

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: P476497

Luminaire Tested: **IFLD-S-SA6D-727-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476497
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

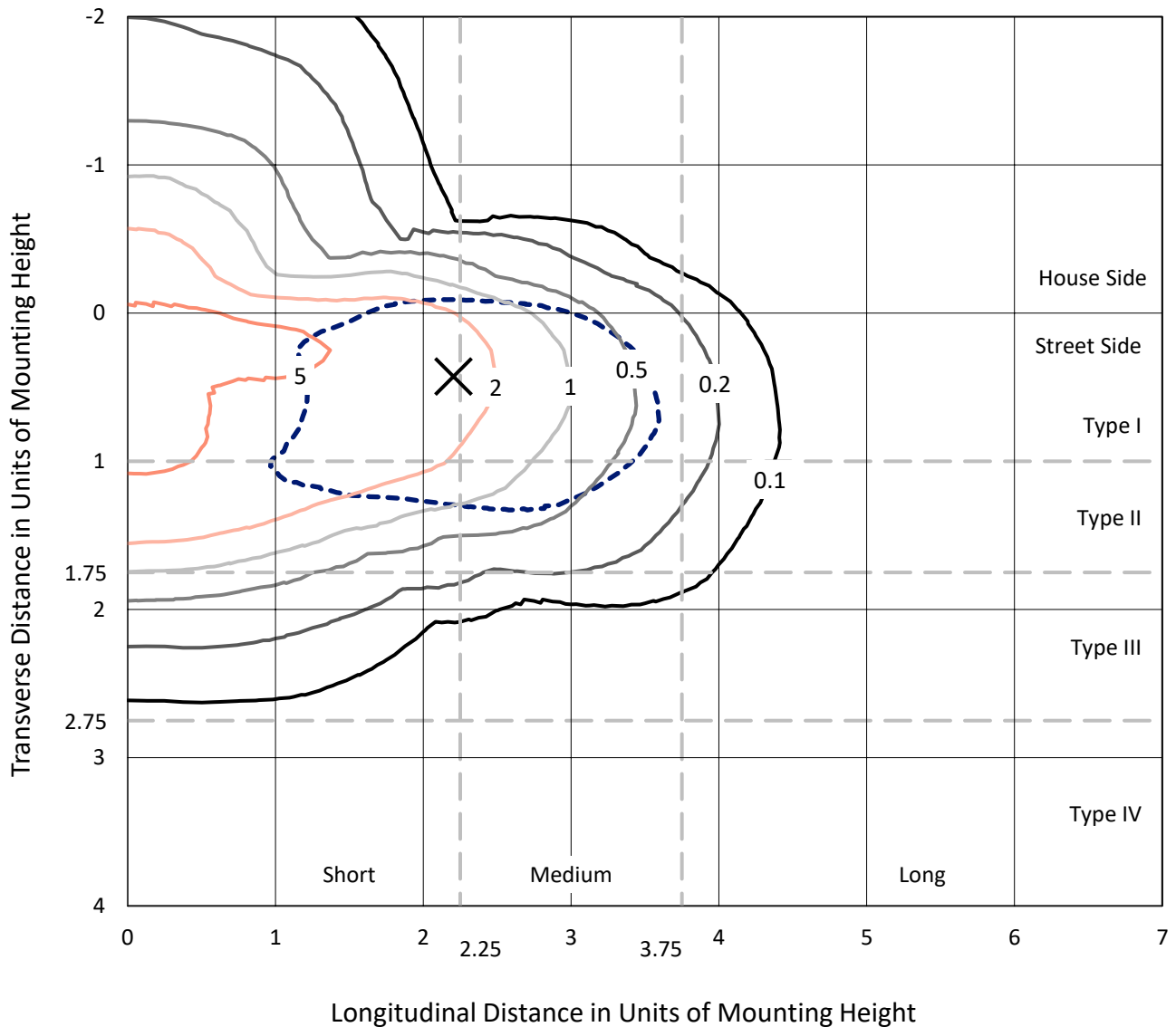
Lumens per Lamp: N/A
Luminaire Lumens: 38191 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

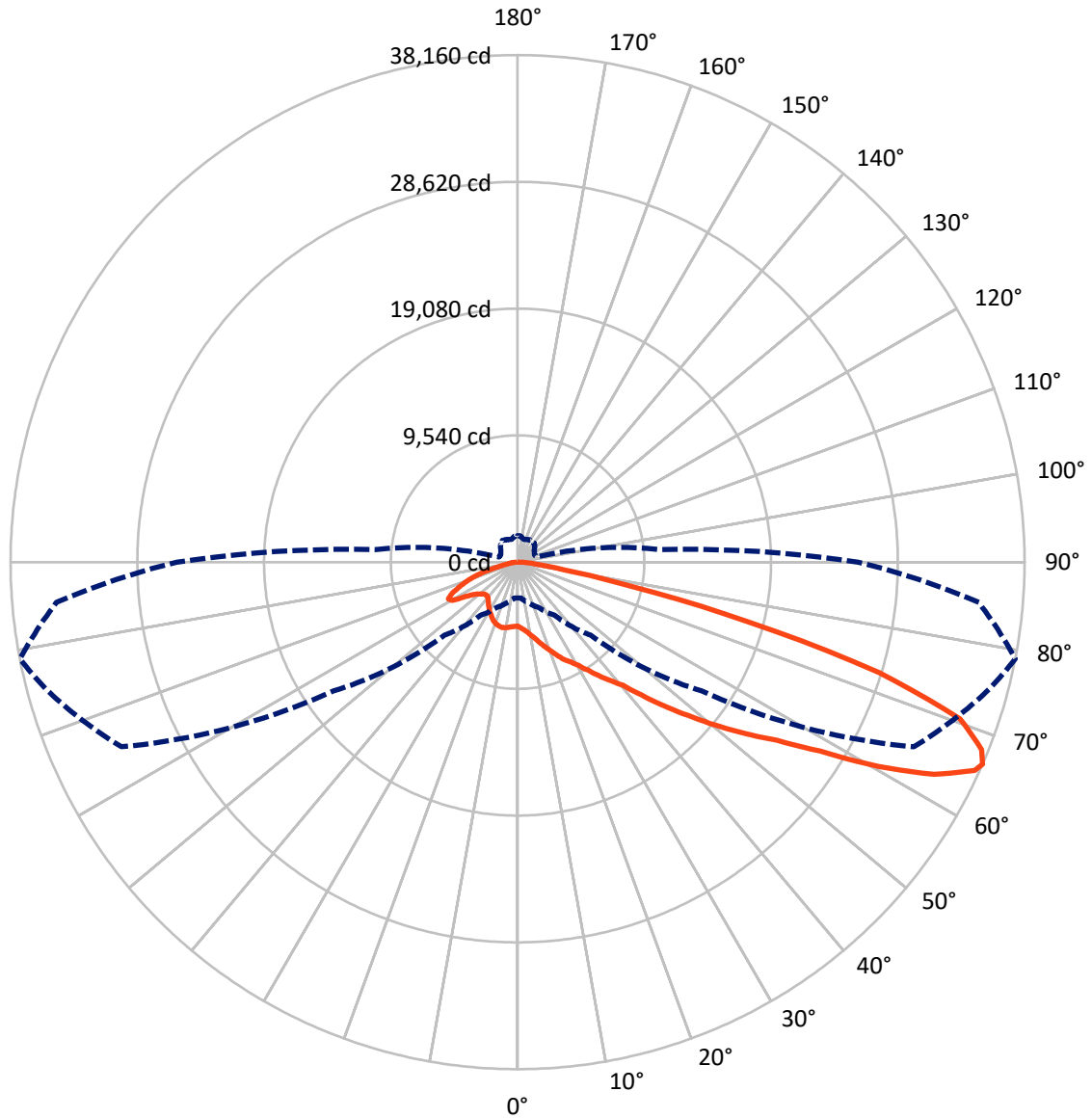
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 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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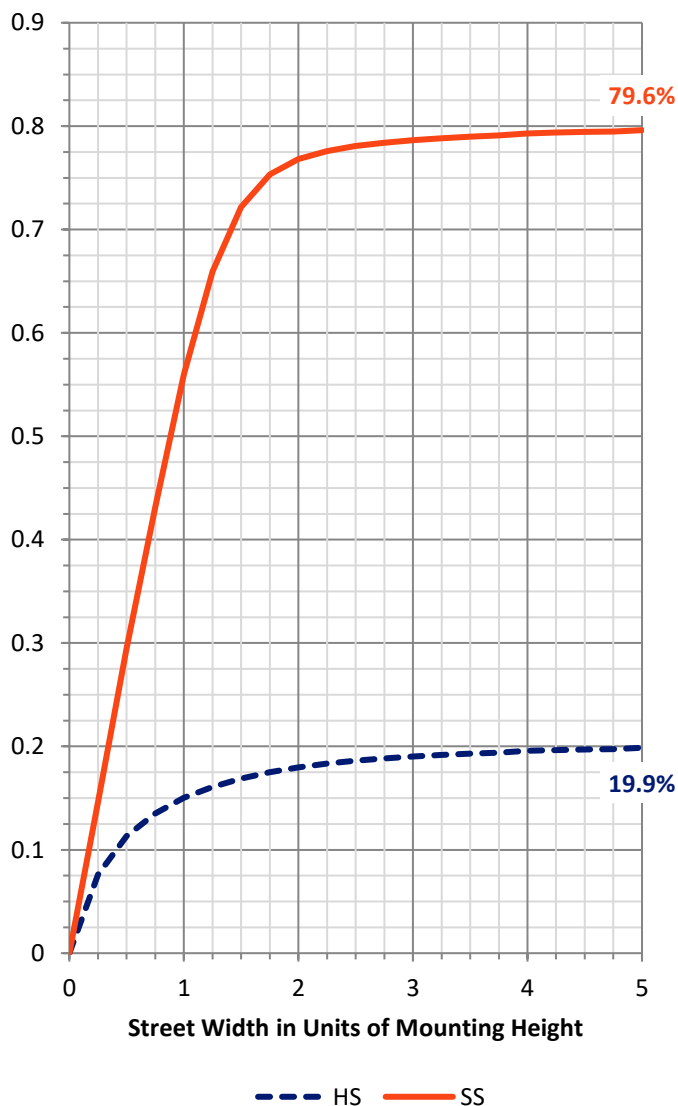
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7712.2	0.0	7712.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	30478.9	0.0	30478.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	38191.0	0.0	38191.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.2	1.2
10°-20°	1464.3	3.8
20°-30°	2513.5	6.6
30°-40°	3882.8	10.2
40°-50°	6219.3	16.3
50°-60°	9285.9	24.3
60°-70°	9541.2	25.0
70°-80°	4229.5	11.1
80°-90°	580.3	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°	38191.0	100.0
0°-180°	38191.0	100.0

Coefficient of Utilization



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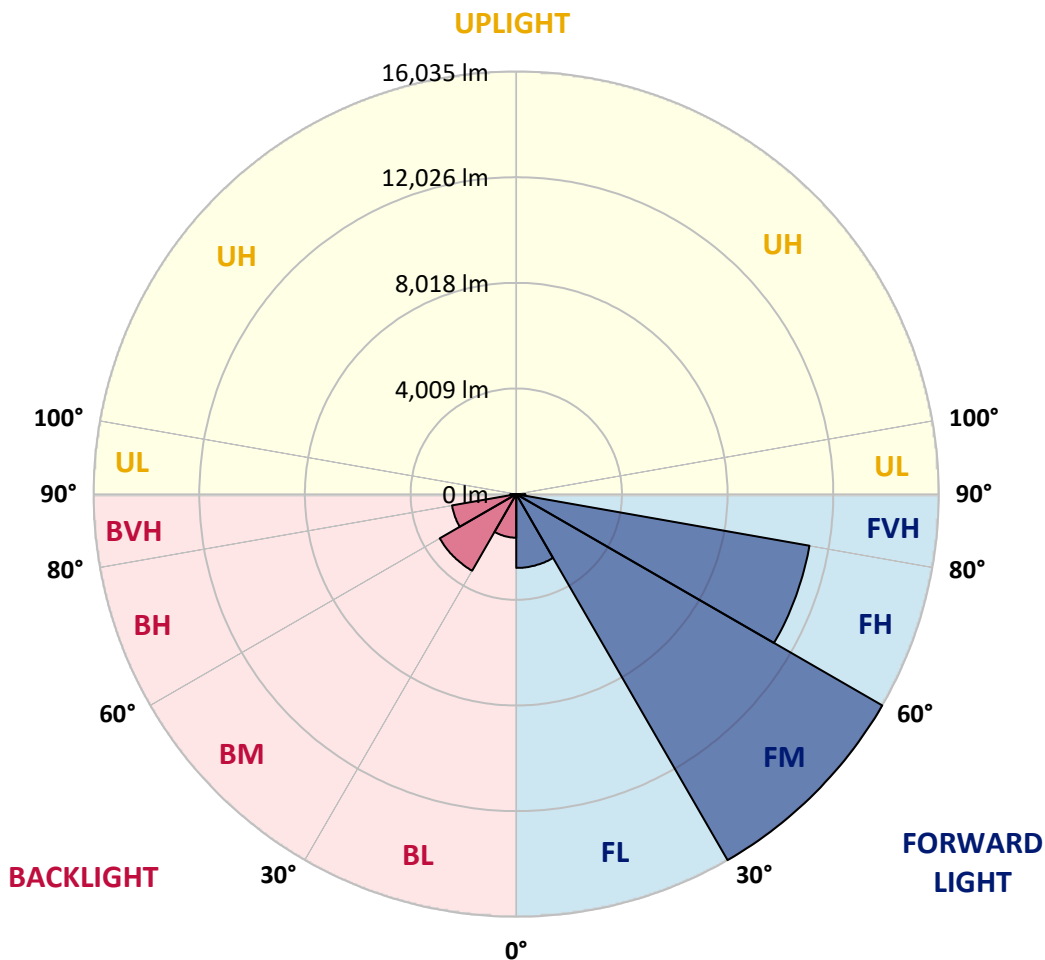
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2799.6	7.3			
FM (30°-60°)	16035.1	42.0			
FH (60°-80°)	11296.1	29.6			G4/12000
FVH (80°-90°)	348.1	0.9			G3/500
BL (0°-30°)	1652.3	4.3	B3/2500		
BM (30°-60°)	3352.9	8.8	B3/5000		
BH (60°-80°)	2474.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	232.3	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°	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5
2.5°	5129.1	5133.3	5133.3	5116.5	5120.7	5133.3	5087.1	4986.3	4986.3	4969.5	4940.1
5°	5444.2	5423.2	5393.8	5398.0	5381.2	5381.2	5330.8	5234.1	5150.1	5116.5	5028.3
7.5°	5486.2	5507.2	5503.0	5553.4	5578.6	5578.6	5603.8	5524.0	5398.0	5318.2	5229.9
10°	5570.2	5515.6	5511.4	5629.0	5666.8	5755.0	5855.9	5813.8	5708.8	5595.4	5477.8
12.5°	5620.6	5654.2	5654.2	5713.0	5801.2	5931.5	6107.9	6187.7	6023.9	5906.3	5725.6
15°	5696.2	5650.0	5784.4	5834.8	6002.9	6095.3	6347.3	6553.2	6444.0	6301.1	6015.5
17.5°	5729.8	5700.4	5776.0	5868.5	6154.1	6292.7	6599.4	6885.0	6792.6	6700.2	6406.2
20°	5902.1	5897.9	5931.5	6007.1	6212.9	6486.0	6868.2	7263.1	7296.7	7128.7	6729.6
22.5°	6322.1	6267.5	6267.5	6238.1	6326.3	6607.8	7124.5	7670.6	7821.8	7624.4	7095.1
25°	6708.6	6784.2	6738.0	6603.6	6570.0	6717.0	7309.3	8103.3	8304.9	8120.1	7590.8
27.5°	7204.3	7229.5	7309.3	7128.7	6897.6	6943.8	7511.0	8346.9	8762.8	8514.9	7872.2
30°	7918.4	7872.2	7855.4	7653.8	7351.3	7288.3	7742.0	8704.0	9363.5	9014.8	8204.1
32.5°	8401.5	8514.9	8510.7	8233.5	7868.0	7729.4	8027.6	9040.0	10006.2	9682.7	8817.4
35°	9359.3	9476.9	9384.5	8977.0	8548.5	8271.3	8439.3	9476.9	10741.3	10489.3	9338.3
37.5°	10581.7	10859.0	10661.5	9909.6	9304.7	9002.2	9010.6	9951.6	11493.3	11287.4	9897.0
40°	11426.1	11799.9	11526.9	10821.1	10178.4	9892.8	9779.4	10514.5	12392.2	12173.8	10770.7
42.5°	12472.0	12782.9	12640.1	11942.7	11190.8	10947.2	10720.3	11455.5	13765.9	13665.1	11892.3
45°	13614.6	13761.7	13715.5	13274.4	12438.4	12354.4	11854.5	12694.7	15383.2	15425.2	13295.4
47.5°	14677.4	14757.3	14845.5	14526.2	14005.3	14076.7	13161.0	14022.1	16954.2	17231.5	14858.1
50°	14950.5	15223.5	15429.4	15643.6	15757.0	16240.1	14601.8	15652.0	18760.6	19298.3	16597.2
52.5°	14673.2	14652.2	15278.1	15950.3	17084.5	18096.9	16563.6	17676.8	20356.9	21419.7	18189.3
55°	13413.0	13371.0	14379.2	15269.7	17483.5	19130.2	19365.5	20373.7	22285.0	23667.1	20344.3
57.5°	11207.6	10947.2	12047.8	13509.6	16618.2	19243.7	22180.0	24377.0	25250.7	26826.0	23633.4
60°	7532.0	7422.7	8477.1	10220.4	13492.8	17634.8	23864.5	29388.5	29430.5	31203.2	28737.4
62.5°	4637.6	4658.6	5335.0	6641.4	9447.5	13980.1	23137.8	33391.8	33400.2	35177.1	32938.1
65°	3032.9	3045.5	3591.6	4314.2	5902.1	9481.1	19134.4	33706.9	36160.1	37811.0	34862.1
66°	2701.1	2705.3	3175.8	3763.9	4889.7	7758.8	16899.6	32887.7	36781.8	38159.7	34836.9
67.5°	2276.8	2331.4	2709.5	3163.2	3814.3	5574.4	13408.8	30518.5	36462.6	37672.4	34047.1
70°	1781.1	1810.5	2108.8	2570.9	2860.7	3226.2	7968.8	24876.9	33375.0	35336.8	31173.8
72.5°	1428.3	1453.5	1680.3	2087.8	2323.0	2125.6	4339.4	18050.6	26363.9	28455.9	24519.8
75°	1205.6	1209.8	1319.0	1642.5	1911.3	1596.3	2310.4	11585.7	16916.4	17891.0	15021.9
77.5°	974.6	991.4	1067.0	1251.8	1537.5	1256.0	1377.8	6490.2	8493.9	8565.3	6943.8
80°	793.9	802.3	848.6	911.6	1172.0	928.4	932.6	3167.4	3642.1	3558.0	2822.9
82.5°	625.9	634.3	688.9	676.3	861.2	663.7	579.7	1524.9	1676.1	1642.5	1298.0
85°	352.9	352.9	541.9	541.9	546.1	420.1	352.9	718.3	886.4	827.5	609.1
87.5°	113.4	117.6	163.8	172.2	273.0	189.0	172.2	268.8	420.1	369.7	218.4
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°	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5	4822.5
2.5°	4923.3	4856.1	4826.7	4730.1	4704.8	4641.8	4612.4	4574.6	4562.0	4507.4	4557.8
5°	4961.1	4940.1	4822.5	4700.6	4608.2	4566.2	4503.2	4419.2	4410.8	4335.2	4326.8
7.5°	5120.7	5049.3	4843.5	4713.2	4528.4	4423.4	4284.8	4242.8	4188.2	4162.9	4217.6
10°	5368.6	5187.9	4881.3	4553.6	4326.8	4200.8	4099.9	4070.5	4074.7	4057.9	4032.7
12.5°	5545.0	5372.8	4818.3	4419.2	4125.1	4003.3	3994.9	4024.3	4070.5	4049.5	4078.9
15°	5797.0	5473.6	4772.1	4196.6	3961.3	3927.7	3923.5	4011.7	4007.5	4007.5	4003.3
17.5°	6032.3	5574.4	4604.0	4003.3	3789.1	3814.3	3843.7	3839.5	3881.5	3898.3	3927.7
20°	6330.5	5692.0	4368.8	3810.1	3658.9	3650.5	3646.3	3650.5	3692.5	3717.7	3696.7
22.5°	6591.0	5717.2	4171.4	3625.3	3503.4	3469.8	3415.2	3469.8	3448.8	3457.2	3482.4
25°	6817.8	5721.4	3889.9	3486.6	3348.0	3272.4	3230.4	3226.2	3188.4	3184.2	3184.2
27.5°	7006.9	5578.6	3642.1	3293.4	3163.2	3091.8	3087.6	3041.3	2944.7	2881.7	2890.1
30°	7153.9	5469.4	3469.8	3125.4	2999.3	2986.7	2948.9	2843.9	2717.9	2638.1	2638.1
32.5°	7414.3	5250.9	3234.6	2953.1	2890.1	2873.3	2785.1	2692.7	2575.1	2499.4	2486.8
35°	7607.6	5049.3	3079.2	2806.1	2776.7	2743.1	2667.5	2566.7	2533.1	2516.3	2528.9
37.5°	7826.0	4822.5	2890.1	2680.1	2709.5	2646.5	2558.3	2512.1	2629.7	2600.3	2612.9
40°	8174.7	4662.8	2705.3	2604.5	2633.9	2562.5	2449.0	2432.2	2579.3	2474.2	2449.0
42.5°	8813.2	4658.6	2591.9	2491.0	2512.1	2457.4	2356.6	2348.2	2407.0	2281.0	2243.2
45°	9607.1	4805.7	2507.9	2407.0	2390.2	2381.8	2348.2	2310.4	2260.0	2096.2	2054.2
47.5°	10556.5	5045.1	2491.0	2281.0	2302.0	2373.4	2331.4	2234.8	2104.6	1999.6	1978.6
50°	11707.5	5540.8	2449.0	2188.6	2226.4	2339.8	2306.2	2171.8	2054.2	1987.0	1974.4
52.5°	12980.3	6166.7	2394.4	2045.8	2129.8	2310.4	2327.2	2201.2	2029.0	1970.2	1961.8
55°	14480.0	7090.9	2331.4	1890.3	2016.4	2281.0	2327.2	2117.2	1995.4	1995.4	1987.0
57.5°	17441.5	8754.4	2201.2	1747.5	1915.5	2226.4	2260.0	2121.4	1999.6	1999.6	1982.8
60°	21785.1	11350.4	1953.4	1638.3	1818.9	2150.8	2209.6	2058.4	1953.4	1978.6	1974.4
62.5°	25183.5	12140.2	1743.3	1533.3	1722.3	2012.2	2142.4	1991.2	1898.7	1991.2	1999.6
65°	25910.3	11342.0	1529.1	1419.9	1587.9	1877.7	2045.8	1894.5	1818.9	1999.6	2008.0
66°	25649.8	10720.3	1453.5	1386.2	1529.1	1810.5	1987.0	1860.9	1776.9	1991.2	1995.4
67.5°	24490.4	9787.8	1369.4	1314.8	1449.3	1713.9	1919.7	1814.7	1709.7	1966.0	1928.1
70°	21970.0	8300.7	1226.6	1188.8	1335.8	1554.3	1764.3	1697.1	1604.7	1810.5	1743.3
72.5°	16920.6	6633.0	1075.4	1079.6	1205.6	1390.5	1608.9	1562.7	1482.9	1587.9	1545.9
75°	10304.5	4238.6	936.8	945.2	1050.2	1235.0	1461.9	1428.3	1331.6	1390.5	1369.4
77.5°	4566.2	2100.4	789.7	806.5	890.6	1088.0	1272.8	1218.2	1117.4	1130.0	1121.6
80°	1772.7	995.6	642.7	663.7	718.3	869.6	1054.4	1004.0	915.8	899.0	890.6
82.5°	852.8	554.5	495.7	504.1	525.1	693.1	907.4	844.4	726.7	651.1	651.1
85°	428.5	344.5	348.7	319.3	348.7	470.5	613.3	512.5	424.3	378.1	386.5
87.5°	172.2	172.2	172.2	147.0	155.4	222.6	285.7	193.2	176.4	105.0	105.0
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)