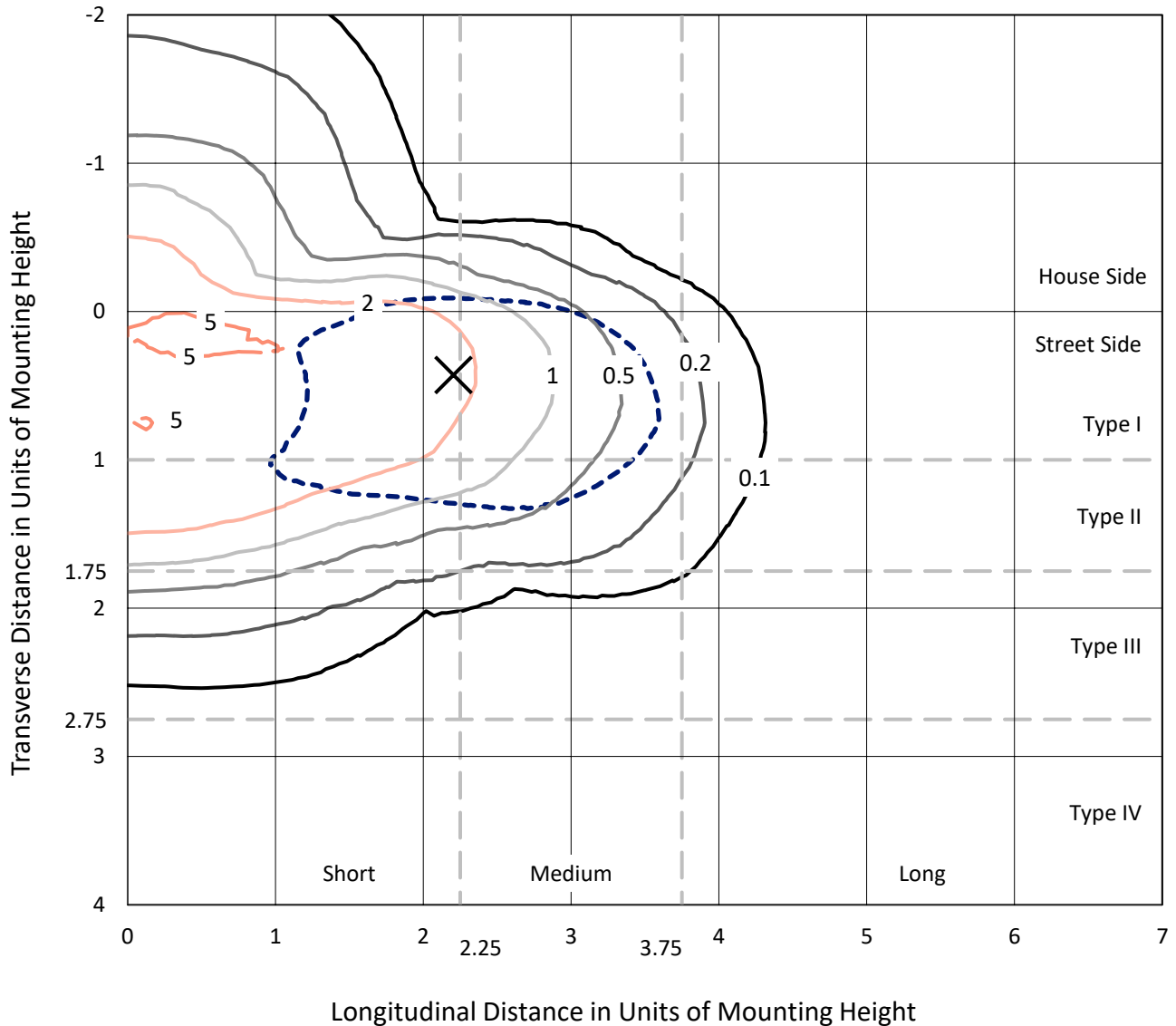
Lumens per Lamp: N/A
Luminaire Lumens: 22530.6 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 232.1
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

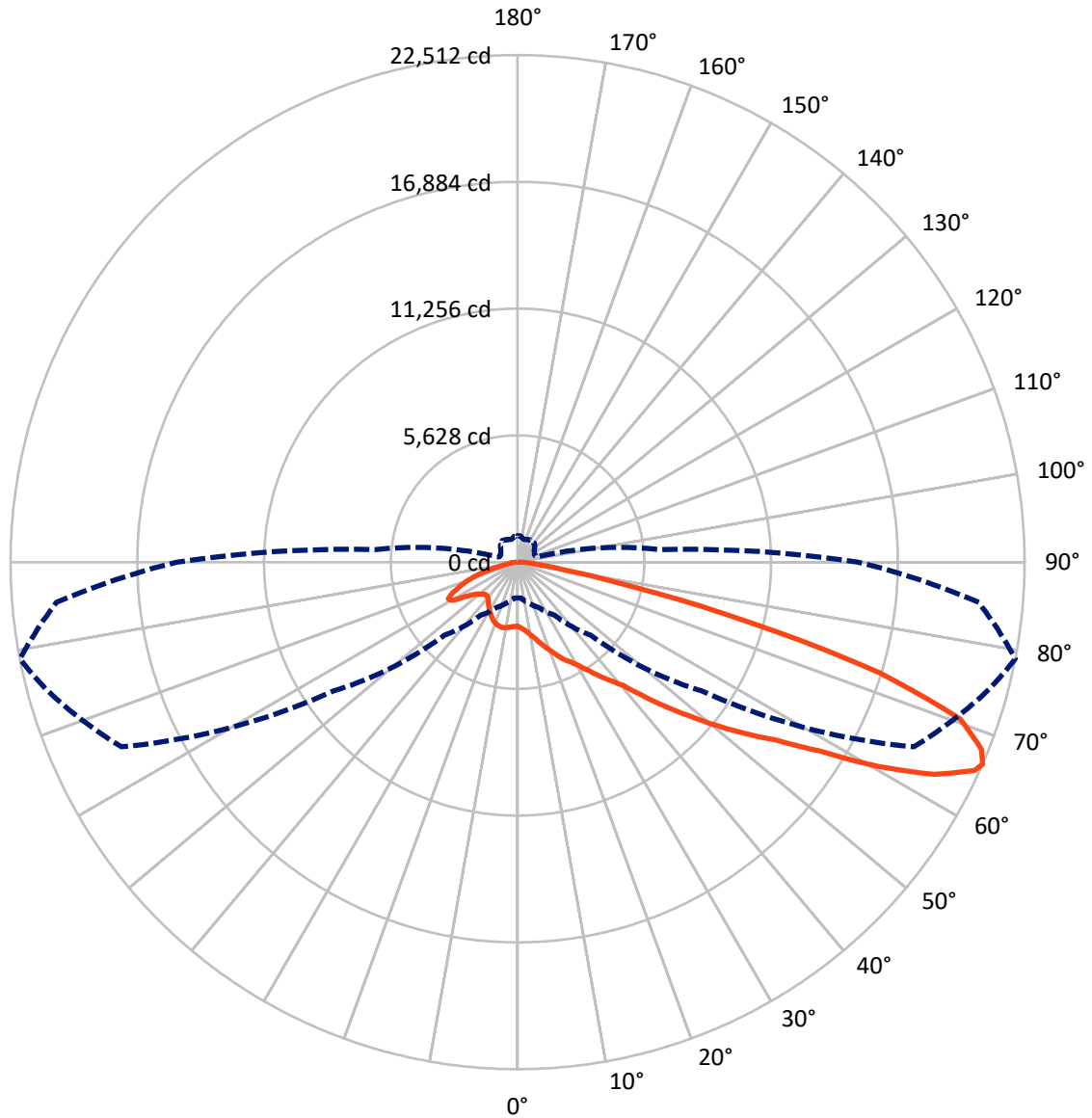
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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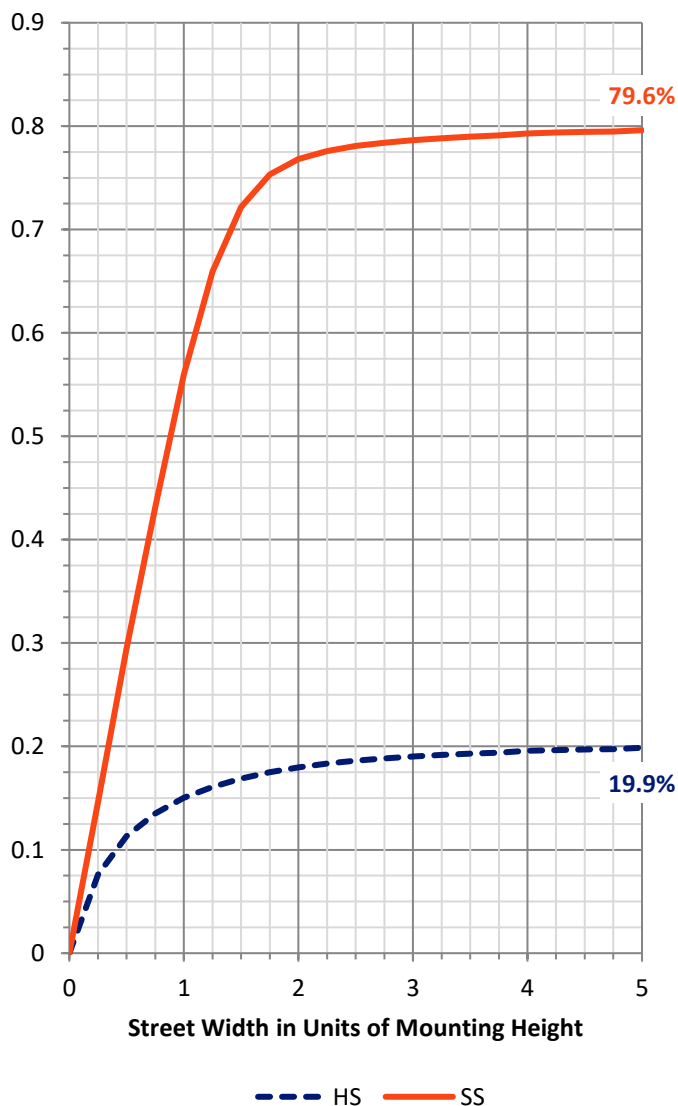
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4549.7	0.0	4549.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	17980.9	0.0	17980.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	22530.6	0.0	22530.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.7	1.2
10°-20°	863.8	3.8
20°-30°	1482.8	6.6
30°-40°	2290.6	10.2
40°-50°	3669.1	16.3
50°-60°	5478.2	24.3
60°-70°	5628.8	25.0
70°-80°	2495.2	11.1
80°-90°	342.4	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°	22530.6	100.0
0°-180°	22530.6	100.0

Coefficient of Utilization



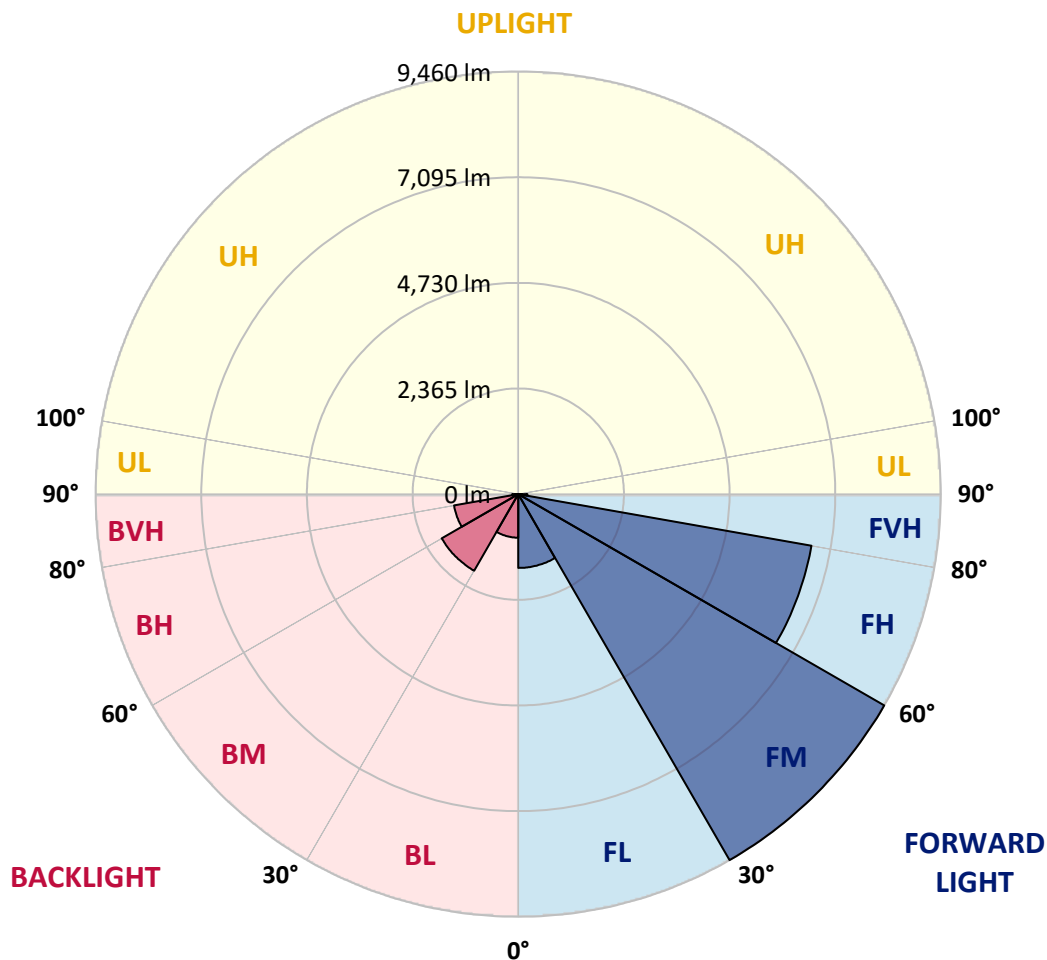
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1651.6	7.3			
FM (30°-60°)	9459.8	42.0			
FH (60°-80°)	6664.1	29.6			G3/7500
FVH (80°-90°)	205.3	0.9			G2/225
BL (0°-30°)	974.8	4.3	B2/1000		
BM (30°-60°)	1978.0	8.8	B2/2500		
BH (60°-80°)	1459.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	137.0	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°	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0
2.5°	3025.9	3028.4	3028.4	3018.5	3020.9	3028.4	3001.1	2941.6	2941.6	2931.7	2914.4
5°	3211.8	3199.4	3182.0	3184.5	3174.6	3174.6	3144.9	3087.9	3038.3	3018.5	2966.4
7.5°	3236.5	3248.9	3246.5	3276.2	3291.1	3291.1	3305.9	3258.8	3184.5	3137.4	3085.4
10°	3286.1	3253.9	3251.4	3320.8	3343.1	3395.2	3454.6	3429.8	3367.9	3301.0	3231.6
12.5°	3315.8	3335.7	3335.7	3370.4	3422.4	3499.2	3603.3	3650.4	3553.8	3484.4	3377.8
15°	3360.5	3333.2	3412.5	3442.2	3541.4	3595.9	3744.6	3866.0	3801.6	3717.3	3548.8
17.5°	3380.3	3362.9	3407.5	3462.1	3630.6	3712.4	3893.3	4061.8	4007.3	3952.7	3779.3
20°	3481.9	3479.4	3499.2	3543.8	3665.3	3826.4	4051.9	4284.8	4304.7	4205.5	3970.1
22.5°	3729.7	3697.5	3697.5	3680.1	3732.2	3898.2	4203.0	4525.2	4614.4	4498.0	4185.7
25°	3957.7	4002.3	3975.1	3895.8	3875.9	3962.7	4312.1	4780.5	4899.4	4790.4	4478.1
27.5°	4250.1	4265.0	4312.1	4205.5	4069.2	4096.5	4431.0	4924.2	5169.6	5023.3	4644.2
30°	4671.4	4644.2	4634.3	4515.3	4336.9	4299.7	4567.3	5134.9	5523.9	5318.2	4839.9
32.5°	4956.4	5023.3	5020.9	4857.3	4641.7	4559.9	4735.9	5333.1	5903.1	5712.3	5201.8
35°	5521.5	5590.8	5536.3	5295.9	5043.2	4879.6	4978.7	5590.8	6336.8	6188.1	5509.1
37.5°	6242.6	6406.2	6289.7	5846.1	5489.2	5310.8	5315.8	5870.9	6780.4	6659.0	5838.7
40°	6740.7	6961.3	6800.2	6383.9	6004.7	5836.2	5769.3	6203.0	7310.7	7181.9	6354.1
42.5°	7357.8	7541.2	7456.9	7045.6	6602.0	6458.2	6324.4	6758.1	8121.1	8061.6	7015.8
45°	8031.9	8118.6	8091.4	7831.2	7338.0	7288.4	6993.5	7489.2	9075.2	9100.0	7843.5
47.5°	8658.9	8706.0	8758.0	8569.7	8262.4	8304.5	7764.2	8272.3	10002.1	10165.6	8765.4
50°	8820.0	8981.0	9102.5	9228.9	9295.8	9580.8	8614.3	9233.8	11067.7	11384.9	9791.4
52.5°	8656.4	8644.0	9013.3	9409.8	10078.9	10676.1	9771.6	10428.3	12009.4	12636.4	10730.7
55°	7912.9	7888.2	8482.9	9008.3	10314.3	11285.8	11424.6	12019.3	13146.9	13962.2	12002.0
57.5°	6611.9	6458.2	7107.5	7969.9	9803.8	11352.7	13085.0	14381.1	14896.5	15825.9	13942.4
60°	4443.4	4379.0	5001.0	6029.5	7960.0	10403.5	14078.7	17337.6	17362.4	18408.2	16953.5
62.5°	2735.9	2748.3	3147.3	3918.1	5573.5	8247.5	13650.0	19699.3	19704.3	20752.6	19431.7
65°	1789.3	1796.7	2118.9	2545.1	3481.9	5593.3	11288.3	19885.2	21332.5	22306.4	20566.7
66°	1593.5	1596.0	1873.5	2220.5	2884.6	4577.3	9969.8	19401.9	21699.2	22512.1	20551.8
67.5°	1343.2	1375.4	1598.4	1866.1	2250.2	3288.6	7910.5	18004.2	21510.9	22224.6	20085.9
70°	1050.8	1068.1	1244.1	1516.7	1687.7	1903.3	4701.2	14676.0	19689.4	20846.7	18390.8
72.5°	842.6	857.5	991.3	1231.7	1370.5	1254.0	2560.0	10648.9	15553.3	16787.4	14465.3
75°	711.2	713.7	778.2	969.0	1127.6	941.7	1363.0	6834.9	9979.8	10554.7	8862.1
77.5°	574.9	584.9	629.5	738.5	907.0	741.0	812.9	3828.8	5010.9	5053.1	4096.5
80°	468.4	473.3	500.6	537.8	691.4	547.7	550.2	1868.6	2148.6	2099.0	1665.4
82.5°	369.3	374.2	406.4	399.0	508.0	391.6	342.0	899.6	988.8	969.0	765.8
85°	208.2	208.2	319.7	319.7	322.2	247.8	208.2	423.8	522.9	488.2	359.3
87.5°	66.9	69.4	96.7	101.6	161.1	111.5	101.6	158.6	247.8	218.1	128.9
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°	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0	2845.0
2.5°	2904.5	2864.8	2847.5	2790.5	2775.6	2738.4	2721.1	2698.8	2691.3	2659.1	2688.9
5°	2926.8	2914.4	2845.0	2773.1	2718.6	2693.8	2656.6	2607.1	2602.1	2557.5	2552.6
7.5°	3020.9	2978.8	2857.4	2780.6	2671.5	2609.6	2527.8	2503.0	2470.8	2455.9	2488.1
10°	3167.2	3060.6	2879.7	2686.4	2552.6	2478.2	2418.7	2401.4	2403.9	2394.0	2379.1
12.5°	3271.2	3169.6	2842.5	2607.1	2433.6	2361.7	2356.8	2374.1	2401.4	2389.0	2406.3
15°	3419.9	3229.1	2815.2	2475.7	2337.0	2317.1	2314.7	2366.7	2364.2	2364.2	2361.7
17.5°	3558.7	3288.6	2716.1	2361.7	2235.3	2250.2	2267.6	2265.1	2289.9	2299.8	2317.1
20°	3734.7	3358.0	2577.3	2247.7	2158.5	2153.6	2151.1	2153.6	2178.3	2193.2	2180.8
22.5°	3888.3	3372.8	2460.9	2138.7	2066.8	2047.0	2014.8	2047.0	2034.6	2039.6	2054.4
25°	4022.1	3375.3	2294.8	2056.9	1975.1	1930.5	1905.7	1903.3	1881.0	1878.5	1878.5
27.5°	4133.7	3291.1	2148.6	1942.9	1866.1	1824.0	1821.5	1794.2	1737.2	1700.1	1705.0
30°	4220.4	3226.6	2047.0	1843.8	1769.4	1762.0	1739.7	1677.7	1603.4	1556.3	1556.3
32.5°	4374.0	3097.8	1908.2	1742.2	1705.0	1695.1	1643.1	1588.5	1519.1	1474.5	1467.1
35°	4488.0	2978.8	1816.5	1655.4	1638.1	1618.3	1573.7	1514.2	1494.4	1484.4	1491.9
37.5°	4616.9	2845.0	1705.0	1581.1	1598.4	1561.3	1509.2	1482.0	1551.4	1534.0	1541.4
40°	4822.6	2750.8	1596.0	1536.5	1553.8	1511.7	1444.8	1434.9	1521.6	1459.7	1444.8
42.5°	5199.3	2748.3	1529.1	1469.6	1482.0	1449.8	1390.3	1385.3	1420.0	1345.7	1323.4
45°	5667.7	2835.1	1479.5	1420.0	1410.1	1405.1	1385.3	1363.0	1333.3	1236.6	1211.8
47.5°	6227.7	2976.3	1469.6	1345.7	1358.1	1400.2	1375.4	1318.4	1241.6	1179.6	1167.2
50°	6906.8	3268.8	1444.8	1291.1	1313.5	1380.4	1360.5	1281.2	1211.8	1172.2	1164.8
52.5°	7657.7	3638.0	1412.6	1206.9	1256.5	1363.0	1372.9	1298.6	1197.0	1162.3	1157.3
55°	8542.4	4183.2	1375.4	1115.2	1189.5	1345.7	1372.9	1249.0	1177.2	1177.2	1172.2
57.5°	10289.5	5164.6	1298.6	1030.9	1130.1	1313.5	1333.3	1251.5	1179.6	1179.6	1169.7
60°	12852.0	6696.1	1152.4	966.5	1073.1	1268.8	1303.5	1214.3	1152.4	1167.2	1164.8
62.5°	14856.9	7162.0	1028.5	904.5	1016.1	1187.1	1263.9	1174.7	1120.2	1174.7	1179.6
65°	15285.6	6691.2	902.1	837.6	936.8	1107.8	1206.9	1117.7	1073.1	1179.6	1184.6
66°	15132.0	6324.4	857.5	817.8	902.1	1068.1	1172.2	1097.8	1048.3	1174.7	1177.2
67.5°	14448.0	5774.2	807.9	775.7	855.0	1011.1	1132.5	1070.6	1008.6	1159.8	1137.5
70°	12961.1	4896.9	723.6	701.3	788.1	916.9	1040.8	1001.2	946.7	1068.1	1028.5
72.5°	9982.2	3913.1	634.4	636.9	711.2	820.3	949.2	921.9	874.8	936.8	912.0
75°	6079.1	2500.5	552.6	557.6	619.6	728.6	862.4	842.6	785.6	820.3	807.9
77.5°	2693.8	1239.1	465.9	475.8	525.4	641.9	750.9	718.7	659.2	666.6	661.7
80°	1045.8	587.3	379.2	391.6	423.8	513.0	622.0	592.3	540.3	530.3	525.4
82.5°	503.1	327.1	292.4	297.4	309.8	408.9	535.3	498.1	428.7	384.1	384.1
85°	252.8	203.2	205.7	188.3	205.7	277.6	361.8	302.3	250.3	223.0	228.0
87.5°	101.6	101.6	101.6	86.7	91.7	131.3	168.5	114.0	104.1	62.0	62.0
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)