

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: P476572

Luminaire Tested: **IFLD-S-SA6A-735-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476572
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-735-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

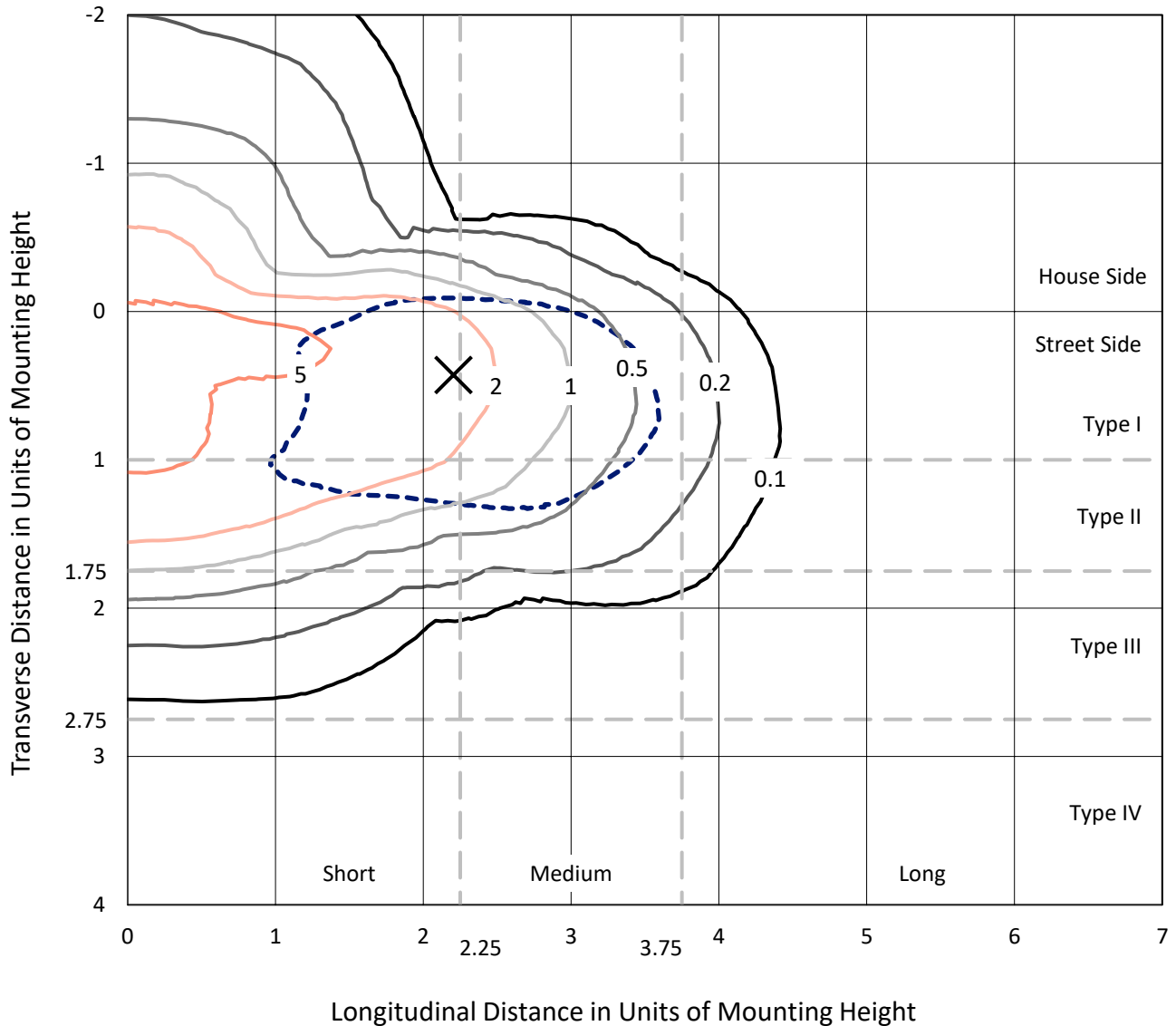
Lumens per Lamp: N/A
Luminaire Lumens: 26588.1 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
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

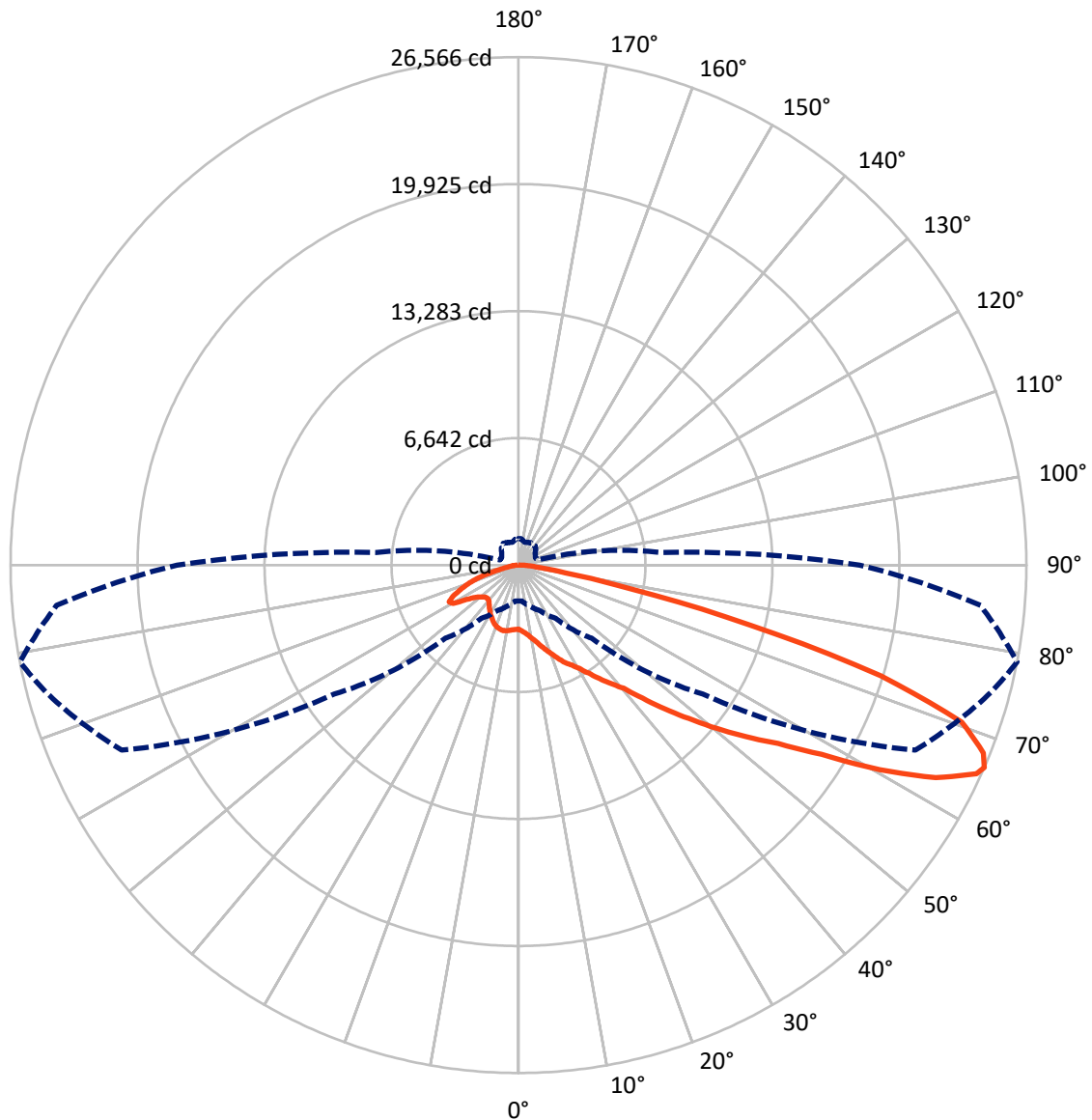
× Max cd
 - - - 1/2 Max cd



Based on 25 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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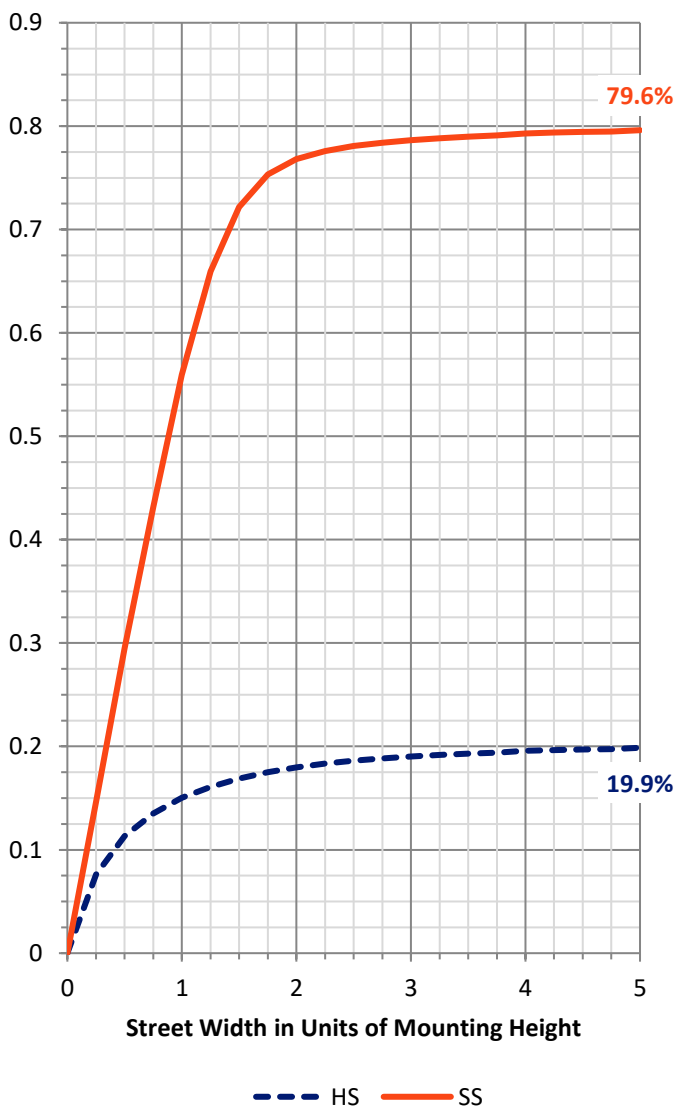
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5369.1	0.0	5369.1
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	21219.0	0.0	21219.0
	% Fixture	79.8	0.0	79.8
Total	Lumens	26588.1	0.0	26588.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.1	1.2
10°-20°	1019.4	3.8
20°-30°	1749.9	6.6
30°-40°	2703.2	10.2
40°-50°	4329.8	16.3
50°-60°	6464.7	24.3
60°-70°	6642.5	25.0
70°-80°	2944.5	11.1
80°-90°	404.0	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°	26588.1	100.0
0°-180°	26588.1	100.0

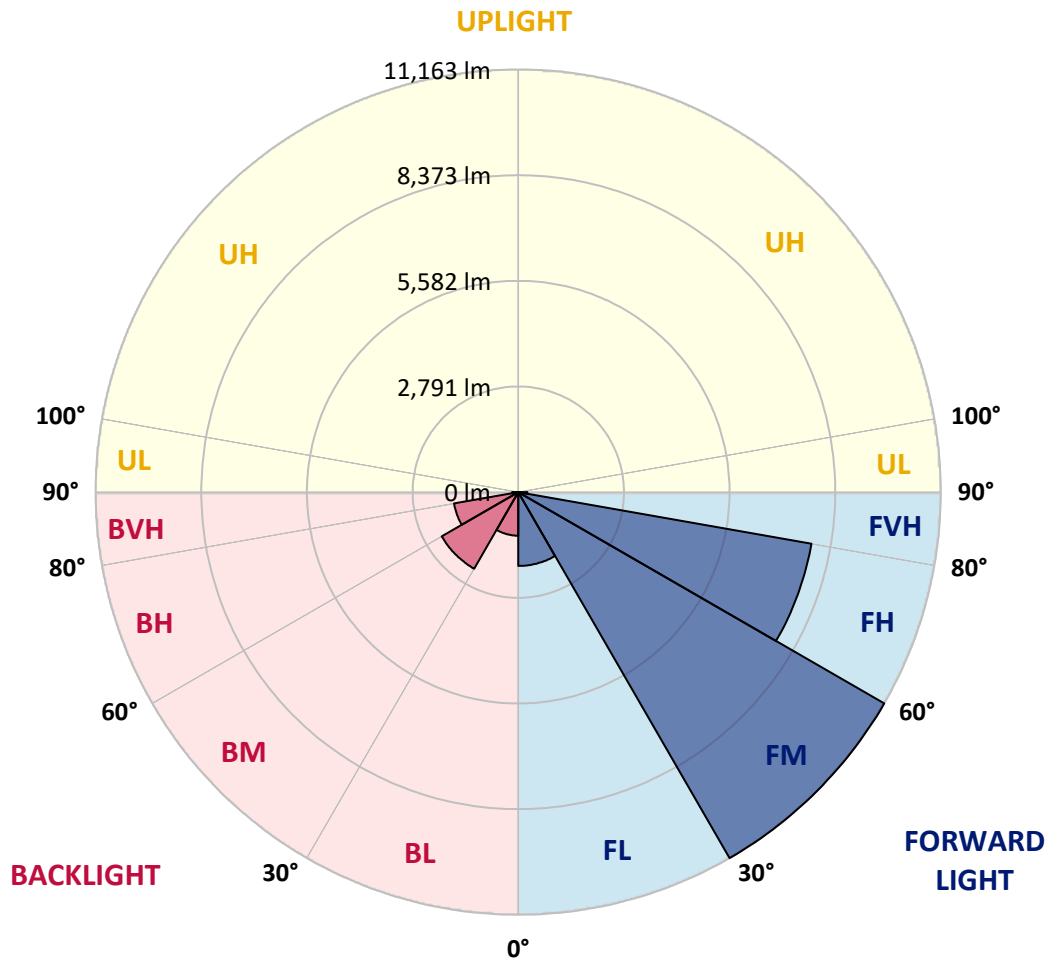


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1949.1	7.3			
FM (30°-60°)	11163.4	42.0			
FH (60°-80°)	7864.2	29.6			G4/12000
FVH (80°-90°)	242.3	0.9			G3/500
BL (0°-30°)	1150.3	4.3	B3/2500		
BM (30°-60°)	2334.2	8.8	B2/2500		
BH (60°-80°)	1722.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	161.7	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°	3357.3	3357.3	3357.3	3357.3	3357.3	3357.3	3357.3	3357.3	3357.3	3357.3	3357.3
2.5°	3570.8	3573.7	3573.7	3562.0	3565.0	3573.7	3541.6	3471.4	3471.4	3459.7	3439.2
5°	3790.2	3775.5	3755.1	3758.0	3746.3	3746.3	3711.2	3643.9	3585.4	3562.0	3500.6
7.5°	3819.4	3834.0	3831.1	3866.2	3883.7	3883.7	3901.3	3845.7	3758.0	3702.4	3641.0
10°	3877.9	3839.9	3837.0	3918.8	3945.2	4006.6	4076.8	4047.5	3974.4	3895.4	3813.6
12.5°	3913.0	3936.4	3936.4	3977.3	4038.7	4129.4	4252.2	4307.8	4193.7	4111.9	3986.1
15°	3965.6	3933.5	4027.0	4062.1	4179.1	4243.5	4418.9	4562.2	4486.2	4386.8	4187.9
17.5°	3989.0	3968.6	4021.2	4085.5	4284.4	4380.9	4594.4	4793.3	4728.9	4664.6	4459.9
20°	4108.9	4106.0	4129.4	4182.0	4325.3	4515.4	4781.6	5056.5	5079.9	4962.9	4685.1
22.5°	4401.4	4363.4	4363.4	4342.9	4404.3	4600.2	4960.0	5340.1	5445.4	5308.0	4939.5
25°	4670.4	4723.1	4690.9	4597.3	4573.9	4676.3	5088.6	5641.4	5781.7	5653.1	5284.6
27.5°	5015.5	5033.1	5088.6	4962.9	4802.0	4834.2	5229.0	5811.0	6100.5	5928.0	5480.5
30°	5512.7	5480.5	5468.8	5328.5	5117.9	5074.0	5389.9	6059.6	6518.7	6276.0	5711.6
32.5°	5849.0	5928.0	5925.1	5732.0	5477.6	5381.1	5588.7	6293.5	6966.2	6741.0	6138.5
35°	6515.8	6597.7	6533.3	6249.7	5951.4	5758.4	5875.3	6597.7	7478.0	7302.5	6501.2
37.5°	7366.8	7559.8	7422.4	6898.9	6477.8	6267.2	6273.1	6928.2	8001.4	7858.1	6890.1
40°	7954.7	8214.9	8024.8	7533.5	7086.1	6887.2	6808.3	7320.0	8627.3	8475.2	7498.4
42.5°	8682.9	8899.3	8799.8	8314.4	7790.9	7621.3	7463.3	7975.1	9583.6	9513.4	8279.3
45°	9478.3	9580.7	9548.5	9241.4	8659.5	8601.0	8253.0	8837.9	10709.5	10738.8	9256.1
47.5°	10218.2	10273.8	10335.2	10112.9	9750.3	9800.0	9162.5	9762.0	11803.3	11996.3	10344.0
50°	10408.3	10598.4	10741.7	10890.9	10969.8	11306.1	10165.6	10896.7	13060.8	13435.2	11554.7
52.5°	10215.3	10200.7	10636.4	11104.4	11894.0	12598.8	11531.3	12306.3	14172.2	14912.1	12663.1
55°	9337.9	9308.7	10010.6	10630.6	12171.8	13318.2	13482.0	14183.9	15514.5	16476.7	14163.4
57.5°	7802.6	7621.3	8387.5	9405.2	11569.3	13397.2	15441.4	16970.9	17579.2	18675.9	16453.3
60°	5243.6	5167.6	5901.7	7115.3	9393.5	12277.1	16614.1	20459.8	20489.1	21723.2	20006.5
62.5°	3228.7	3243.3	3714.1	4623.6	6577.2	9732.8	16108.2	23246.9	23252.8	24489.8	22931.1
65°	2111.5	2120.3	2500.5	3003.5	4108.9	6600.6	13321.1	23466.2	25174.2	26323.5	24270.5
66°	1880.5	1883.4	2210.9	2620.4	3404.1	5401.6	11765.3	22896.0	25607.0	26566.2	24252.9
67.5°	1585.1	1623.1	1886.3	2202.2	2655.5	3880.8	9335.0	21246.5	25384.7	26227.0	23703.1
70°	1240.0	1260.5	1468.1	1789.8	1991.6	2246.0	5547.8	17318.9	23235.2	24600.9	21702.8
72.5°	994.3	1011.9	1169.8	1453.5	1617.3	1479.8	3021.0	12566.6	18354.2	19810.6	17070.3
75°	839.3	842.3	918.3	1143.5	1330.7	1111.3	1608.5	8065.8	11777.0	12455.5	10458.0
77.5°	678.5	690.2	742.8	871.5	1070.4	874.4	959.2	4518.4	5913.4	5963.1	4834.2
80°	552.7	558.6	590.8	634.6	815.9	646.3	649.2	2205.1	2535.5	2477.1	1965.3
82.5°	435.8	441.6	479.6	470.8	599.5	462.1	403.6	1061.6	1166.9	1143.5	903.7
85°	245.7	245.7	377.3	377.3	380.2	292.5	245.7	500.1	617.1	576.1	424.1
87.5°	79.0	81.9	114.1	119.9	190.1	131.6	119.9	187.2	292.5	257.4	152.1
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°	3357.3	3357.3	3357.3	3357.3	3357.3	3357.3	3357.3	3357.3	3357.3	3357.3	3357.3
2.5°	3427.5	3380.7	3360.3	3293.0	3275.4	3231.6	3211.1	3184.8	3176.0	3138.0	3173.1
5°	3453.8	3439.2	3357.3	3272.5	3208.2	3178.9	3135.1	3076.6	3070.7	3018.1	3012.2
7.5°	3565.0	3515.3	3372.0	3281.3	3152.6	3079.5	2983.0	2953.8	2915.7	2898.2	2936.2
10°	3737.5	3611.8	3398.3	3170.2	3012.2	2924.5	2854.3	2833.8	2836.8	2825.1	2807.5
12.5°	3860.3	3740.4	3354.4	3076.6	2871.9	2787.1	2781.2	2801.7	2833.8	2819.2	2839.7
15°	4035.8	3810.6	3322.2	2921.6	2757.8	2734.4	2731.5	2792.9	2790.0	2790.0	2787.1
17.5°	4199.6	3880.8	3205.3	2787.1	2637.9	2655.5	2675.9	2673.0	2702.2	2713.9	2734.4
20°	4407.2	3962.7	3041.5	2652.5	2547.2	2541.4	2538.5	2541.4	2570.6	2588.2	2573.6
22.5°	4588.6	3980.3	2904.0	2523.8	2439.0	2415.6	2377.6	2415.6	2401.0	2406.9	2424.4
25°	4746.5	3983.2	2708.1	2427.3	2330.8	2278.2	2248.9	2246.0	2219.7	2216.8	2216.8
27.5°	4878.1	3883.7	2535.5	2292.8	2202.2	2152.4	2149.5	2117.3	2050.1	2006.2	2012.1
30°	4980.4	3807.7	2415.6	2175.8	2088.1	2079.3	2053.0	1979.9	1892.2	1836.6	1836.6
32.5°	5161.8	3655.6	2251.9	2055.9	2012.1	2000.4	1938.9	1874.6	1792.7	1740.1	1731.3
35°	5296.3	3515.3	2143.7	1953.6	1933.1	1909.7	1857.1	1786.9	1763.5	1751.8	1760.6
37.5°	5448.4	3357.3	2012.1	1865.8	1886.3	1842.4	1781.0	1748.9	1830.7	1810.3	1819.0
40°	5691.1	3246.2	1883.4	1813.2	1833.7	1783.9	1705.0	1693.3	1795.6	1722.5	1705.0
42.5°	6135.6	3243.3	1804.4	1734.2	1748.9	1710.8	1640.6	1634.8	1675.7	1588.0	1561.7
45°	6688.3	3345.6	1745.9	1675.7	1664.0	1658.2	1634.8	1608.5	1573.4	1459.3	1430.1
47.5°	7349.3	3512.3	1734.2	1588.0	1602.6	1652.3	1623.1	1555.8	1465.2	1392.1	1377.4
50°	8150.6	3857.4	1705.0	1523.7	1550.0	1629.0	1605.6	1512.0	1430.1	1383.3	1374.5
52.5°	9036.7	4293.2	1667.0	1424.2	1482.7	1608.5	1620.2	1532.4	1412.5	1371.6	1365.7
55°	10080.8	4936.6	1623.1	1316.0	1403.8	1588.0	1620.2	1474.0	1389.1	1389.1	1383.3
57.5°	12142.6	6094.7	1532.4	1216.6	1333.6	1550.0	1573.4	1476.9	1392.1	1392.1	1380.4
60°	15166.5	7902.0	1359.9	1140.6	1266.3	1497.3	1538.3	1433.0	1359.9	1377.4	1374.5
62.5°	17532.4	8451.8	1213.7	1067.4	1199.0	1400.8	1491.5	1386.2	1321.9	1386.2	1392.1
65°	18038.4	7896.2	1064.5	988.5	1105.5	1307.3	1424.2	1319.0	1266.3	1392.1	1397.9
66°	17857.0	7463.3	1011.9	965.1	1064.5	1260.5	1383.3	1295.6	1237.1	1386.2	1389.1
67.5°	17049.9	6814.1	953.4	915.4	1009.0	1193.2	1336.5	1263.4	1190.3	1368.7	1342.3
70°	15295.2	5778.8	854.0	827.6	930.0	1082.1	1228.3	1181.5	1117.2	1260.5	1213.7
72.5°	11779.9	4617.8	748.7	751.6	839.3	968.0	1120.1	1087.9	1032.4	1105.5	1076.2
75°	7173.8	2950.8	652.2	658.0	731.1	859.8	1017.7	994.3	927.1	968.0	953.4
77.5°	3178.9	1462.3	549.8	561.5	620.0	757.4	886.1	848.1	777.9	786.7	780.8
80°	1234.1	693.1	447.4	462.1	500.1	605.4	734.1	699.0	637.5	625.8	620.0
82.5°	593.7	386.0	345.1	350.9	365.6	482.5	631.7	587.8	505.9	453.3	453.3
85°	298.3	239.8	242.7	222.3	242.7	327.5	427.0	356.8	295.4	263.2	269.1
87.5°	119.9	119.9	119.9	102.4	108.2	155.0	198.9	134.5	122.8	73.1	73.1
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)