

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: P476732

Luminaire Tested: **IFLD-S-SA6E-827-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476732
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-827-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

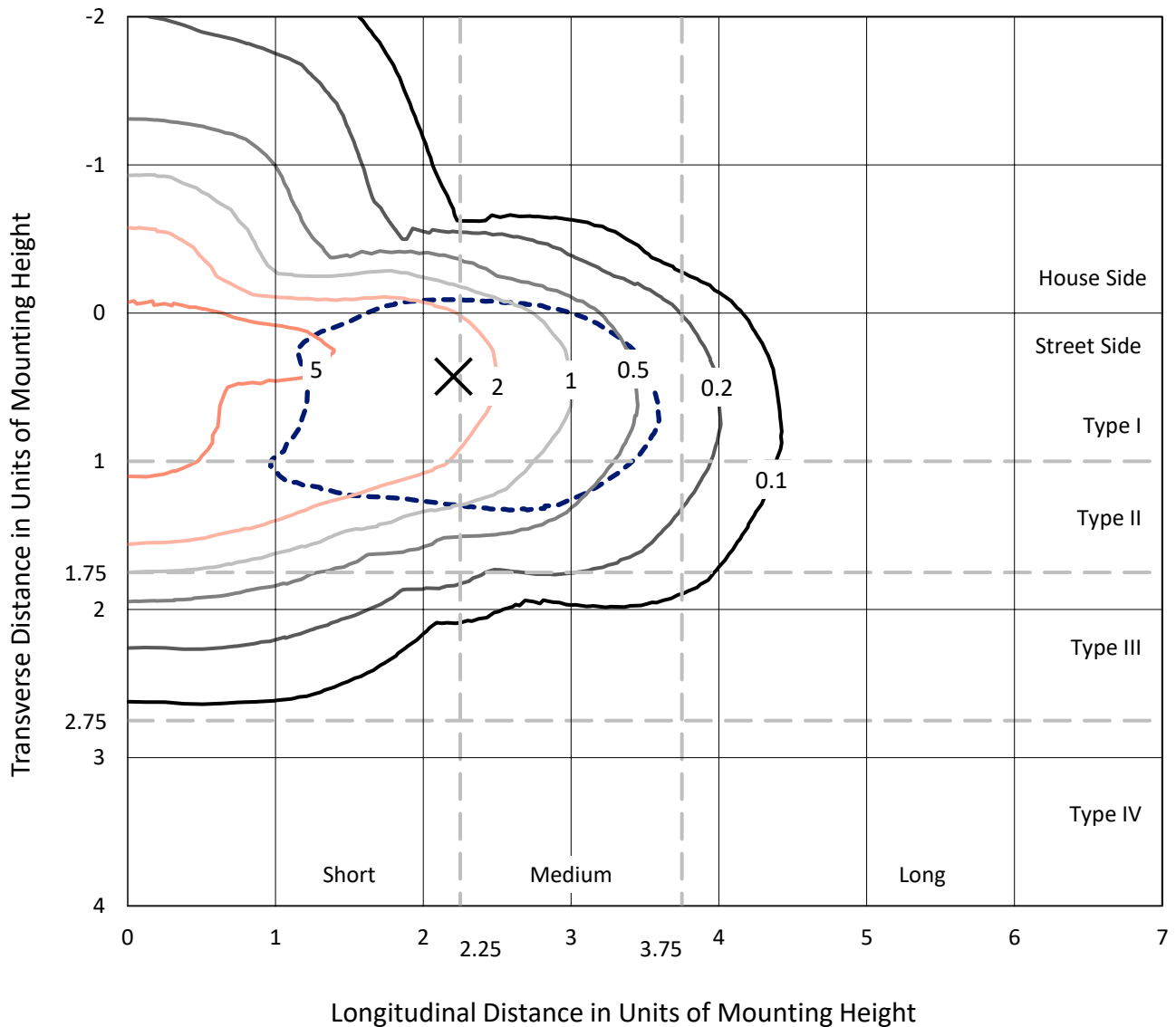
Lumens per Lamp: N/A
Luminaire Lumens: 38849.4 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 464.2
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

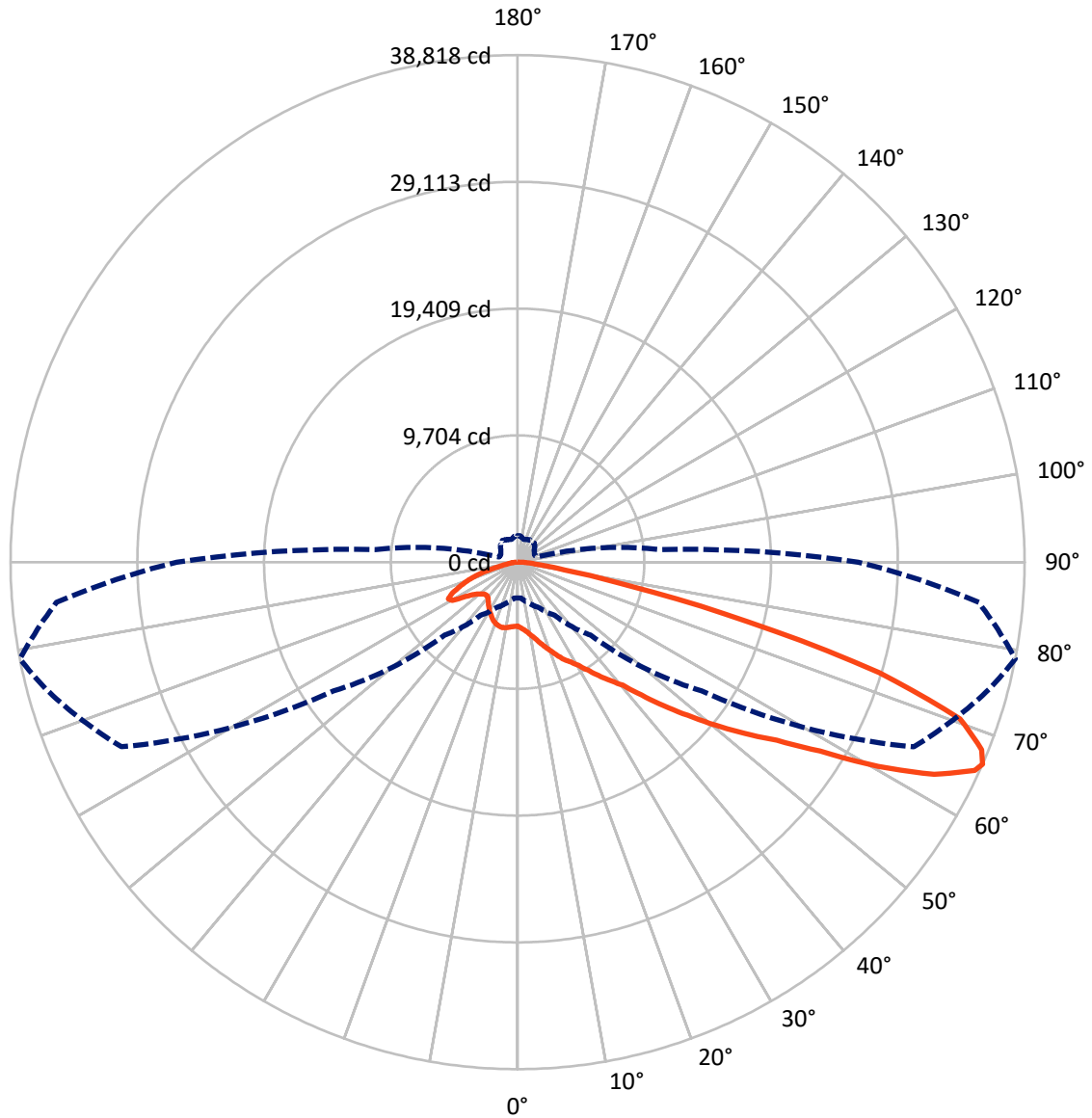
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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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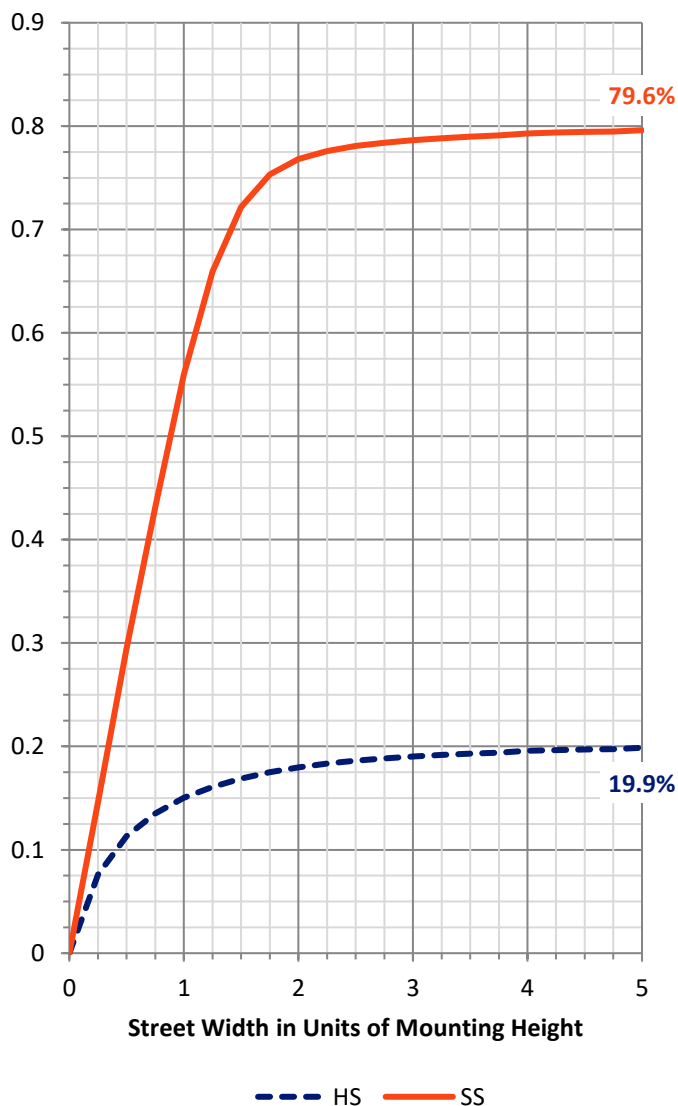
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7845.1	0.0	7845.1
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	31004.3	0.0	31004.3
	% Fixture	79.8	0.0	79.8
Total	Lumens	38849.4	0.0	38849.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.4	1.2
10°-20°	1489.5	3.8
20°-30°	2556.8	6.6
30°-40°	3949.8	10.2
40°-50°	6326.5	16.3
50°-60°	9445.9	24.3
60°-70°	9705.7	25.0
70°-80°	4302.4	11.1
80°-90°	590.3	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°	38849.4	100.0
0°-180°	38849.4	100.0

Coefficient of Utilization



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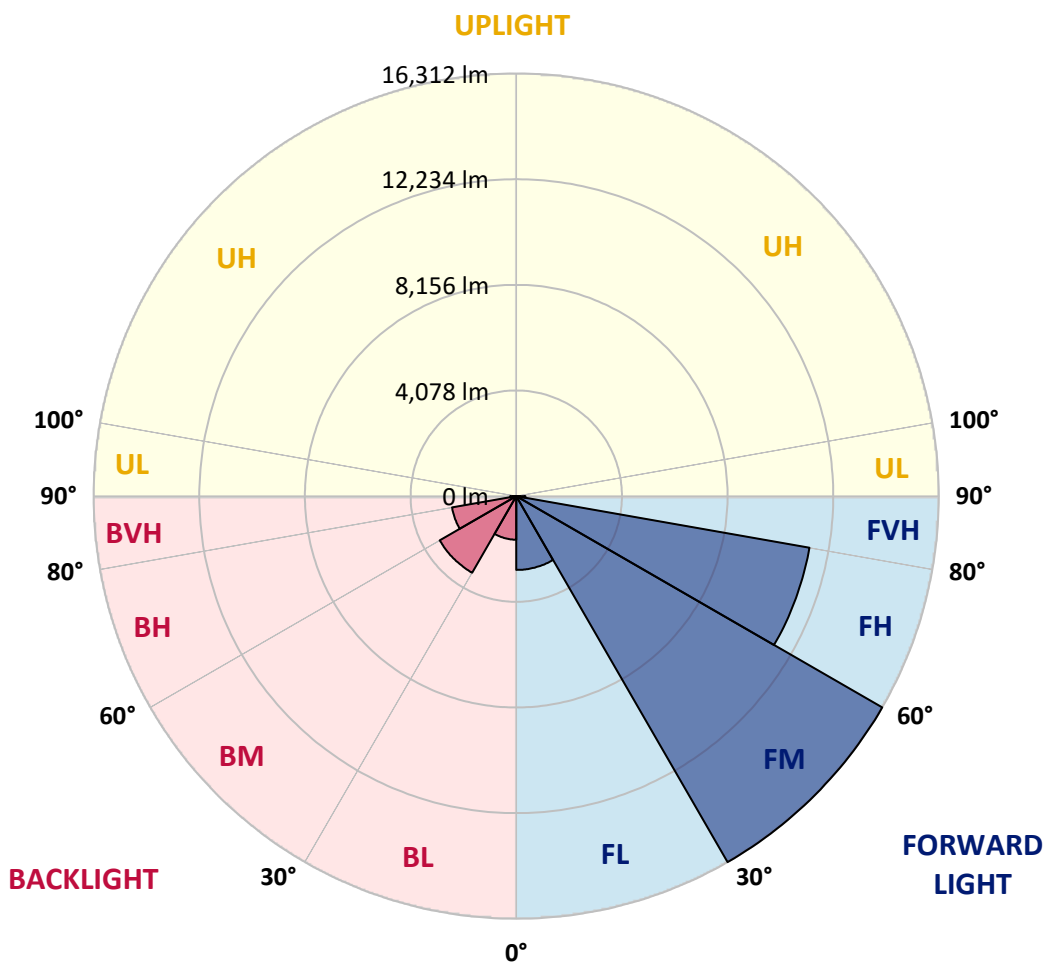
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2847.9	7.3			
FM (30°-60°)	16311.5	42.0			
FH (60°-80°)	11490.8	29.6			G4/12000
FVH (80°-90°)	354.1	0.9			G3/500
BL (0°-30°)	1680.8	4.3	B3/2500		
BM (30°-60°)	3410.7	8.8	B3/5000		
BH (60°-80°)	2517.3	6.5	B4/5000		G4/5000
BVH (80°-90°)	236.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4905.6	4905.6	4905.6	4905.6	4905.6	4905.6	4905.6	4905.6	4905.6	4905.6	4905.6
2.5°	5217.5	5221.8	5221.8	5204.7	5209.0	5221.8	5174.8	5072.3	5072.3	5055.2	5025.2
5°	5538.0	5516.7	5486.8	5491.0	5473.9	5473.9	5422.7	5324.4	5238.9	5204.7	5115.0
7.5°	5580.8	5602.1	5597.9	5649.1	5674.8	5674.8	5700.4	5619.2	5491.0	5409.8	5320.1
10°	5666.2	5610.7	5606.4	5726.0	5764.5	5854.2	5956.8	5914.1	5807.2	5691.9	5572.2
12.5°	5717.5	5751.7	5751.7	5811.5	5901.2	6033.7	6213.2	6294.4	6127.7	6008.1	5824.3
15°	5794.4	5747.4	5884.2	5935.4	6106.4	6200.4	6456.8	6666.1	6555.0	6409.8	6119.2
17.5°	5828.6	5798.7	5875.6	5969.6	6260.2	6401.2	6713.2	7003.7	6909.7	6815.7	6516.6
20°	6003.8	5999.5	6033.7	6110.6	6320.0	6597.8	6986.6	7388.3	7422.5	7251.6	6845.6
22.5°	6431.1	6375.6	6375.6	6345.7	6435.4	6721.7	7247.3	7802.8	7956.6	7755.8	7217.4
25°	6824.3	6901.2	6854.2	6717.4	6683.2	6832.8	7435.3	8242.9	8448.1	8260.0	7721.6
27.5°	7328.5	7354.1	7435.3	7251.6	7016.5	7063.6	7640.4	8490.8	8913.8	8661.7	8007.9
30°	8054.9	8007.9	7990.8	7785.7	7478.0	7414.0	7875.5	8854.0	9524.9	9170.2	8345.5
32.5°	8546.3	8661.7	8657.4	8375.4	8003.6	7862.6	8166.0	9195.9	10178.7	9849.7	8969.4
35°	9520.6	9640.3	9546.3	9131.8	8695.9	8413.9	8584.8	9640.3	10926.5	10670.1	9499.3
37.5°	10764.1	11046.1	10845.3	10080.4	9465.1	9157.4	9166.0	10123.1	11691.4	11482.0	10067.6
40°	11623.0	12003.3	11725.6	11007.7	10353.9	10063.3	9947.9	10695.7	12605.9	12383.6	10956.4
42.5°	12687.0	13003.3	12858.0	12148.6	11383.7	11135.9	10905.1	11652.9	14003.2	13900.6	12097.3
45°	13849.3	13998.9	13951.9	13503.2	12652.9	12567.4	12058.9	12913.5	15648.3	15691.1	13524.6
47.5°	14930.5	15011.6	15101.4	14776.6	14246.8	14319.4	13387.8	14263.8	17246.5	17528.5	15114.2
50°	15208.2	15486.0	15695.4	15913.3	16028.7	16520.1	14853.5	15921.8	19084.0	19630.9	16883.3
52.5°	14926.2	14904.8	15541.5	16225.2	17379.0	18408.8	16849.1	17981.5	20707.8	21788.9	18502.8
55°	13644.2	13601.5	14627.1	15533.0	17784.9	19460.0	19699.3	20724.9	22669.2	24075.0	20695.0
57.5°	11400.8	11135.9	12255.5	13742.5	16904.7	19575.4	22562.3	24797.2	25686.0	27288.5	24040.9
60°	7661.8	7550.7	8623.3	10396.6	13725.4	17938.8	24275.9	29895.1	29937.8	31741.1	29232.8
62.5°	4717.6	4738.9	5426.9	6755.9	9610.4	14221.1	23536.6	33967.4	33976.0	35783.5	33505.9
65°	3085.2	3098.0	3653.6	4388.5	6003.8	9644.5	19464.3	34287.9	36783.5	38462.8	35463.0
66°	2747.6	2751.9	3230.5	3828.8	4974.0	7892.5	17191.0	33454.7	37415.9	38817.5	35437.4
67.5°	2316.1	2371.6	2756.2	3217.7	3880.0	5670.5	13640.0	31044.6	37091.1	38321.8	34634.0
70°	1811.8	1841.7	2145.1	2615.2	2910.0	3281.8	8106.2	25305.7	33950.3	35945.9	31711.2
72.5°	1452.9	1478.5	1709.3	2123.8	2363.1	2162.2	4414.2	18361.8	26818.4	28946.5	24942.5
75°	1226.4	1230.7	1341.8	1670.8	1944.3	1623.8	2350.2	11785.4	17208.1	18199.4	15280.9
77.5°	991.4	1008.5	1085.4	1273.4	1564.0	1277.7	1401.6	6602.0	8640.4	8713.0	7063.6
80°	807.6	816.2	863.2	927.3	1192.2	944.4	948.6	3222.0	3704.8	3619.4	2871.6
82.5°	636.7	645.2	700.8	688.0	876.0	675.2	589.7	1551.2	1705.0	1670.8	1320.4
85°	358.9	358.9	551.2	551.2	555.5	427.3	358.9	730.7	901.6	841.8	619.6
87.5°	115.4	119.6	166.7	175.2	277.8	192.3	175.2	273.5	427.3	376.0	222.2
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°	4905.6	4905.6	4905.6	4905.6	4905.6	4905.6	4905.6	4905.6	4905.6	4905.6	4905.6
2.5°	5008.2	4939.8	4909.9	4811.6	4786.0	4721.9	4691.9	4653.5	4640.7	4585.1	4636.4
5°	5046.6	5025.2	4905.6	4781.7	4687.7	4644.9	4580.8	4495.4	4486.8	4409.9	4401.4
7.5°	5209.0	5136.4	4927.0	4794.5	4606.5	4499.6	4358.6	4315.9	4260.4	4234.7	4290.3
10°	5461.1	5277.4	4965.4	4632.1	4401.4	4273.2	4170.6	4140.7	4145.0	4127.9	4102.2
12.5°	5640.6	5465.4	4901.3	4495.4	4196.3	4072.3	4063.8	4093.7	4140.7	4119.3	4149.2
15°	5897.0	5567.9	4854.3	4268.9	4029.6	3995.4	3991.1	4080.9	4076.6	4076.6	4072.3
17.5°	6136.3	5670.5	4683.4	4072.3	3854.4	3880.0	3910.0	3905.7	3948.4	3965.5	3995.4
20°	6439.7	5790.1	4444.1	3875.8	3721.9	3713.4	3709.1	3713.4	3756.1	3781.8	3760.4
22.5°	6704.6	5815.8	4243.3	3687.7	3563.8	3529.6	3474.1	3529.6	3508.3	3516.8	3542.5
25°	6935.4	5820.1	3957.0	3546.7	3405.7	3328.8	3286.1	3281.8	3243.3	3239.1	3239.1
27.5°	7127.6	5674.8	3704.8	3350.2	3217.7	3145.1	3140.8	3093.8	2995.5	2931.4	2939.9
30°	7277.2	5563.7	3529.6	3179.2	3051.0	3038.2	2999.8	2892.9	2764.7	2683.6	2683.6
32.5°	7542.1	5341.5	3290.3	3004.0	2939.9	2922.8	2833.1	2739.1	2619.5	2542.5	2529.7
35°	7738.7	5136.4	3132.2	2854.5	2824.6	2790.4	2713.5	2610.9	2576.7	2559.6	2572.4
37.5°	7960.9	4905.6	2939.9	2726.3	2756.2	2692.1	2602.4	2555.4	2675.0	2645.1	2657.9
40°	8315.6	4743.2	2751.9	2649.4	2679.3	2606.6	2491.3	2474.2	2623.7	2516.9	2491.3
42.5°	8965.1	4738.9	2636.5	2534.0	2555.4	2499.8	2397.2	2388.7	2448.5	2320.3	2281.9
45°	9772.7	4888.5	2551.1	2448.5	2431.4	2422.9	2388.7	2350.2	2299.0	2132.3	2089.6
47.5°	10738.5	5132.1	2534.0	2320.3	2341.7	2414.3	2371.6	2273.3	2140.9	2034.0	2012.7
50°	11909.3	5636.3	2491.3	2226.3	2264.8	2380.2	2346.0	2209.2	2089.6	2021.2	2008.4
52.5°	13204.1	6273.0	2435.7	2081.0	2166.5	2350.2	2367.3	2239.1	2063.9	2004.1	1995.6
55°	14729.6	7213.1	2371.6	1922.9	2051.1	2320.3	2367.3	2153.7	2029.8	2029.8	2021.2
57.5°	17742.2	8905.3	2239.1	1777.6	1948.6	2264.8	2299.0	2158.0	2034.0	2034.0	2016.9
60°	22160.7	11546.1	1987.0	1666.5	1850.3	2187.9	2247.7	2093.9	1987.0	2012.7	2008.4
62.5°	25617.7	12349.5	1773.4	1559.7	1752.0	2046.8	2179.3	2025.5	1931.5	2025.5	2034.0
65°	26356.9	11537.6	1555.4	1444.3	1615.3	1910.1	2081.0	1927.2	1850.3	2034.0	2042.6
66°	26092.0	10905.1	1478.5	1410.1	1555.4	1841.7	2021.2	1893.0	1807.6	2025.5	2029.8
67.5°	24912.6	9956.5	1393.1	1337.5	1474.2	1743.5	1952.8	1846.0	1739.2	1999.8	1961.4
70°	22348.7	8443.8	1247.8	1209.3	1358.9	1581.1	1794.7	1726.4	1632.4	1841.7	1773.4
72.5°	17212.3	6747.3	1093.9	1098.2	1226.4	1414.4	1636.6	1589.6	1508.4	1615.3	1572.5
75°	10482.1	4311.6	952.9	961.5	1068.3	1256.3	1487.1	1452.9	1354.6	1414.4	1393.1
77.5°	4644.9	2136.6	803.4	820.4	905.9	1106.8	1294.8	1239.2	1136.7	1149.5	1140.9
80°	1803.3	1012.7	653.8	675.2	730.7	884.5	1072.6	1021.3	931.6	914.5	905.9
82.5°	867.5	564.1	504.2	512.8	534.1	705.1	923.0	858.9	739.3	662.3	662.3
85°	435.9	350.4	354.7	324.8	354.7	478.6	623.9	521.3	431.6	384.6	393.1
87.5°	175.2	175.2	175.2	149.6	158.1	226.5	290.6	196.6	179.5	106.8	106.8
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)