

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: P476510

Luminaire Tested: **IFLD-L-SA8B-727-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476510
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

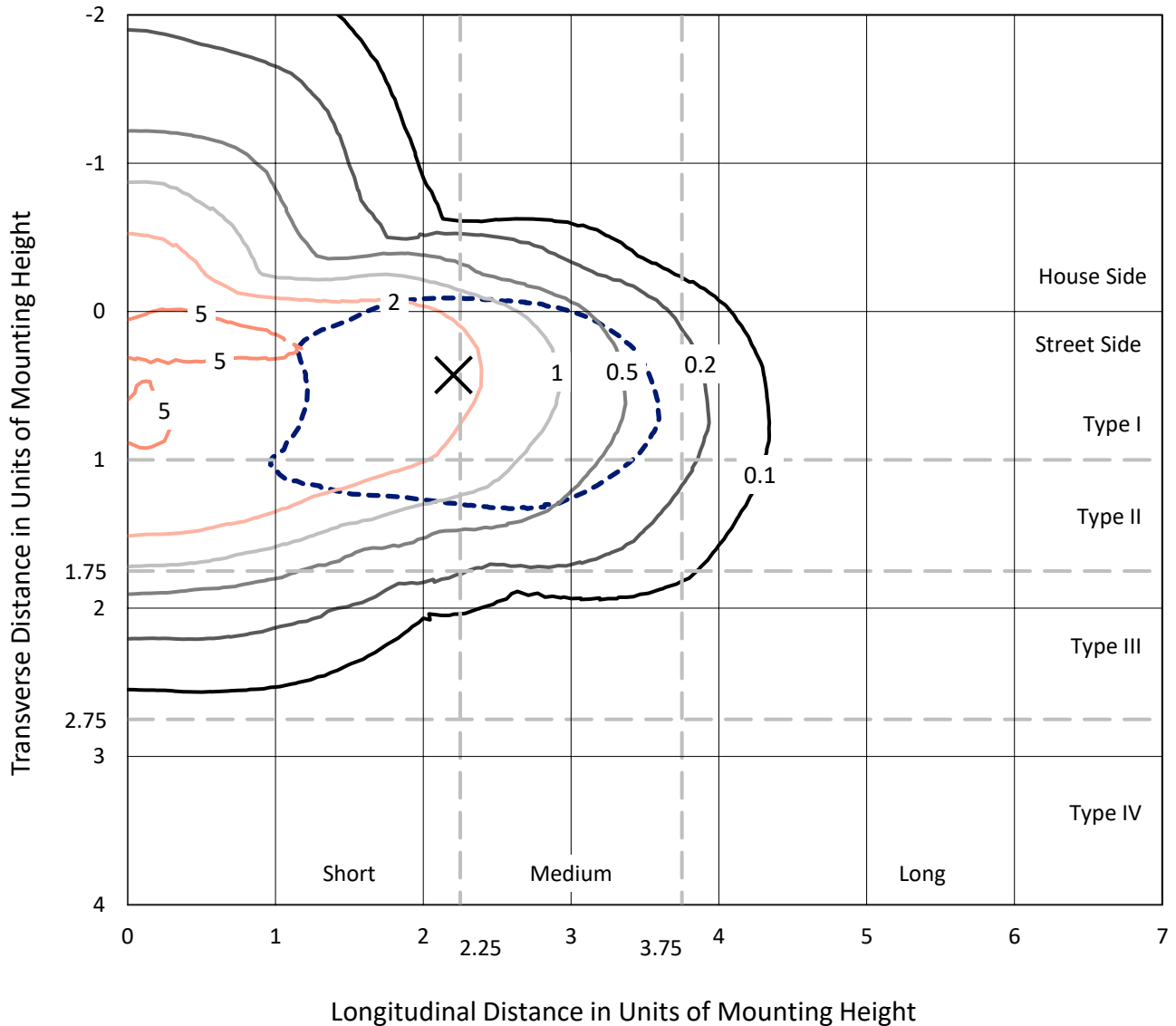
Lumens per Lamp: N/A
Luminaire Lumens: 33995.2 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

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

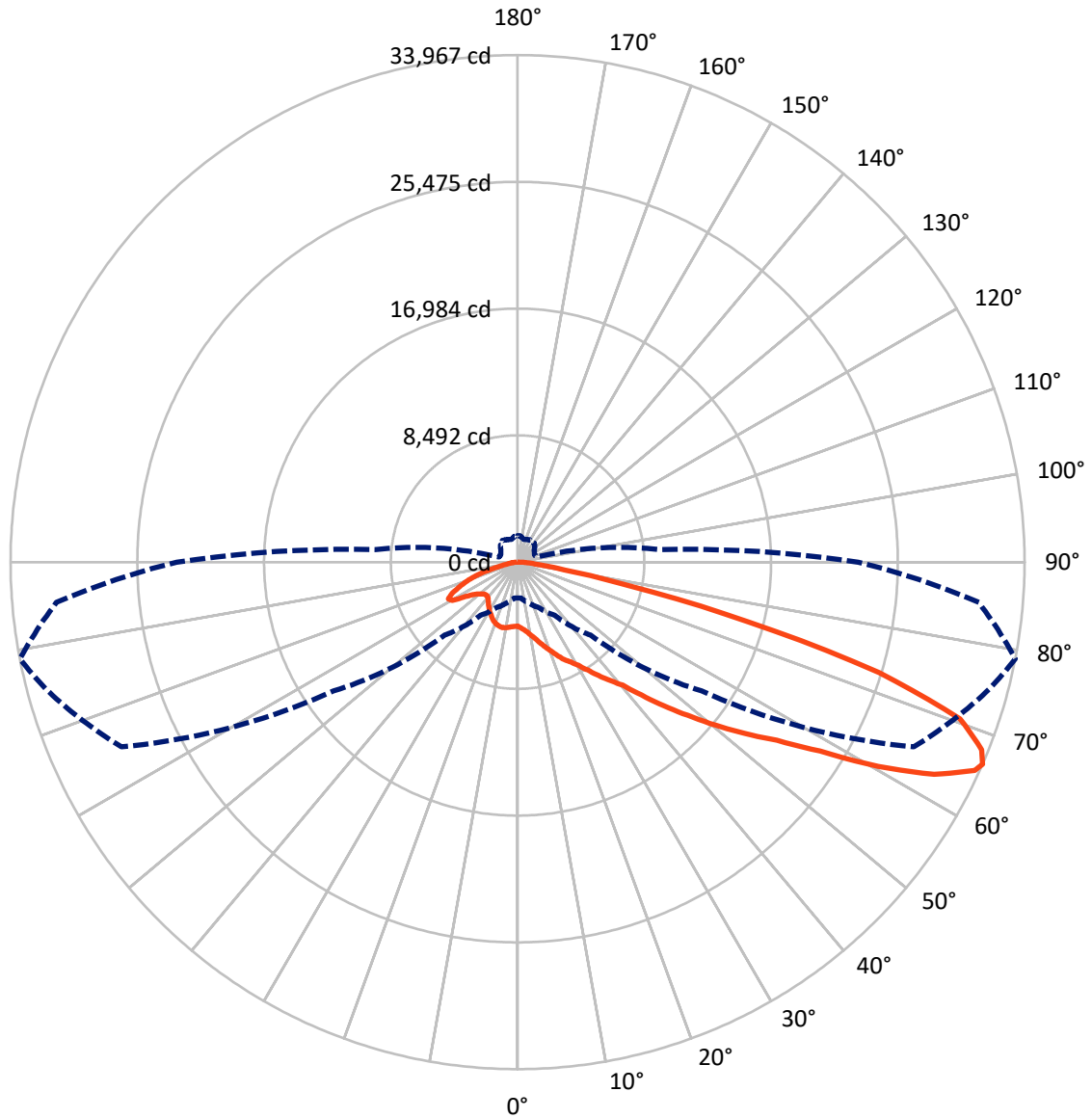
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 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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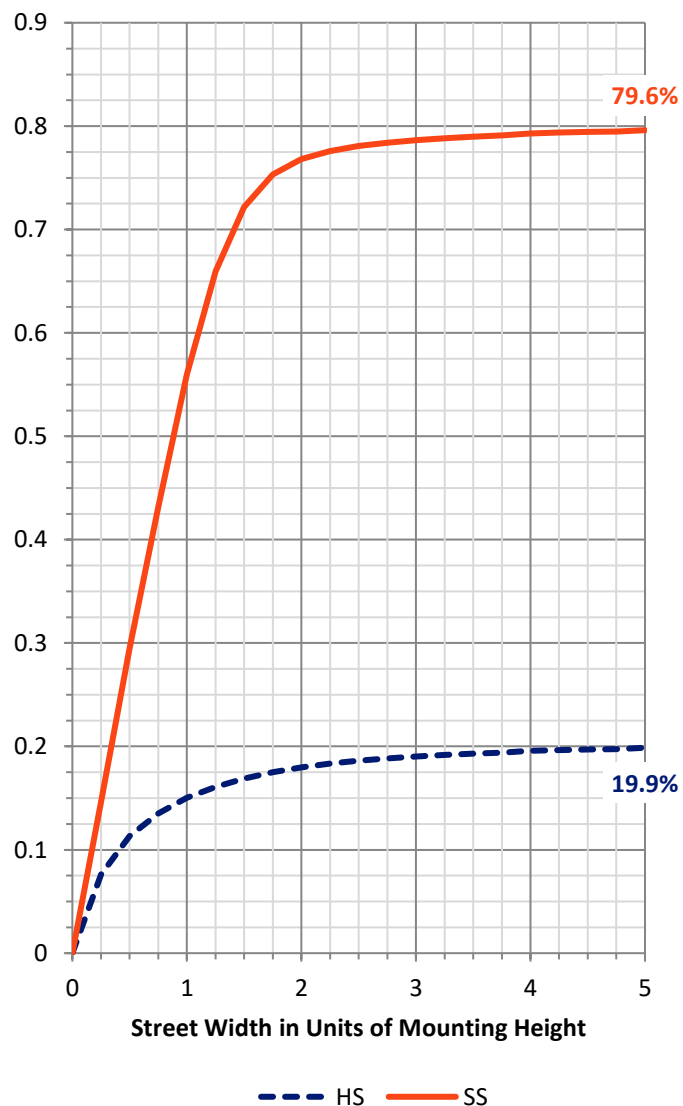
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6864.9	0.0	6864.9
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	27130.4	0.0	27130.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	33995.2	0.0	33995.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.1	1.2
10°-20°	1303.4	3.8
20°-30°	2237.3	6.6
30°-40°	3456.2	10.2
40°-50°	5536.0	16.3
50°-60°	8265.7	24.3
60°-70°	8493.0	25.0
70°-80°	3764.8	11.1
80°-90°	516.6	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°	33995.2	100.0
0°-180°	33995.2	100.0

Coefficient of Utilization

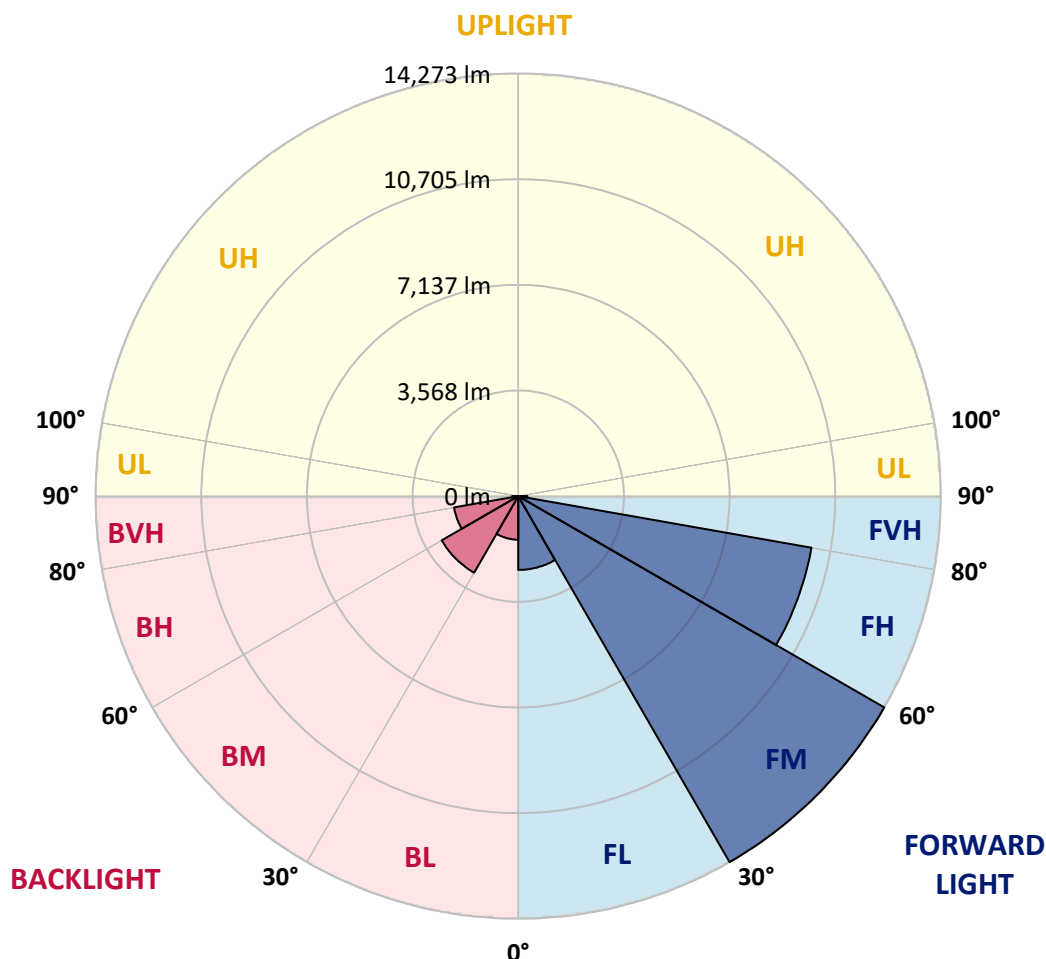


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2492.1	7.3			
FM (30°-60°)	14273.5	42.0			
FH (60°-80°)	10055.0	29.6			G4/12000
FVH (80°-90°)	309.8	0.9			G3/500
BL (0°-30°)	1470.8	4.3	B3/2500		
BM (30°-60°)	2984.5	8.8	B3/5000		
BH (60°-80°)	2202.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	206.8	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°	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7
2.5°	4565.6	4569.4	4569.4	4554.4	4558.1	4569.4	4528.2	4438.5	4438.5	4423.5	4397.4
5°	4846.1	4827.4	4801.2	4804.9	4790.0	4790.0	4745.1	4659.1	4584.3	4554.4	4475.9
7.5°	4883.5	4902.2	4898.4	4943.3	4965.7	4965.7	4988.2	4917.1	4804.9	4733.9	4655.4
10°	4958.2	4909.6	4905.9	5010.6	5044.2	5122.8	5212.5	5175.1	5081.6	4980.7	4876.0
12.5°	5003.1	5033.0	5033.0	5085.4	5163.9	5279.8	5436.9	5507.9	5362.1	5257.4	5096.6
15°	5070.4	5029.3	5148.9	5193.8	5343.4	5425.6	5650.0	5833.2	5736.0	5608.9	5354.6
17.5°	5100.3	5074.2	5141.5	5223.7	5478.0	5601.4	5874.4	6128.6	6046.4	5964.1	5702.4
20°	5253.6	5249.9	5279.8	5347.1	5530.3	5773.4	6113.7	6465.2	6495.1	6345.5	5990.3
22.5°	5627.6	5579.0	5579.0	5552.8	5631.3	5881.8	6341.8	6827.9	6962.5	6786.7	6315.6
25°	5971.6	6038.9	5997.8	5878.1	5848.2	5979.1	6506.3	7213.0	7392.5	7228.0	6756.8
27.5°	6412.8	6435.2	6506.3	6345.5	6139.8	6181.0	6685.8	7429.9	7800.1	7579.5	7007.3
30°	7048.5	7007.3	6992.4	6812.9	6543.7	6487.6	6891.4	7747.7	8334.8	8024.4	7302.7
32.5°	7478.5	7579.5	7575.7	7328.9	7003.6	6880.2	7145.7	8046.9	8906.9	8619.0	7848.7
35°	8331.0	8435.7	8353.5	7990.8	7609.4	7362.6	7512.1	8435.7	9561.3	9336.9	8312.3
37.5°	9419.2	9666.0	9490.2	8820.9	8282.4	8013.2	8020.7	8858.3	10230.6	10047.4	8809.7
40°	10170.7	10503.5	10260.5	9632.3	9060.2	8805.9	8705.0	9359.3	11030.8	10836.3	9587.4
42.5°	11101.8	11378.5	11251.4	10630.7	9961.4	9744.5	9542.6	10196.9	12253.5	12163.8	10585.8
45°	12118.9	12249.8	12208.6	11816.0	11071.9	10997.1	10552.2	11300.0	13693.1	13730.5	11834.7
47.5°	13064.9	13136.0	13214.5	12930.3	12466.6	12530.2	11715.1	12481.6	15091.6	15338.4	13225.7
50°	13308.0	13551.0	13734.3	13925.0	14025.9	14455.9	12997.6	13932.4	16699.5	17178.1	14773.8
52.5°	13061.2	13042.5	13599.6	14197.9	15207.5	16108.7	14743.8	15734.7	18120.4	19066.4	16190.9
55°	11939.4	11902.0	12799.4	13592.2	15562.7	17028.5	17237.9	18135.3	19836.7	21066.9	18109.2
57.5°	9976.3	9744.5	10724.2	12025.4	14792.5	17129.5	19743.2	21698.8	22476.6	23878.8	21037.0
60°	6704.5	6607.2	7545.8	9097.6	12010.5	15697.4	21242.7	26159.8	26197.2	27775.1	25580.2
62.5°	4128.1	4146.8	4748.8	5911.7	8409.6	12444.2	20595.8	29723.3	29730.7	31312.4	29319.4
65°	2699.7	2711.0	3197.1	3840.2	5253.6	8439.5	17032.3	30003.7	32187.4	33657.0	31032.0
66°	2404.3	2408.1	2826.9	3350.4	4352.5	6906.4	15043.0	29274.6	32740.8	33967.3	31009.6
67.5°	2026.7	2075.3	2411.8	2815.7	3395.2	4962.0	11935.7	27165.6	32456.7	33533.6	30306.6
70°	1585.4	1611.6	1877.1	2288.4	2546.4	2871.7	7093.4	22143.8	29708.3	31454.5	27748.9
72.5°	1271.3	1293.8	1495.7	1858.4	2067.8	1892.1	3862.6	16067.5	23467.5	25329.7	21826.0
75°	1073.2	1076.9	1174.1	1462.0	1701.4	1420.9	2056.6	10312.8	15057.9	15925.4	13371.5
77.5°	867.5	882.5	949.8	1114.3	1368.6	1118.0	1226.5	5777.1	7560.8	7624.3	6181.0
80°	706.7	714.2	755.3	811.4	1043.2	826.4	830.1	2819.4	3241.9	3167.1	2512.8
82.5°	557.1	564.6	613.2	602.0	766.5	590.8	516.0	1357.3	1492.0	1462.0	1155.4
85°	314.1	314.1	482.4	482.4	486.1	373.9	314.1	639.4	789.0	736.6	542.2
87.5°	101.0	104.7	145.8	153.3	243.1	168.3	153.3	239.3	373.9	329.1	194.4
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°	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7	4292.7
2.5°	4382.4	4322.6	4296.4	4210.4	4188.0	4131.9	4105.7	4072.0	4060.8	4012.2	4057.1
5°	4416.0	4397.4	4292.7	4184.2	4102.0	4064.6	4008.5	3933.7	3926.2	3858.9	3851.4
7.5°	4558.1	4494.6	4311.4	4195.4	4030.9	3937.4	3814.0	3776.6	3728.0	3705.6	3754.2
10°	4778.8	4618.0	4345.0	4053.3	3851.4	3739.2	3649.5	3623.3	3627.1	3612.1	3589.7
12.5°	4935.8	4782.5	4288.9	3933.7	3671.9	3563.5	3556.0	3582.2	3623.3	3604.6	3630.8
15°	5160.2	4872.2	4247.8	3735.5	3526.1	3496.2	3492.5	3571.0	3567.2	3567.2	3563.5
17.5°	5369.6	4962.0	4098.2	3563.5	3372.8	3395.2	3421.4	3417.7	3455.1	3470.0	3496.2
20°	5635.0	5066.7	3888.8	3391.5	3256.9	3249.4	3245.7	3249.4	3286.8	3309.2	3290.5
22.5°	5866.9	5089.1	3713.1	3227.0	3118.5	3088.6	3040.0	3088.6	3069.9	3077.4	3099.8
25°	6068.8	5092.9	3462.5	3103.6	2980.2	2912.9	2875.5	2871.7	2838.1	2834.3	2834.3
27.5°	6237.1	4965.7	3241.9	2931.6	2815.7	2752.1	2748.3	2707.2	2621.2	2565.1	2572.6
30°	6367.9	4868.5	3088.6	2782.0	2669.8	2658.6	2625.0	2531.5	2419.3	2348.2	2348.2
32.5°	6599.8	4674.1	2879.2	2628.7	2572.6	2557.6	2479.1	2396.9	2292.2	2224.9	2213.6
35°	6771.8	4494.6	2740.9	2497.8	2471.6	2441.7	2374.4	2284.7	2254.8	2239.8	2251.0
37.5°	6966.2	4292.7	2572.6	2385.6	2411.8	2355.7	2277.2	2236.1	2340.8	2314.6	2325.8
40°	7276.6	4150.6	2408.1	2318.3	2344.5	2280.9	2180.0	2165.0	2295.9	2202.4	2180.0
42.5°	7844.9	4146.8	2307.1	2217.4	2236.1	2187.5	2097.7	2090.2	2142.6	2030.4	1996.8
45°	8551.7	4277.7	2232.3	2142.6	2127.6	2120.2	2090.2	2056.6	2011.7	1865.9	1828.5
47.5°	9396.7	4490.8	2217.4	2030.4	2049.1	2112.7	2075.3	1989.3	1873.4	1779.9	1761.2
50°	10421.3	4932.1	2180.0	1948.1	1981.8	2082.8	2052.8	1933.2	1828.5	1768.7	1757.4
52.5°	11554.3	5489.2	2131.4	1821.0	1895.8	2056.6	2071.5	1959.4	1806.1	1753.7	1746.2
55°	12889.2	6311.8	2075.3	1682.7	1794.8	2030.4	2071.5	1884.6	1776.1	1776.1	1768.7
57.5°	15525.4	7792.6	1959.4	1555.5	1705.1	1981.8	2011.7	1888.3	1779.9	1779.9	1764.9
60°	19391.7	10103.4	1738.7	1458.3	1619.1	1914.5	1966.8	1832.2	1738.7	1761.2	1757.4
62.5°	22416.8	10806.4	1551.8	1364.8	1533.1	1791.1	1907.0	1772.4	1690.1	1772.4	1779.9
65°	23063.7	10096.0	1361.1	1263.9	1413.4	1671.4	1821.0	1686.4	1619.1	1779.9	1787.4
66°	22831.8	9542.6	1293.8	1234.0	1361.1	1611.6	1768.7	1656.5	1581.7	1772.4	1776.1
67.5°	21799.8	8712.4	1219.0	1170.4	1290.0	1525.6	1708.8	1615.4	1521.9	1750.0	1716.3
70°	19556.3	7388.8	1091.9	1058.2	1189.1	1383.5	1570.5	1510.7	1428.4	1611.6	1551.8
72.5°	15061.7	5904.3	957.2	961.0	1073.2	1237.7	1432.1	1391.0	1320.0	1413.4	1376.0
75°	9172.4	3772.9	833.9	841.3	934.8	1099.3	1301.3	1271.3	1185.3	1237.7	1219.0
77.5°	4064.6	1869.6	703.0	717.9	792.7	968.5	1133.0	1084.4	994.6	1005.9	998.4
80°	1578.0	886.2	572.1	590.8	639.4	774.0	938.6	893.7	815.2	800.2	792.7
82.5°	759.1	493.6	441.2	448.7	467.4	617.0	807.7	751.6	646.9	579.6	579.6
85°	381.4	306.6	310.4	284.2	310.4	418.8	545.9	456.2	377.7	336.5	344.0
87.5°	153.3	153.3	153.3	130.9	138.4	198.2	254.3	172.0	157.0	93.5	93.5
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)