

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: P476536

Luminaire Tested: **IFLD-S-SA6D-730-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476536
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-730-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

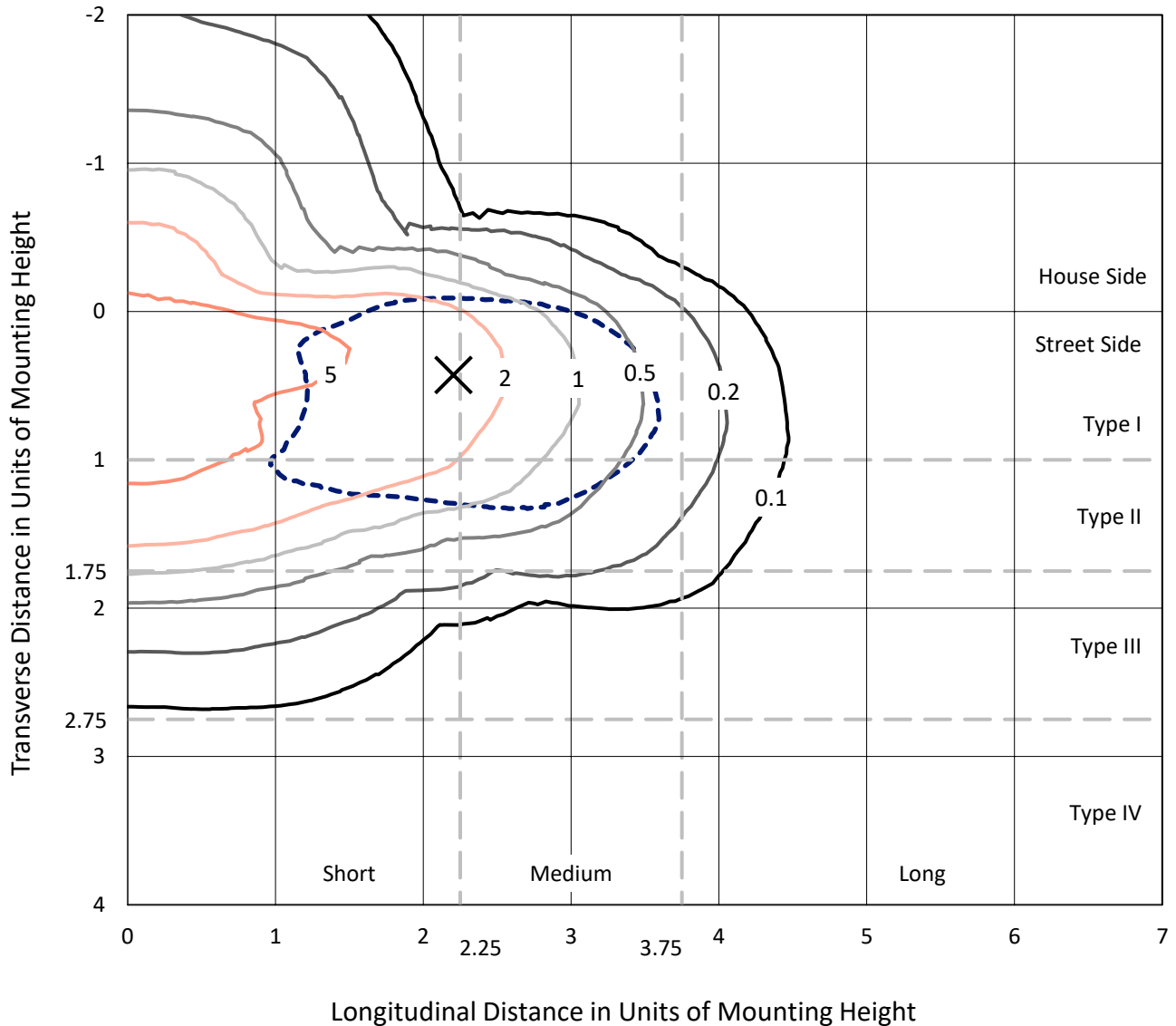
Lumens per Lamp: N/A
Luminaire Lumens: 41584.1 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 368.2
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

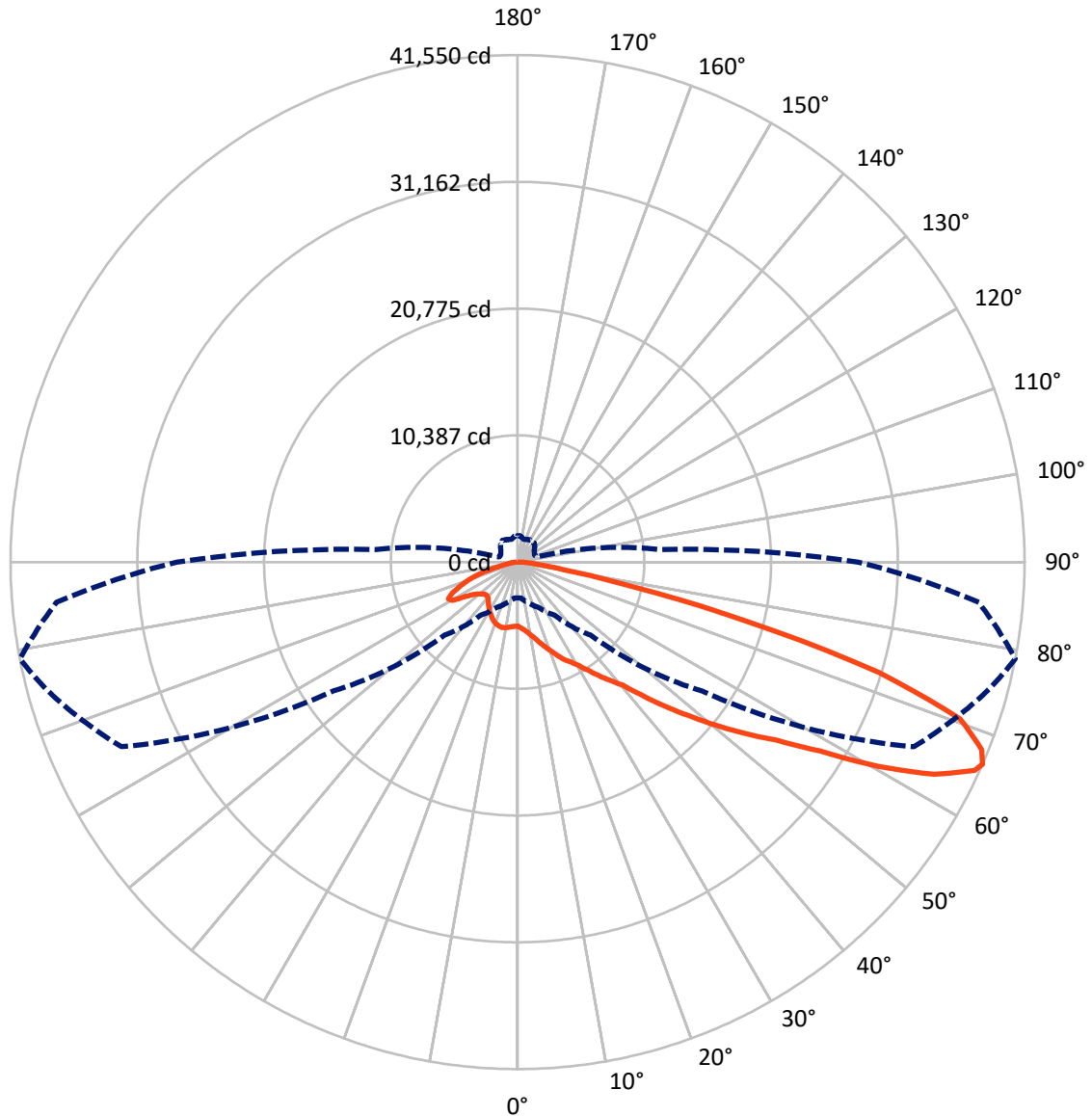
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 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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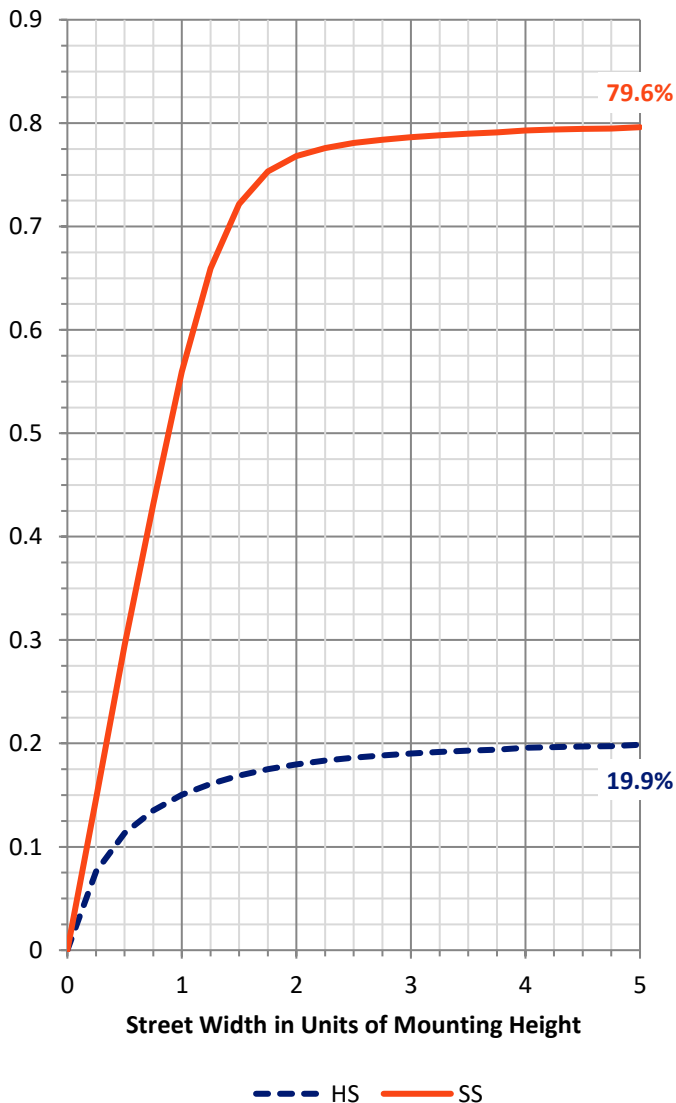
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8397.3	0.0	8397.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	33186.7	0.0	33186.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	41584.1	0.0	41584.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.3	1.2
10°-20°	1594.4	3.8
20°-30°	2736.8	6.6
30°-40°	4227.8	10.2
40°-50°	6771.9	16.3
50°-60°	10110.9	24.3
60°-70°	10388.9	25.0
70°-80°	4605.3	11.1
80°-90°	631.9	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°	41584.1	100.0
0°-180°	41584.1	100.0



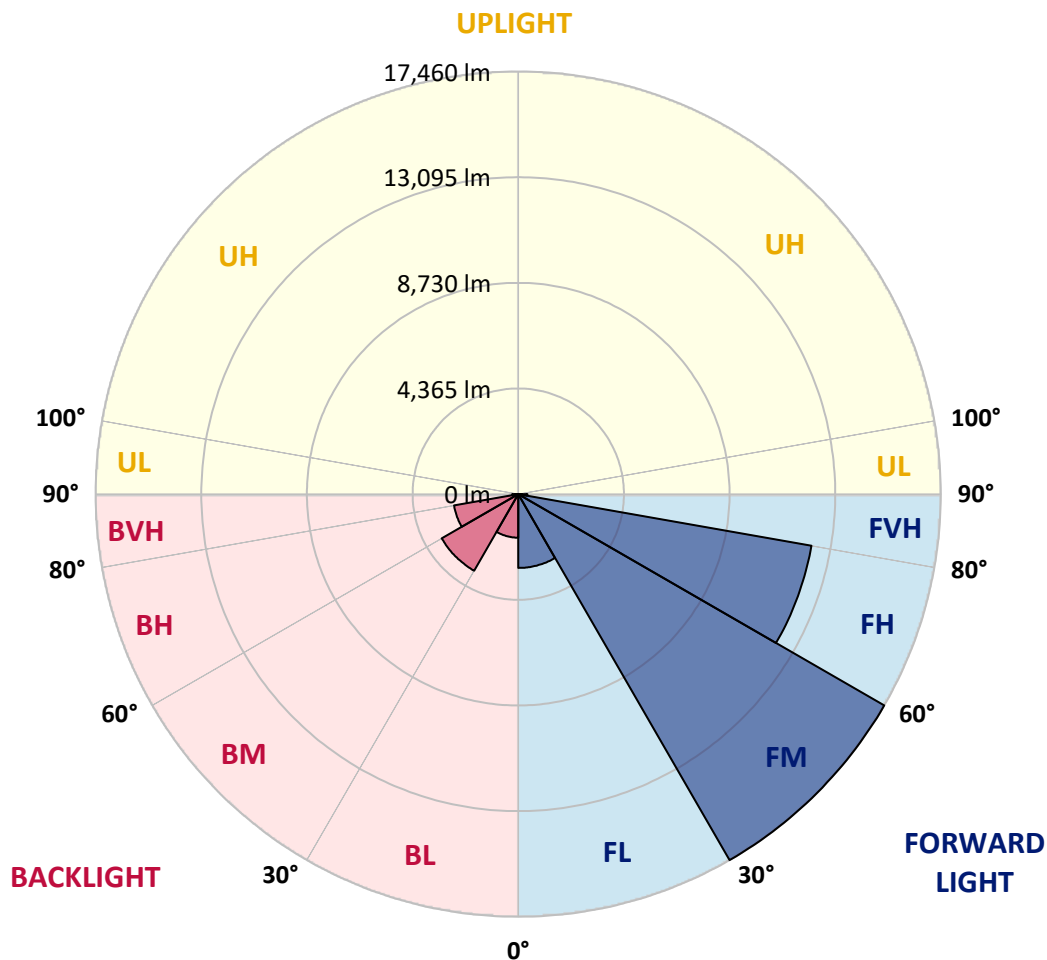
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3048.4	7.3			
FM (30°-60°)	17459.7	42.0			
FH (60°-80°)	12299.6	29.6			G5
FVH (80°-90°)	379.0	0.9			G3/500
BL (0°-30°)	1799.1	4.3	B3/2500		
BM (30°-60°)	3650.8	8.8	B3/5000		
BH (60°-80°)	2694.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	252.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5250.9	5250.9	5250.9	5250.9	5250.9	5250.9	5250.9	5250.9	5250.9	5250.9	5250.9
2.5°	5584.8	5589.4	5589.4	5571.1	5575.7	5589.4	5539.1	5429.3	5429.3	5411.0	5379.0
5°	5927.9	5905.0	5873.0	5877.5	5859.3	5859.3	5804.4	5699.2	5607.7	5571.1	5475.0
7.5°	5973.6	5996.5	5991.9	6046.8	6074.2	6074.2	6101.7	6014.8	5877.5	5790.6	5694.6
10°	6065.1	6005.6	6001.0	6129.1	6170.3	6266.3	6376.1	6330.4	6216.0	6092.5	5964.5
12.5°	6120.0	6156.6	6156.6	6220.6	6316.6	6458.4	6650.5	6737.5	6559.1	6431.0	6234.3
15°	6202.3	6152.0	6298.4	6353.2	6536.2	6636.8	6911.3	7135.4	7016.5	6860.9	6549.9
17.5°	6238.9	6206.9	6289.2	6389.8	6700.9	6851.8	7185.7	7496.7	7396.1	7295.5	6975.3
20°	6426.4	6421.8	6458.4	6540.8	6764.9	7062.2	7478.4	7908.4	7945.0	7762.0	7327.5
22.5°	6883.8	6824.4	6824.4	6792.3	6888.4	7194.8	7757.4	8352.1	8516.7	8301.7	7725.4
25°	7304.6	7387.0	7336.6	7190.3	7153.7	7313.8	7958.7	8823.2	9042.7	8841.5	8265.2
27.5°	7844.4	7871.8	7958.7	7762.0	7510.5	7560.8	8178.3	9088.5	9541.3	9271.4	8571.6
30°	8621.9	8571.6	8553.3	8333.8	8004.4	7935.8	8429.8	9477.3	10195.4	9815.7	8933.0
32.5°	9147.9	9271.4	9266.9	8965.0	8567.0	8416.1	8740.8	9843.2	10895.2	10543.0	9600.8
35°	10190.8	10318.9	10218.2	9774.6	9308.0	9006.1	9189.1	10318.9	11695.6	11421.2	10167.9
37.5°	11521.8	11823.7	11608.7	10790.0	10131.3	9802.0	9811.2	10835.7	12514.4	12290.2	10776.3
40°	12441.2	12848.3	12551.0	11782.5	11082.7	10771.7	10648.2	11448.6	13493.2	13255.4	11727.6
42.5°	13580.1	13918.6	13763.1	13003.8	12185.0	11919.8	11672.8	12473.2	14988.9	14879.1	12948.9
45°	14824.2	14984.3	14934.0	14453.7	13543.5	13452.0	12907.7	13822.5	16749.9	16795.6	14476.6
47.5°	15981.4	16068.3	16164.4	15816.8	15249.6	15327.4	14330.2	15267.9	18460.5	18762.4	16178.1
50°	16278.7	16576.1	16800.2	17033.4	17156.9	17683.0	15899.1	17042.6	20427.3	21012.8	18071.7
52.5°	15976.9	15954.0	16635.5	17367.3	18602.3	19704.6	18035.1	19247.2	22165.4	23322.7	19805.3
55°	14604.7	14558.9	15656.7	16626.4	19036.8	20829.8	21086.0	22183.7	24264.9	25769.7	22151.7
57.5°	12203.3	11919.8	13118.1	14709.9	18094.6	20953.3	24150.5	26542.7	27494.1	29209.3	25733.1
60°	8201.1	8082.2	9230.3	11128.5	14691.6	19201.5	25984.7	31999.5	32045.2	33975.4	31290.5
62.5°	5049.7	5072.5	5808.9	7231.4	10286.8	15222.2	25193.4	36358.5	36367.6	38302.4	35864.5
65°	3302.4	3316.1	3910.7	4697.5	6426.4	10323.4	20834.4	36701.5	39372.7	41170.3	37959.3
66°	2941.1	2945.6	3457.9	4098.3	5324.1	8448.1	18401.1	35809.6	40049.6	41549.9	37931.9
67.5°	2479.1	2538.6	2950.2	3444.2	4153.2	6069.7	14600.1	33229.9	39702.0	41019.3	37072.0
70°	1939.4	1971.4	2296.1	2799.3	3114.9	3512.8	8676.8	27087.0	36340.2	38476.2	33943.4
72.5°	1555.1	1582.6	1829.6	2273.3	2529.4	2314.4	4724.9	19654.3	28706.2	30984.0	26698.2
75°	1312.7	1317.3	1436.2	1788.4	2081.2	1738.1	2515.7	12615.0	18419.4	19480.5	16356.5
77.5°	1061.2	1079.5	1161.8	1363.0	1674.1	1367.6	1500.3	7066.8	9248.6	9326.3	7560.8
80°	864.5	873.6	923.9	992.6	1276.1	1010.8	1015.4	3448.8	3965.6	3874.1	3073.7
82.5°	681.5	690.7	750.1	736.4	937.7	722.7	631.2	1660.3	1825.0	1788.4	1413.4
85°	384.2	384.2	590.0	590.0	594.6	457.4	384.2	782.1	965.1	901.1	663.2
87.5°	123.5	128.1	178.4	187.5	297.3	205.8	187.5	292.7	457.4	402.5	237.8
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°	5250.9	5250.9	5250.9	5250.9	5250.9	5250.9	5250.9	5250.9	5250.9	5250.9	5250.9
2.5°	5360.7	5287.5	5255.5	5150.3	5122.8	5054.2	5022.2	4981.0	4967.3	4907.9	4962.8
5°	5401.9	5379.0	5250.9	5118.3	5017.6	4971.9	4903.3	4811.8	4802.7	4720.3	4711.2
7.5°	5575.7	5497.9	5273.8	5132.0	4930.7	4816.4	4665.4	4619.7	4560.2	4532.8	4592.3
10°	5845.5	5648.8	5314.9	4958.2	4711.2	4574.0	4464.2	4432.2	4436.7	4418.5	4391.0
12.5°	6037.6	5850.1	5246.3	4811.8	4491.6	4359.0	4349.8	4381.9	4432.2	4409.3	4441.3
15°	6312.1	5959.9	5196.0	4569.4	4313.3	4276.7	4272.1	4368.1	4363.6	4363.6	4359.0
17.5°	6568.2	6069.7	5013.1	4359.0	4125.7	4153.2	4185.2	4180.6	4226.3	4244.6	4276.7
20°	6893.0	6197.7	4756.9	4148.6	3983.9	3974.8	3970.2	3974.8	4020.5	4048.0	4025.1
22.5°	7176.6	6225.2	4541.9	3947.3	3814.7	3778.1	3718.6	3778.1	3755.2	3764.4	3791.8
25°	7423.5	6229.7	4235.5	3796.4	3645.5	3563.1	3517.4	3512.8	3471.6	3467.1	3467.1
27.5°	7629.4	6074.2	3965.6	3586.0	3444.2	3366.4	3361.9	3311.6	3206.4	3137.7	3146.9
30°	7789.5	5955.3	3778.1	3403.0	3265.8	3252.1	3210.9	3096.6	2959.4	2872.5	2872.5
32.5°	8073.1	5717.5	3522.0	3215.5	3146.9	3128.6	3032.5	2931.9	2803.8	2721.5	2707.8
35°	8283.5	5497.9	3352.7	3055.4	3023.4	2986.8	2904.5	2794.7	2758.1	2739.8	2753.5
37.5°	8521.3	5250.9	3146.9	2918.2	2950.2	2881.6	2785.5	2735.2	2863.3	2831.3	2845.0
40°	8900.9	5077.1	2945.6	2835.9	2867.9	2790.1	2666.6	2648.3	2808.4	2694.1	2666.6
42.5°	9596.2	5072.5	2822.1	2712.4	2735.2	2675.8	2566.0	2556.8	2620.9	2483.7	2442.5
45°	10460.7	5232.6	2730.7	2620.9	2602.6	2593.4	2556.8	2515.7	2460.8	2282.4	2236.7
47.5°	11494.4	5493.3	2712.4	2483.7	2506.5	2584.3	2538.6	2433.3	2291.6	2177.2	2154.3
50°	12747.6	6033.1	2666.6	2383.0	2424.2	2547.7	2511.1	2364.7	2236.7	2163.5	2149.8
52.5°	14133.6	6714.6	2607.2	2227.5	2319.0	2515.7	2534.0	2396.8	2209.2	2145.2	2136.0
55°	15766.5	7720.9	2538.6	2058.3	2195.5	2483.7	2534.0	2305.3	2172.6	2172.6	2163.5
57.5°	18991.1	9532.1	2396.8	1902.8	2085.7	2424.2	2460.8	2309.9	2177.2	2177.2	2158.9
60°	23720.6	12358.9	2126.9	1783.8	1980.5	2341.9	2405.9	2241.2	2126.9	2154.3	2149.8
62.5°	27420.9	13218.8	1898.2	1669.5	1875.3	2190.9	2332.7	2168.1	2067.4	2168.1	2177.2
65°	28212.2	12349.7	1664.9	1546.0	1729.0	2044.6	2227.5	2062.9	1980.5	2177.2	2186.4
66°	27928.6	11672.8	1582.6	1509.4	1664.9	1971.4	2163.5	2026.3	1934.8	2168.1	2172.6
67.5°	26666.2	10657.3	1491.1	1431.7	1578.0	1866.2	2090.3	1976.0	1861.6	2140.6	2099.5
70°	23921.8	9038.2	1335.6	1294.4	1454.5	1692.4	1921.1	1847.9	1747.3	1971.4	1898.2
72.5°	18423.9	7222.3	1170.9	1175.5	1312.7	1514.0	1751.8	1701.5	1614.6	1729.0	1683.2
75°	11219.9	4615.1	1020.0	1029.1	1143.5	1344.7	1591.7	1555.1	1449.9	1514.0	1491.1
77.5°	4971.9	2287.0	859.9	878.2	969.7	1184.7	1385.9	1326.5	1216.7	1230.4	1221.2
80°	1930.2	1084.0	699.8	722.7	782.1	946.8	1148.1	1093.2	997.1	978.8	969.7
82.5°	928.5	603.8	539.7	548.9	571.7	754.7	988.0	919.4	791.3	709.0	709.0
85°	466.5	375.1	379.6	347.6	379.6	512.3	667.8	558.0	462.0	411.7	420.8
87.5°	187.5	187.5	187.5	160.1	169.2	242.4	311.0	210.4	192.1	114.3	114.3
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)