

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: P476622

Luminaire Tested: **IFLD-L-SA7B-740-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476622
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-740-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

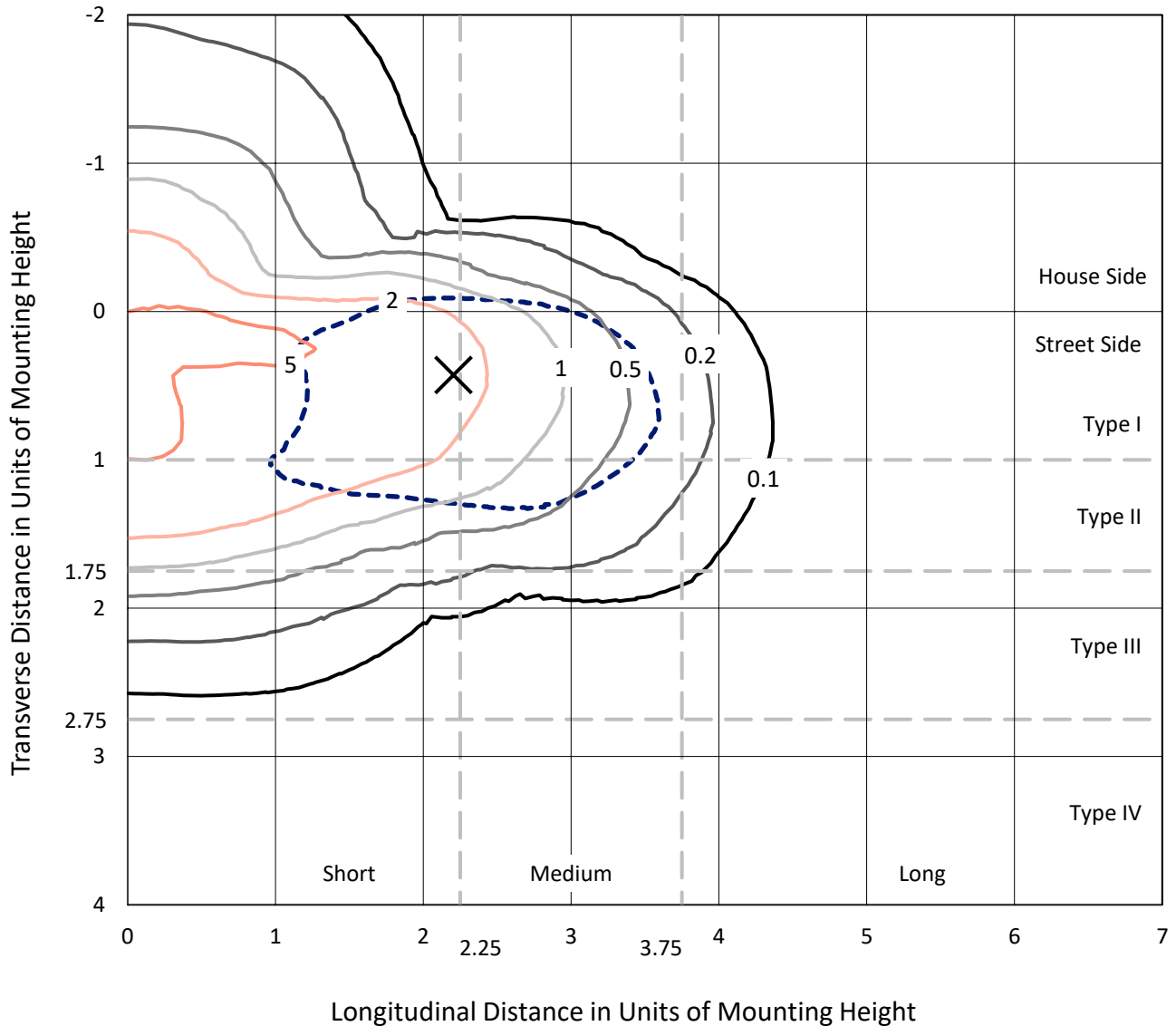
Lumens per Lamp: N/A
Luminaire Lumens: 35569.1 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

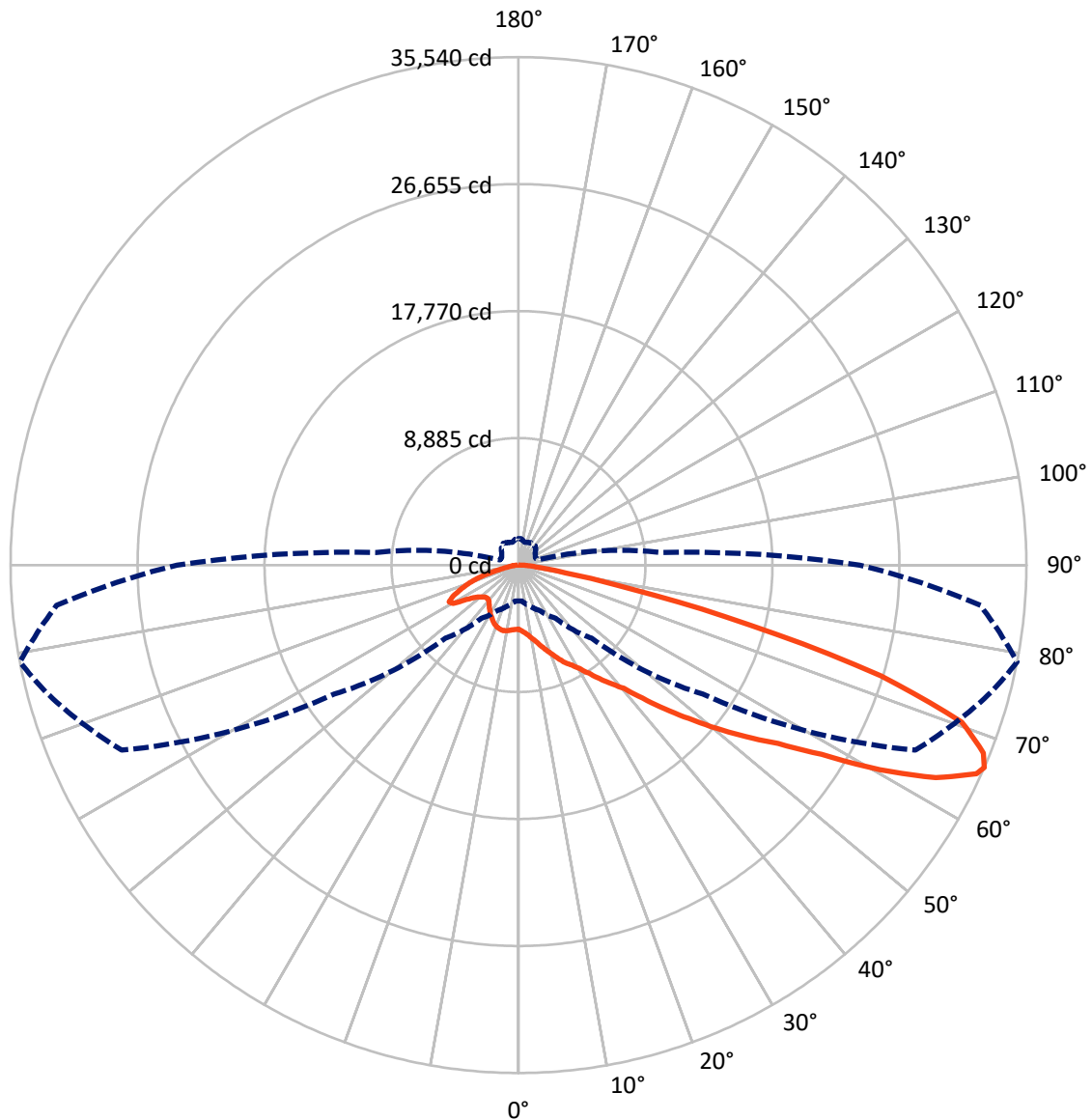
× Max cd
 - - - 1/2 Max cd



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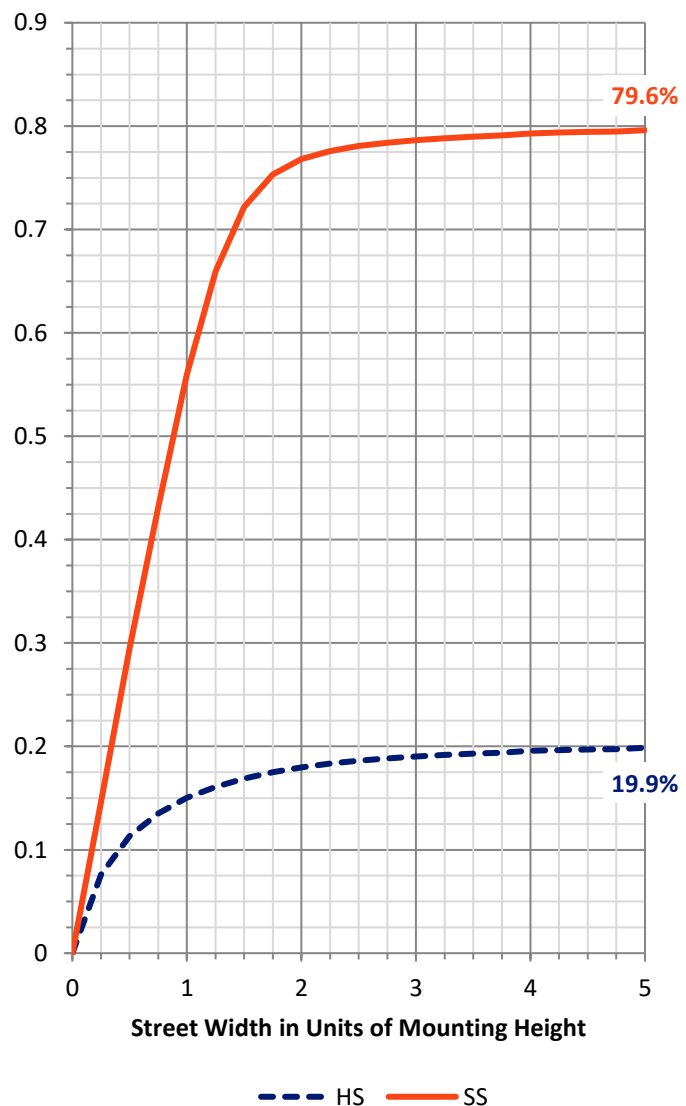
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7182.7	0.0	7182.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	28386.4	0.0	28386.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	35569.1	0.0	35569.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.6	1.2
10°-20°	1363.8	3.8
20°-30°	2340.9	6.6
30°-40°	3616.3	10.2
40°-50°	5792.3	16.3
50°-60°	8648.4	24.3
60°-70°	8886.2	25.0
70°-80°	3939.1	11.1
80°-90°	540.5	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°	35569.1	100.0
0°-180°	35569.1	100.0

Coefficient of Utilization



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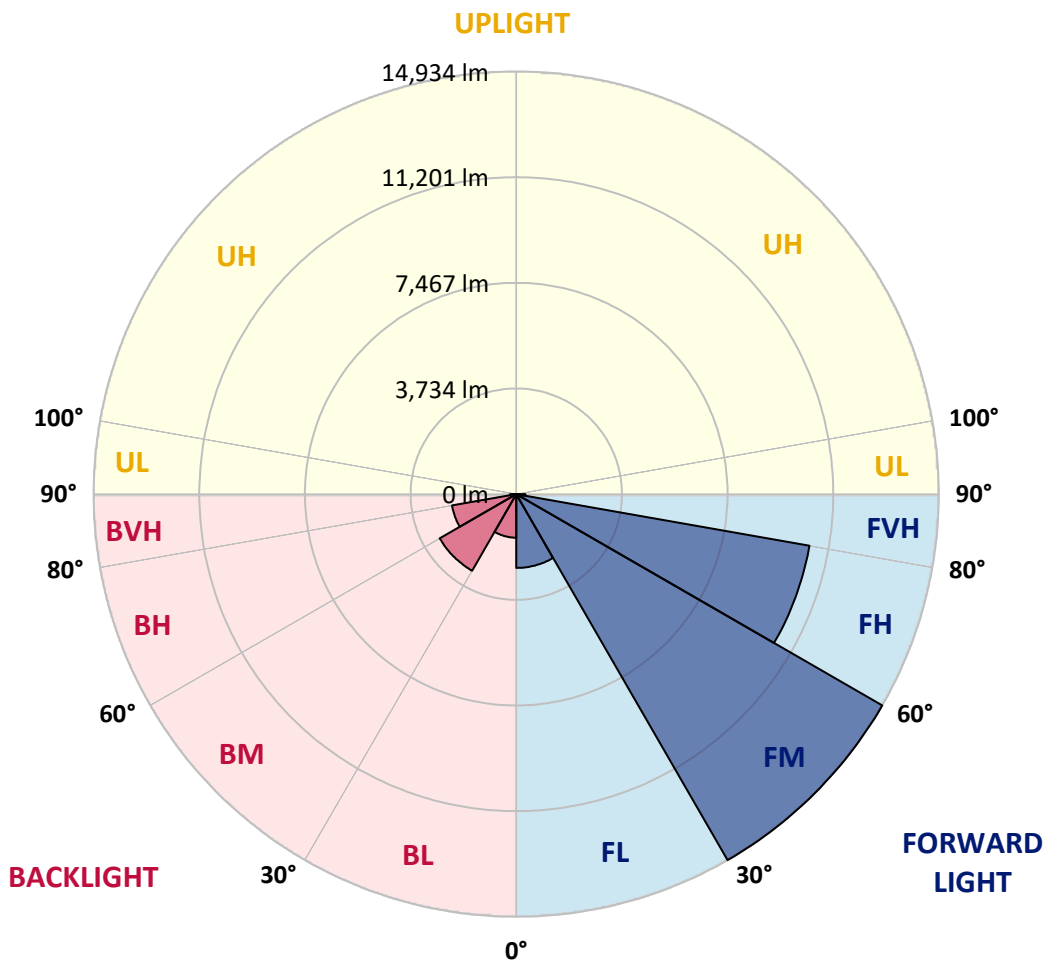
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2607.4	7.3			
FM	(30°-60°)	14934.3	42.0			
FH	(60°-80°)	10520.5	29.6			G4/12000
FVH	(80°-90°)	324.2	0.9			G3/500
BL	(0°-30°)	1538.9	4.3	B3/2500		
BM	(30°-60°)	3122.7	8.8	B3/5000		
BH	(60°-80°)	2304.8	6.5	B3/2500		G3/2500
BVH	(80°-90°)	216.3	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4
2.5°	4777.0	4780.9	4780.9	4765.3	4769.2	4780.9	4737.9	4644.0	4644.0	4628.3	4600.9
5°	5070.4	5050.9	5023.5	5027.4	5011.7	5011.7	4964.8	4874.8	4796.6	4765.3	4683.1
7.5°	5109.5	5129.1	5125.2	5172.1	5195.6	5195.6	5219.1	5144.8	5027.4	4953.0	4870.9
10°	5187.8	5136.9	5133.0	5242.6	5277.8	5359.9	5453.8	5414.7	5316.9	5211.3	5101.7
12.5°	5234.7	5266.0	5266.0	5320.8	5403.0	5524.3	5688.6	5762.9	5610.3	5500.8	5332.5
15°	5305.2	5262.1	5387.3	5434.3	5590.8	5676.8	5911.6	6103.3	6001.6	5868.5	5602.5
17.5°	5336.5	5309.1	5379.5	5465.6	5731.6	5860.7	6146.3	6412.4	6326.3	6240.2	5966.4
20°	5496.9	5493.0	5524.3	5594.7	5786.4	6040.7	6396.7	6764.5	6795.8	6639.3	6267.6
22.5°	5888.1	5837.2	5837.2	5809.9	5892.0	6154.1	6635.4	7144.0	7284.8	7100.9	6608.0
25°	6248.0	6318.5	6275.4	6150.2	6118.9	6255.9	6807.5	7546.9	7734.7	7562.6	7069.6
27.5°	6709.7	6733.2	6807.5	6639.3	6424.1	6467.1	6995.3	7773.9	8161.2	7930.4	7331.8
30°	7374.8	7331.8	7316.1	7128.3	6846.6	6787.9	7210.5	8106.4	8720.7	8395.9	7640.8
32.5°	7824.7	7930.4	7926.4	7668.2	7327.9	7198.7	7476.5	8419.4	9319.2	9018.0	8212.0
35°	8716.7	8826.3	8740.2	8360.7	7961.7	7703.4	7859.9	8826.3	10003.9	9769.2	8697.2
37.5°	9855.2	10113.5	9929.6	9229.3	8665.9	8384.2	8392.0	9268.4	10704.2	10512.5	9217.5
40°	10641.6	10989.8	10735.5	10078.2	9479.7	9213.6	9108.0	9792.6	11541.5	11338.0	10031.3
42.5°	11615.8	11905.3	11772.3	11122.8	10422.5	10195.6	9984.3	10669.0	12820.8	12726.9	11075.9
45°	12680.0	12816.9	12773.9	12363.1	11584.5	11506.3	11040.7	11823.2	14327.1	14366.2	12382.6
47.5°	13669.8	13744.1	13826.3	13528.9	13043.8	13110.3	12257.4	13059.5	15790.3	16048.5	13838.0
50°	13924.1	14178.4	14370.1	14569.6	14675.3	15125.2	13599.4	14577.5	17472.6	17973.4	15457.7
52.5°	13665.9	13646.3	14229.3	14855.2	15911.6	16854.5	15426.4	16463.2	18959.3	19949.1	16940.5
55°	12492.2	12453.0	13392.0	14221.4	16283.2	17816.9	18036.0	18975.0	20755.1	22042.2	18947.6
57.5°	10438.2	10195.6	11220.7	12582.2	15477.3	17922.5	20657.3	22703.4	23517.2	24984.3	22010.9
60°	7014.9	6913.1	7895.1	9518.8	12566.5	16424.1	22226.1	27370.9	27410.0	29061.0	26764.5
62.5°	4319.2	4338.8	4968.7	6185.4	8798.9	13020.3	21549.3	31099.4	31107.2	32762.1	30676.8
65°	2824.7	2836.5	3345.1	4018.0	5496.9	8830.2	17820.8	31392.8	33677.6	35215.2	32468.7
66°	2515.6	2519.6	2957.7	3505.5	4554.0	7226.1	15739.4	30629.9	34256.6	35539.9	32445.2
67.5°	2120.5	2171.4	2523.5	2946.0	3552.4	5191.7	12488.3	28423.3	33959.3	35086.1	31709.7
70°	1658.8	1686.2	1964.0	2394.4	2664.3	3004.7	7421.7	23169.0	31083.7	32910.8	29033.6
72.5°	1330.2	1353.7	1564.9	1944.4	2163.5	1979.7	4041.5	16811.4	24554.0	26502.3	22836.5
75°	1122.8	1126.8	1228.5	1529.7	1780.1	1486.7	2151.8	10790.3	15755.1	16662.7	13990.6
77.5°	907.7	923.3	993.7	1165.9	1431.9	1169.8	1283.3	6044.6	7910.8	7977.3	6467.1
80°	739.4	747.3	790.3	849.0	1091.5	864.6	868.5	2949.9	3392.0	3313.8	2629.1
82.5°	582.9	590.8	641.6	629.9	802.0	618.2	539.9	1420.2	1561.0	1529.7	1208.9
85°	328.6	328.6	504.7	504.7	508.6	391.2	328.6	669.0	825.5	770.7	567.3
87.5°	105.6	109.5	152.6	160.4	254.3	176.1	160.4	250.4	391.2	344.3	203.4
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°	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4	4491.4
2.5°	4585.3	4522.7	4495.3	4405.3	4381.8	4323.2	4295.8	4260.6	4248.8	4198.0	4244.9
5°	4620.5	4600.9	4491.4	4377.9	4291.9	4252.7	4194.1	4115.8	4108.0	4037.6	4029.7
7.5°	4769.2	4702.7	4511.0	4389.7	4217.5	4119.7	3990.6	3951.5	3900.6	3877.2	3928.0
10°	5000.0	4831.8	4546.2	4241.0	4029.7	3912.4	3818.5	3791.1	3795.0	3779.3	3755.9
12.5°	5164.3	5003.9	4487.5	4115.8	3841.9	3728.5	3720.7	3748.0	3791.1	3771.5	3798.9
15°	5399.1	5097.8	4444.4	3908.4	3689.4	3658.1	3654.1	3736.3	3732.4	3732.4	3728.5
17.5°	5618.2	5191.7	4287.9	3728.5	3528.9	3552.4	3579.8	3575.9	3615.0	3630.7	3658.1
20°	5895.9	5301.2	4068.9	3548.5	3407.7	3399.8	3395.9	3399.8	3439.0	3462.4	3442.9
22.5°	6138.5	5324.7	3885.0	3376.4	3262.9	3231.6	3180.7	3231.6	3212.0	3219.9	3243.3
25°	6349.8	5328.6	3622.8	3247.3	3118.2	3047.7	3008.6	3004.7	2969.5	2965.6	2965.6
27.5°	6525.8	5195.6	3392.0	3067.3	2946.0	2879.5	2875.6	2832.5	2742.6	2683.9	2691.7
30°	6662.8	5093.9	3231.6	2910.8	2793.4	2781.7	2746.5	2648.7	2531.3	2457.0	2457.0
32.5°	6905.3	4890.5	3012.5	2750.4	2691.7	2676.1	2593.9	2507.8	2398.3	2327.9	2316.1
35°	7085.3	4702.7	2867.8	2613.5	2586.1	2554.8	2484.3	2390.5	2359.2	2343.5	2355.2
37.5°	7288.7	4491.4	2691.7	2496.1	2523.5	2464.8	2382.6	2339.6	2449.1	2421.8	2433.5
40°	7613.5	4342.7	2519.6	2425.7	2453.1	2386.5	2280.9	2265.3	2402.2	2304.4	2280.9
42.5°	8208.1	4338.8	2413.9	2320.0	2339.6	2288.7	2194.8	2187.0	2241.8	2124.4	2089.2
45°	8947.6	4475.7	2335.7	2241.8	2226.1	2218.3	2187.0	2151.8	2104.9	1952.3	1913.1
47.5°	9831.8	4698.7	2320.0	2124.4	2144.0	2210.5	2171.4	2081.4	1960.1	1862.3	1842.7
50°	10903.8	5160.4	2280.9	2038.3	2073.6	2179.2	2147.9	2022.7	1913.1	1850.5	1838.8
52.5°	12089.2	5743.3	2230.0	1905.3	1983.6	2151.8	2167.4	2050.1	1889.7	1834.9	1827.1
55°	13485.9	6604.1	2171.4	1760.6	1877.9	2124.4	2167.4	1971.8	1858.4	1858.4	1850.5
57.5°	16244.1	8153.4	2050.1	1627.5	1784.0	2073.6	2104.9	1975.7	1862.3	1862.3	1846.6
60°	20289.5	10571.2	1819.2	1525.8	1694.1	2003.1	2057.9	1917.1	1819.2	1842.7	1838.8
62.5°	23454.6	11306.7	1623.6	1428.0	1604.1	1874.0	1995.3	1854.5	1768.4	1854.5	1862.3
65°	24131.4	10563.4	1424.1	1322.4	1478.9	1748.8	1905.3	1764.5	1694.1	1862.3	1870.1
66°	23888.9	9984.3	1353.7	1291.1	1424.1	1686.2	1850.5	1733.2	1654.9	1854.5	1858.4
67.5°	22809.1	9115.8	1275.4	1224.6	1349.8	1596.2	1787.9	1690.1	1592.3	1831.0	1795.8
70°	20461.6	7730.8	1142.4	1107.2	1244.1	1447.6	1643.2	1580.6	1494.5	1686.2	1623.6
72.5°	15759.0	6177.6	1001.6	1005.5	1122.8	1295.0	1498.4	1455.4	1381.1	1478.9	1439.7
75°	9597.0	3947.6	872.5	880.3	978.1	1150.2	1361.5	1330.2	1240.2	1295.0	1275.4
77.5°	4252.7	1956.2	735.5	751.2	829.4	1013.3	1185.4	1134.6	1040.7	1052.4	1044.6
80°	1651.0	927.2	598.6	618.2	669.0	809.9	982.0	935.1	852.9	837.2	829.4
82.5°	794.2	516.4	461.7	469.5	489.0	645.5	845.1	786.4	676.8	606.4	606.4
85°	399.1	320.8	324.7	297.3	324.7	438.2	571.2	477.3	395.1	352.1	359.9
87.5°	160.4	160.4	160.4	136.9	144.8	207.4	266.0	180.0	164.3	97.8	97.8
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)