

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: P476549

Luminaire Tested: **IFLD-L-SA8B-730-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476549
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-730-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

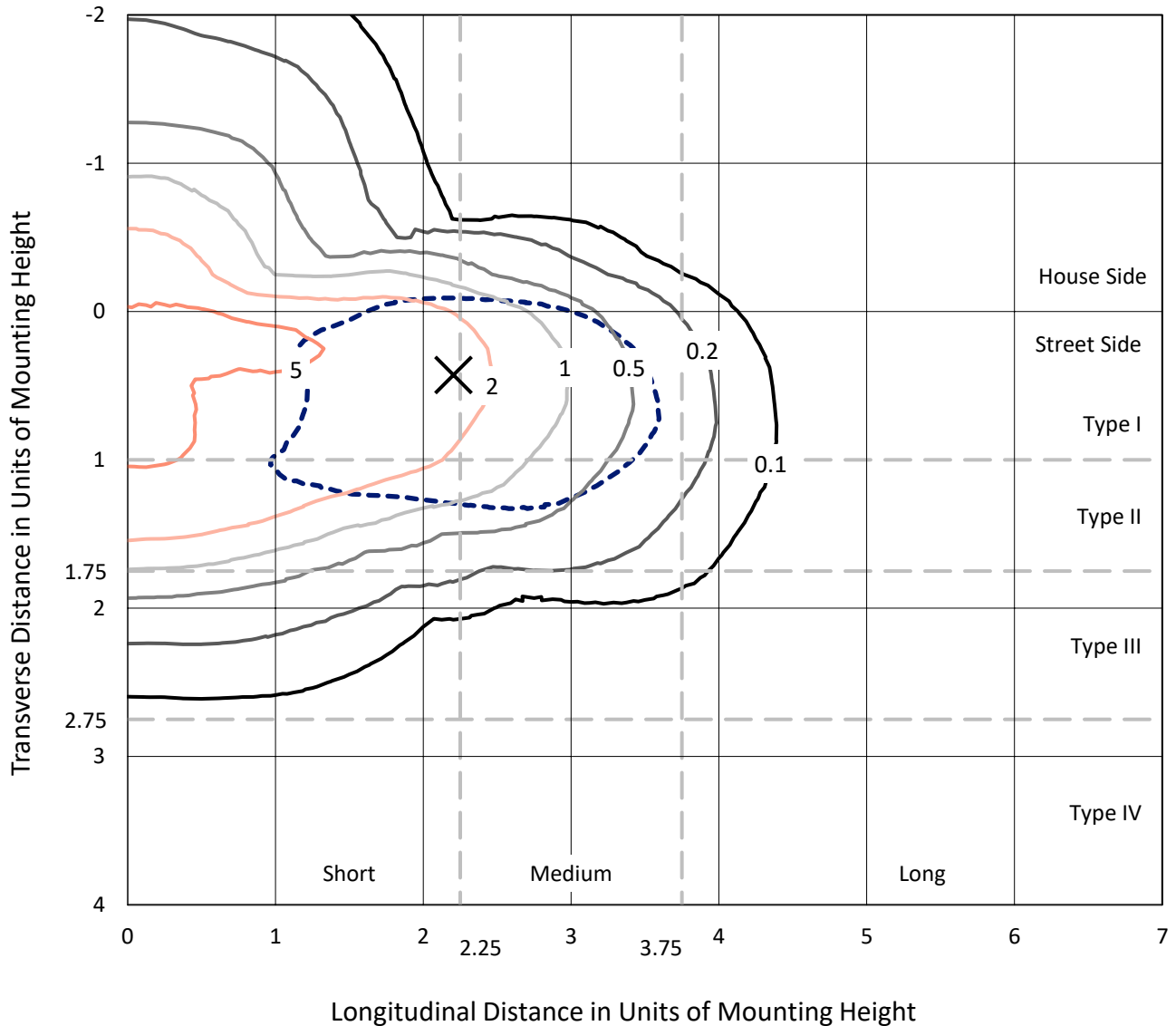
Lumens per Lamp: N/A
Luminaire Lumens: 37015.5 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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

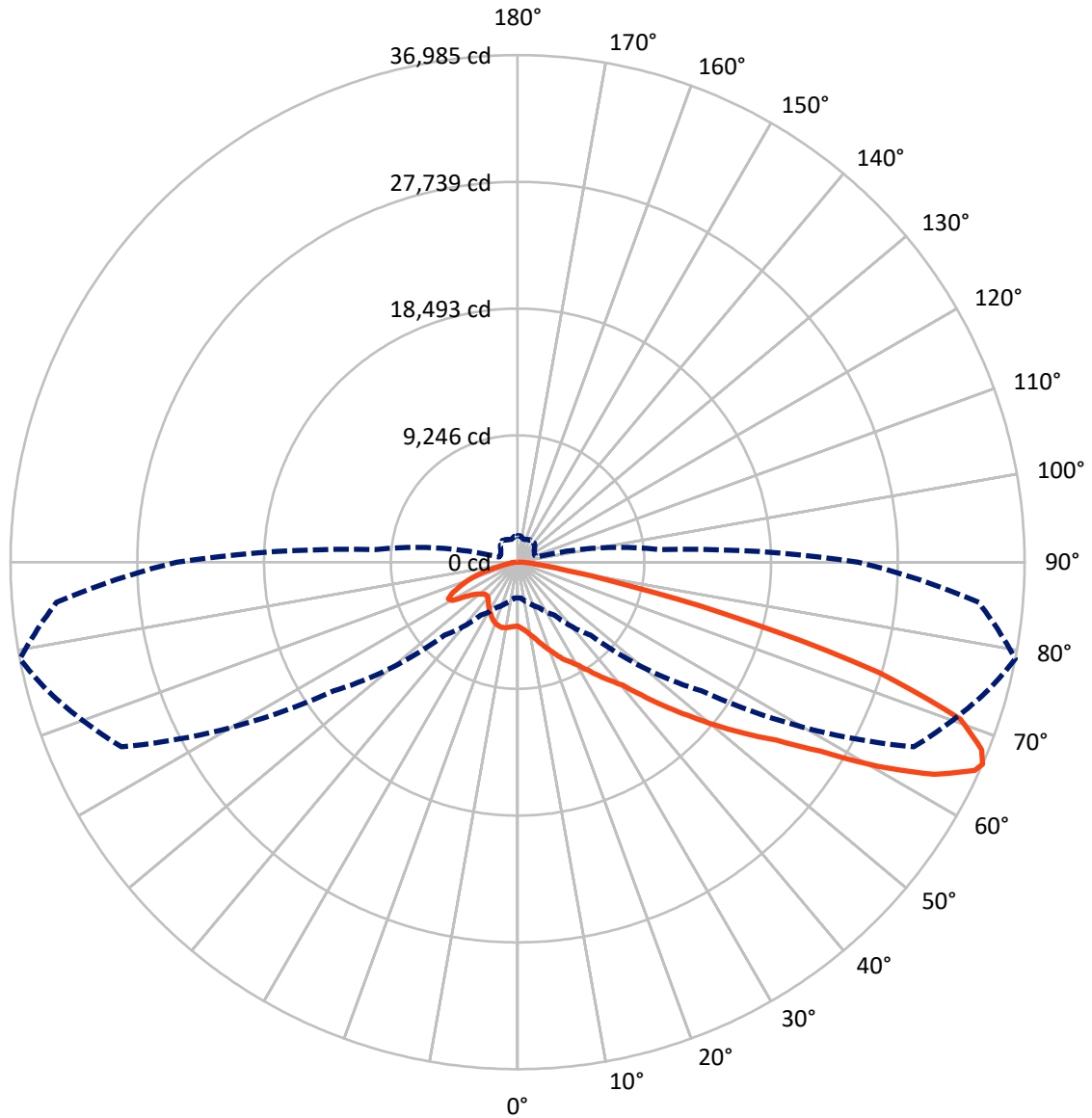
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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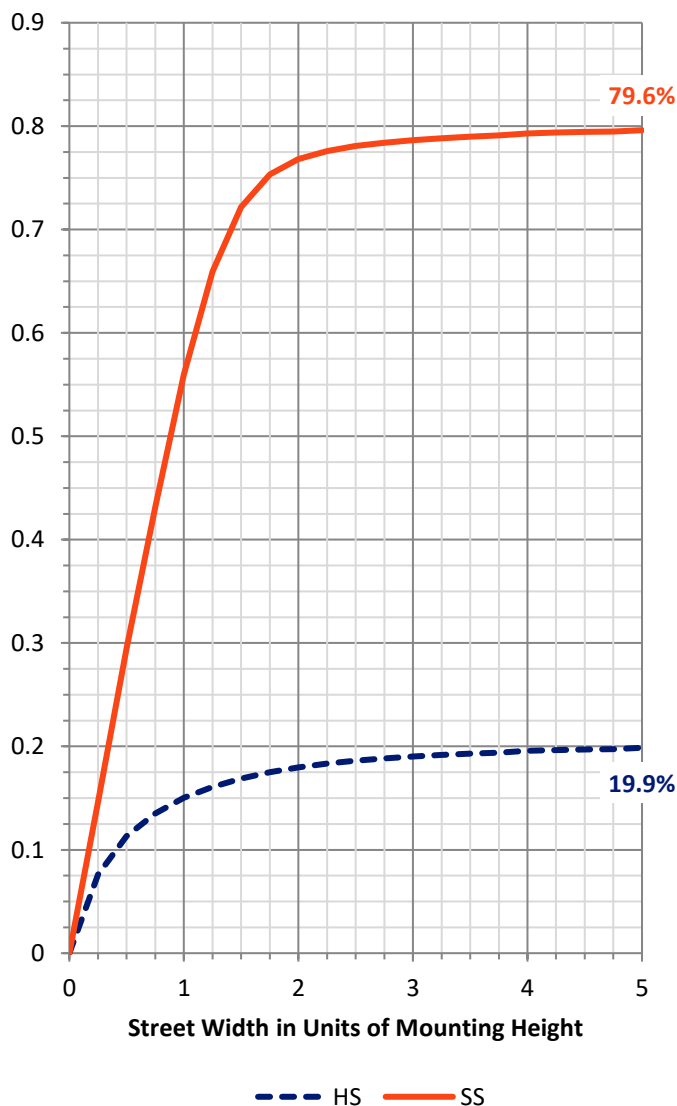
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7474.8	0.0	7474.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	29540.7	0.0	29540.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	37015.5	0.0	37015.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.6	1.2
10°-20°	1419.2	3.8
20°-30°	2436.1	6.6
30°-40°	3763.3	10.2
40°-50°	6027.9	16.3
50°-60°	9000.0	24.3
60°-70°	9247.6	25.0
70°-80°	4099.3	11.1
80°-90°	562.5	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°	37015.5	100.0
0°-180°	37015.5	100.0

Coefficient of Utilization



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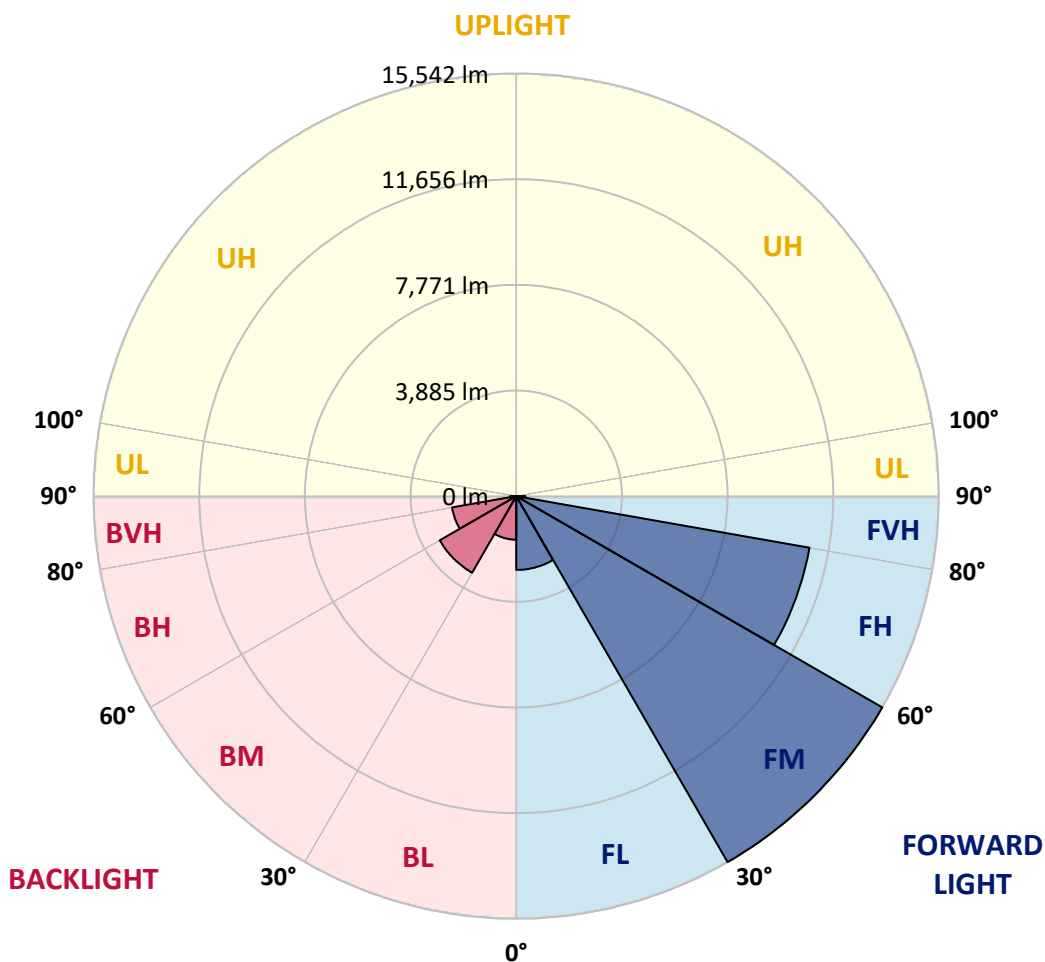
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2713.5	7.3			
FM (30°-60°)	15541.6	42.0			
FH (60°-80°)	10948.4	29.6			G4/12000
FVH (80°-90°)	337.3	0.9			G3/500
BL (0°-30°)	1601.5	4.3	B3/2500		
BM (30°-60°)	3249.7	8.8	B3/5000		
BH (60°-80°)	2398.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	225.1	0.6			G3/500
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°	4674.0	4674.0	4674.0	4674.0	4674.0	4674.0	4674.0	4674.0	4674.0	4674.0	4674.0
2.5°	4971.2	4975.3	4975.3	4959.0	4963.1	4975.3	4930.5	4832.8	4832.8	4816.5	4788.0
5°	5276.6	5256.2	5227.7	5231.8	5215.5	5215.5	5166.7	5073.0	4991.6	4959.0	4873.5
7.5°	5317.3	5337.7	5333.6	5382.5	5406.9	5406.9	5431.3	5354.0	5231.8	5154.5	5069.0
10°	5398.7	5345.8	5341.7	5455.7	5492.4	5577.9	5675.6	5634.9	5533.1	5423.2	5309.2
12.5°	5447.6	5480.2	5480.2	5537.2	5622.7	5748.9	5919.9	5997.3	5838.5	5724.5	5549.4
15°	5520.9	5476.1	5606.4	5655.3	5818.1	5907.7	6152.0	6351.5	6245.6	6107.2	5830.3
17.5°	5553.5	5525.0	5598.3	5687.8	5964.7	6099.0	6396.3	6673.1	6583.5	6494.0	6209.0
20°	5720.4	5716.3	5748.9	5822.2	6021.7	6286.3	6656.8	7039.5	7072.1	6909.3	6522.5
22.5°	6127.5	6074.6	6074.6	6046.1	6131.6	6404.4	6905.2	7434.5	7581.0	7389.7	6876.7
25°	6502.1	6575.4	6530.6	6400.3	6367.8	6510.3	7084.3	7853.8	8049.3	7870.1	7357.1
27.5°	6982.5	7007.0	7084.3	6909.3	6685.3	6730.1	7279.8	8090.0	8493.1	8252.8	7629.9
30°	7674.7	7629.9	7613.6	7418.2	7125.0	7064.0	7503.7	8436.1	9075.3	8737.3	7951.6
32.5°	8142.9	8252.8	8248.8	7980.1	7625.8	7491.5	7780.6	8761.8	9698.2	9384.7	8546.0
35°	9071.2	9185.2	9095.6	8700.7	8285.4	8016.7	8179.6	9185.2	10410.7	10166.4	9050.8
37.5°	10256.0	10524.7	10333.4	9604.6	9018.3	8725.1	8733.3	9645.3	11139.5	10940.0	9592.3
40°	11074.4	11436.7	11172.1	10488.1	9865.1	9588.3	9478.3	10190.9	12010.8	11799.1	10439.2
42.5°	12088.1	12389.4	12251.0	11575.1	10846.4	10610.2	10390.4	11102.9	13342.2	13244.4	11526.3
45°	13195.6	13338.1	13293.3	12865.8	12055.6	11974.1	11489.6	12303.9	14909.7	14950.4	12886.2
47.5°	14225.7	14303.0	14388.5	14079.1	13574.2	13643.4	12755.9	13590.5	16432.4	16701.1	14400.7
50°	14490.3	14755.0	14954.5	15162.1	15272.0	15740.2	14152.4	15170.2	18183.1	18704.3	16086.3
52.5°	14221.6	14201.2	14807.9	15459.3	16558.6	17539.8	16053.7	17132.7	19730.3	20760.3	17629.4
55°	13000.2	12959.4	13936.6	14799.7	16945.4	18541.4	18769.4	19746.6	21599.1	22938.6	19718.1
57.5°	10862.6	10610.2	11676.9	13093.8	16106.7	18651.3	21497.3	23626.7	24473.5	26000.3	22906.0
60°	7300.1	7194.3	8216.2	9905.8	13077.5	17092.0	23129.9	28483.9	28524.6	30242.8	27852.8
62.5°	4494.9	4515.2	5170.7	6437.0	9156.7	13549.8	22425.6	32364.0	32372.1	34094.4	31924.3
65°	2939.6	2951.8	3481.1	4181.4	5720.4	9189.3	18545.5	32669.4	35047.1	36647.2	33789.0
66°	2617.9	2622.0	3078.0	3648.0	4739.2	7520.0	16379.5	31875.4	35649.7	36985.1	33764.6
67.5°	2206.7	2259.7	2626.1	3065.8	3696.9	5402.8	12996.1	29579.1	35340.2	36512.8	32999.1
70°	1726.3	1754.8	2043.9	2491.7	2772.7	3126.9	7723.5	24111.2	32347.7	34249.1	30214.3
72.5°	1384.3	1408.7	1628.6	2023.5	2251.5	2060.2	4205.8	17495.0	25552.5	27580.0	23765.1
75°	1168.5	1172.6	1278.4	1591.9	1852.5	1547.2	2239.3	11229.1	16395.7	17340.3	14559.5
77.5°	944.6	960.9	1034.1	1213.3	1490.2	1217.4	1335.4	6290.4	8232.5	8301.7	6730.1
80°	769.5	777.6	822.4	883.5	1135.9	899.8	903.9	3069.9	3530.0	3448.5	2736.0
82.5°	606.6	614.8	667.7	655.5	834.6	643.3	561.9	1477.9	1624.5	1591.9	1258.1
85°	342.0	342.0	525.2	525.2	529.3	407.1	342.0	696.2	859.1	802.1	590.4
87.5°	109.9	114.0	158.8	166.9	264.6	183.2	166.9	260.6	407.1	358.3	211.7
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°	4674.0	4674.0	4674.0	4674.0	4674.0	4674.0	4674.0	4674.0	4674.0	4674.0	4674.0
2.5°	4771.7	4706.6	4678.1	4584.5	4560.0	4499.0	4470.5	4433.8	4421.6	4368.7	4417.5
5°	4808.4	4788.0	4674.0	4556.0	4466.4	4425.7	4364.6	4283.2	4275.0	4201.7	4193.6
7.5°	4963.1	4893.9	4694.4	4568.2	4389.0	4287.2	4152.9	4112.2	4059.2	4034.8	4087.7
10°	5203.3	5028.2	4731.0	4413.5	4193.6	4071.5	3973.7	3945.2	3949.3	3933.0	3908.6
12.5°	5374.3	5207.4	4670.0	4283.2	3998.2	3880.1	3872.0	3900.5	3945.2	3924.9	3953.4
15°	5618.6	5305.1	4625.2	4067.4	3839.4	3806.8	3802.7	3888.2	3884.2	3884.2	3880.1
17.5°	5846.6	5402.8	4462.3	3880.1	3672.5	3696.9	3725.4	3721.3	3762.0	3778.3	3806.8
20°	6135.7	5516.8	4234.3	3692.8	3546.2	3538.1	3534.0	3538.1	3578.8	3603.2	3582.9
22.5°	6388.1	5541.3	4043.0	3513.7	3395.6	3363.0	3310.1	3363.0	3342.7	3350.8	3375.2
25°	6608.0	5545.3	3770.2	3379.3	3244.9	3171.7	3130.9	3126.9	3090.2	3086.2	3086.2
27.5°	6791.2	5406.9	3530.0	3192.0	3065.8	2996.6	2992.5	2947.7	2854.1	2793.0	2801.2
30°	6933.7	5301.0	3363.0	3029.2	2907.0	2894.8	2858.2	2756.4	2634.2	2556.9	2556.9
32.5°	7186.1	5089.3	3135.0	2862.2	2801.2	2784.9	2699.4	2609.8	2495.8	2422.5	2410.3
35°	7373.4	4893.9	2984.4	2719.7	2691.2	2658.7	2585.4	2487.7	2455.1	2438.8	2451.0
37.5°	7585.1	4674.0	2801.2	2597.6	2626.1	2565.0	2479.5	2434.7	2548.7	2520.2	2532.4
40°	7923.1	4519.3	2622.0	2524.3	2552.8	2483.6	2373.7	2357.4	2499.9	2398.1	2373.7
42.5°	8541.9	4515.2	2512.1	2414.4	2434.7	2381.8	2284.1	2275.9	2332.9	2210.8	2174.2
45°	9311.4	4657.7	2430.7	2332.9	2316.7	2308.5	2275.9	2239.3	2190.4	2031.7	1990.9
47.5°	10231.6	4889.8	2414.4	2210.8	2231.2	2300.4	2259.7	2166.0	2039.8	1938.0	1917.7
50°	11347.1	5370.2	2373.7	2121.2	2157.9	2267.8	2235.2	2104.9	1990.9	1925.8	1913.6
52.5°	12580.8	5976.9	2320.7	1982.8	2064.2	2239.3	2255.6	2133.4	1966.5	1909.5	1901.4
55°	14034.3	6872.6	2259.7	1832.2	1954.3	2210.8	2255.6	2052.0	1933.9	1933.9	1925.8
57.5°	16904.7	8484.9	2133.4	1693.7	1856.6	2157.9	2190.4	2056.1	1938.0	1938.0	1921.7
60°	21114.6	11001.1	1893.2	1587.9	1762.9	2084.6	2141.6	1995.0	1893.2	1917.7	1913.6
62.5°	24408.4	11766.5	1689.7	1486.1	1669.3	1950.2	2076.4	1929.9	1840.3	1929.9	1938.0
65°	25112.7	10992.9	1482.0	1376.2	1539.0	1819.9	1982.8	1836.2	1762.9	1938.0	1946.2
66°	24860.3	10390.4	1408.7	1343.6	1482.0	1754.8	1925.8	1803.7	1722.2	1929.9	1933.9
67.5°	23736.6	9486.5	1327.3	1274.4	1404.7	1661.2	1860.7	1758.9	1657.1	1905.4	1868.8
70°	21293.7	8045.2	1188.9	1152.2	1294.7	1506.4	1710.0	1644.9	1555.3	1754.8	1689.7
72.5°	16399.8	6428.8	1042.3	1046.4	1168.5	1347.7	1559.4	1514.6	1437.2	1539.0	1498.3
75°	9987.3	4108.1	907.9	916.1	1017.9	1197.0	1416.9	1384.3	1290.7	1347.7	1327.3
77.5°	4425.7	2035.7	765.4	781.7	863.1	1054.5	1233.7	1180.7	1083.0	1095.2	1087.1
80°	1718.2	964.9	622.9	643.3	696.2	842.8	1021.9	973.1	887.6	871.3	863.1
82.5°	826.5	537.4	480.4	488.6	508.9	671.8	879.4	818.4	704.4	631.1	631.1
85°	415.3	333.9	337.9	309.4	337.9	456.0	594.4	496.7	411.2	366.4	374.6
87.5°	166.9	166.9	166.9	142.5	150.6	215.8	276.9	187.3	171.0	101.8	101.8
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)