

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: P476771

Luminaire Tested: **IFLD-S-SA6E-830-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476771
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

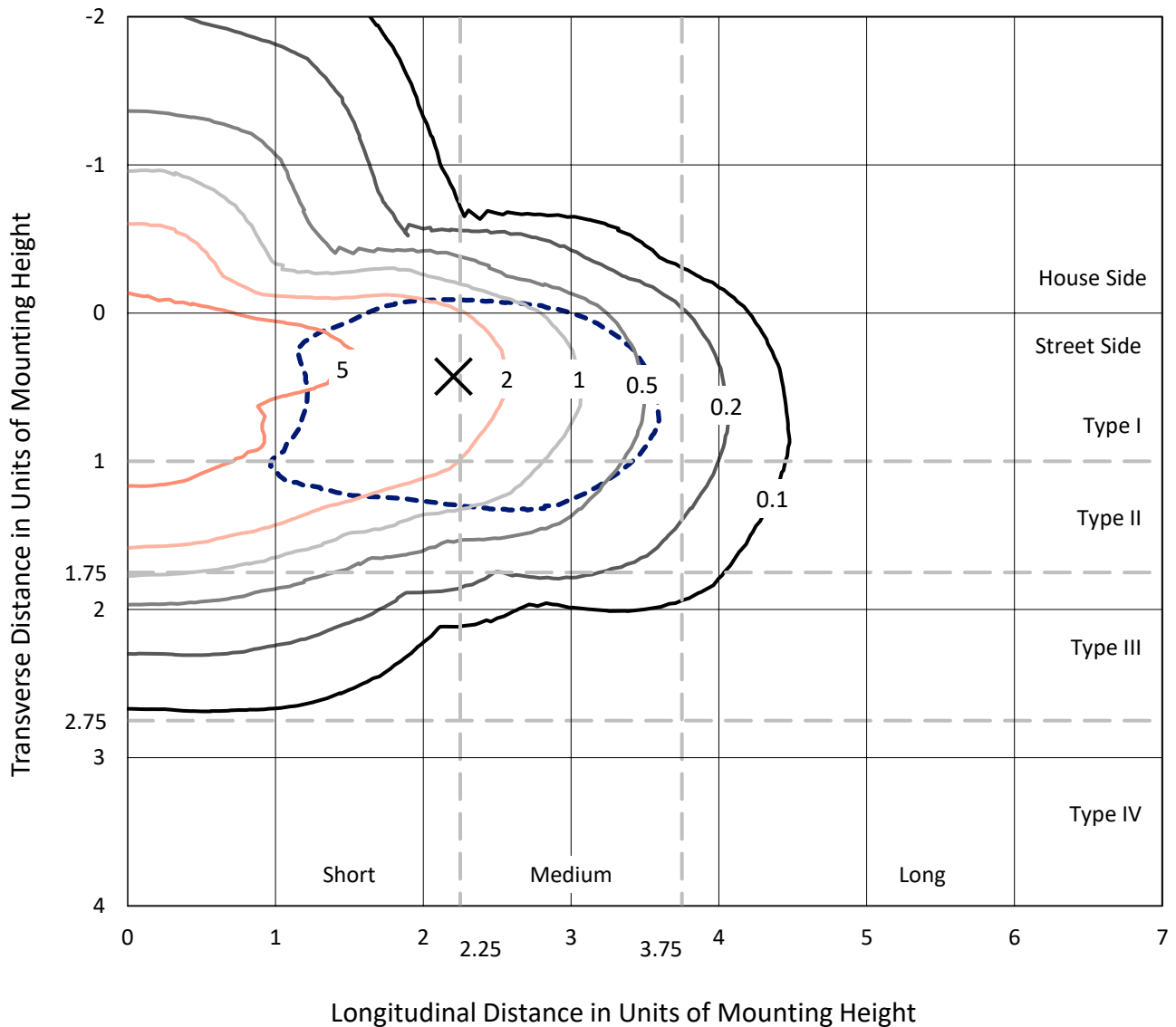
Lumens per Lamp: N/A
Luminaire Lumens: 41993.9 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

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

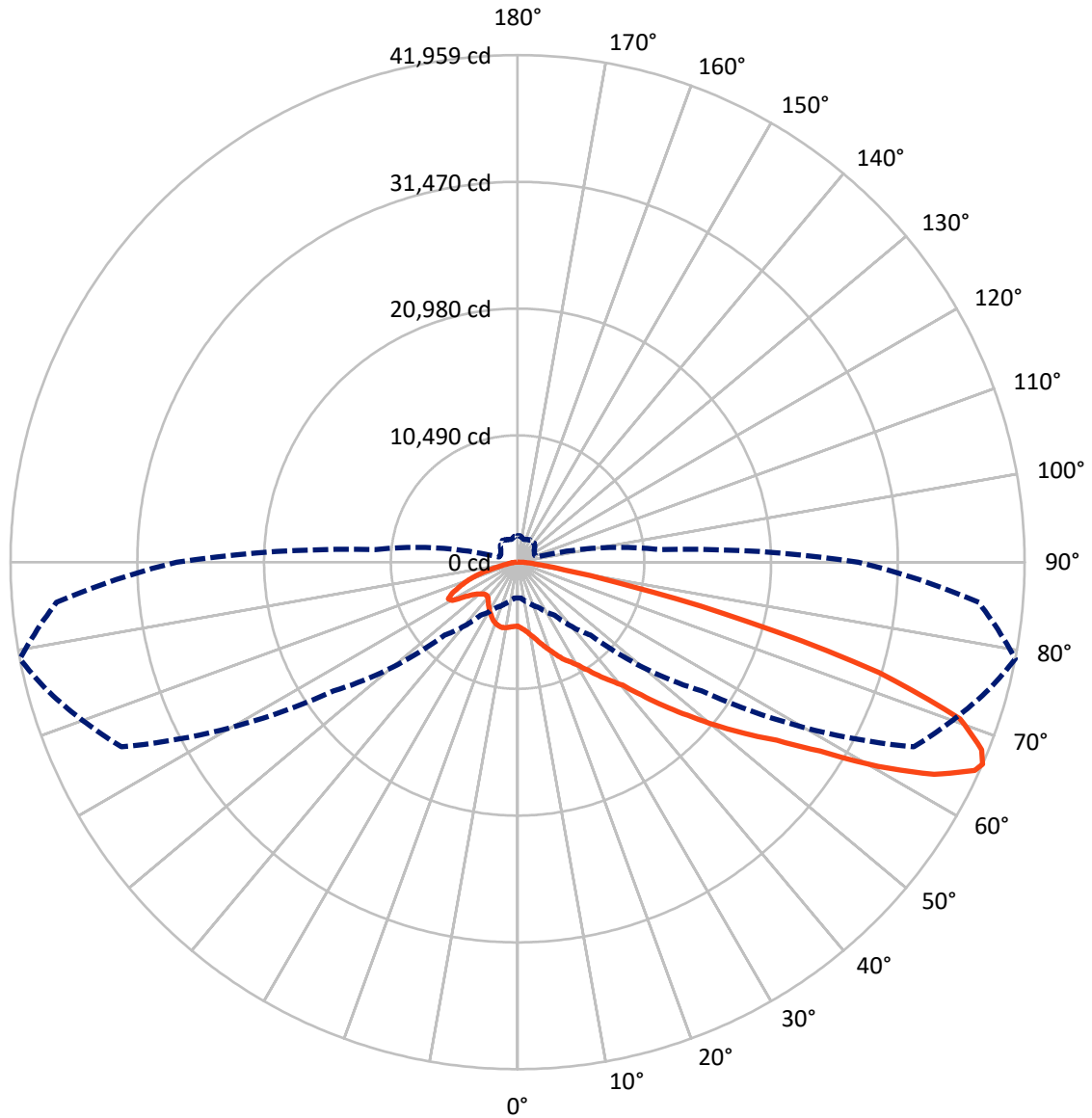
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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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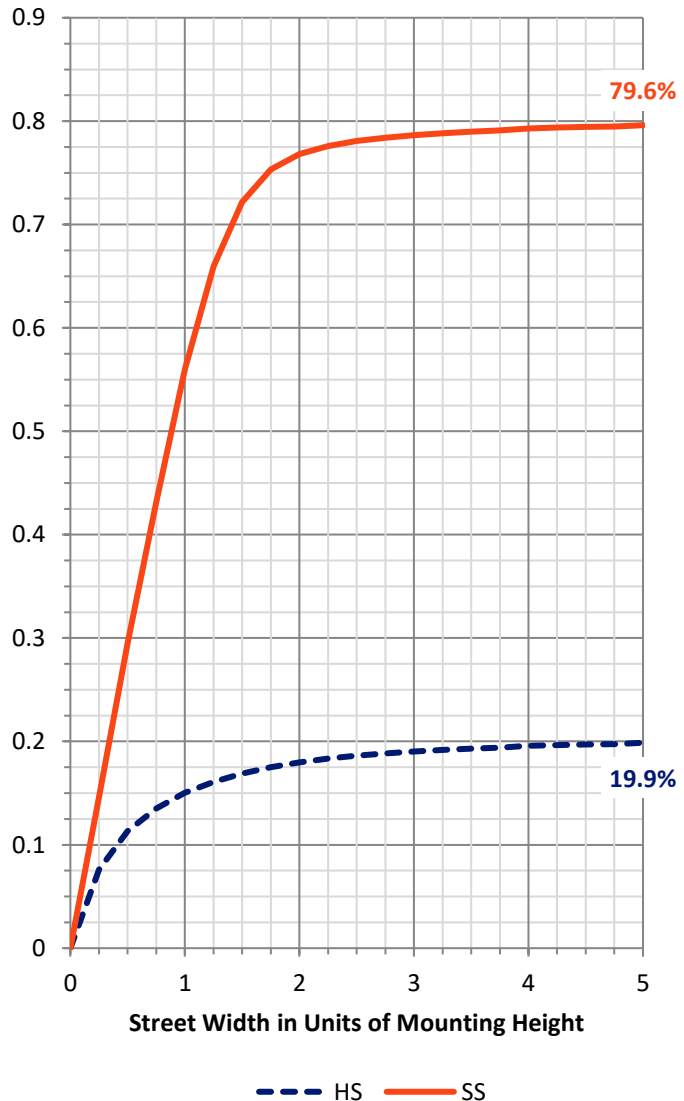
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8480.1	0.0	8480.1
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	33513.8	0.0	33513.8
	% Fixture	79.8	0.0	79.8
Total	Lumens	41993.9	0.0	41993.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.4	1.2
10°-20°	1610.1	3.8
20°-30°	2763.8	6.6
30°-40°	4269.5	10.2
40°-50°	6838.6	16.3
50°-60°	10210.5	24.3
60°-70°	10491.3	25.0
70°-80°	4650.6	11.1
80°-90°	638.1	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°	41993.9	100.0
0°-180°	41993.9	100.0

Coefficient of Utilization

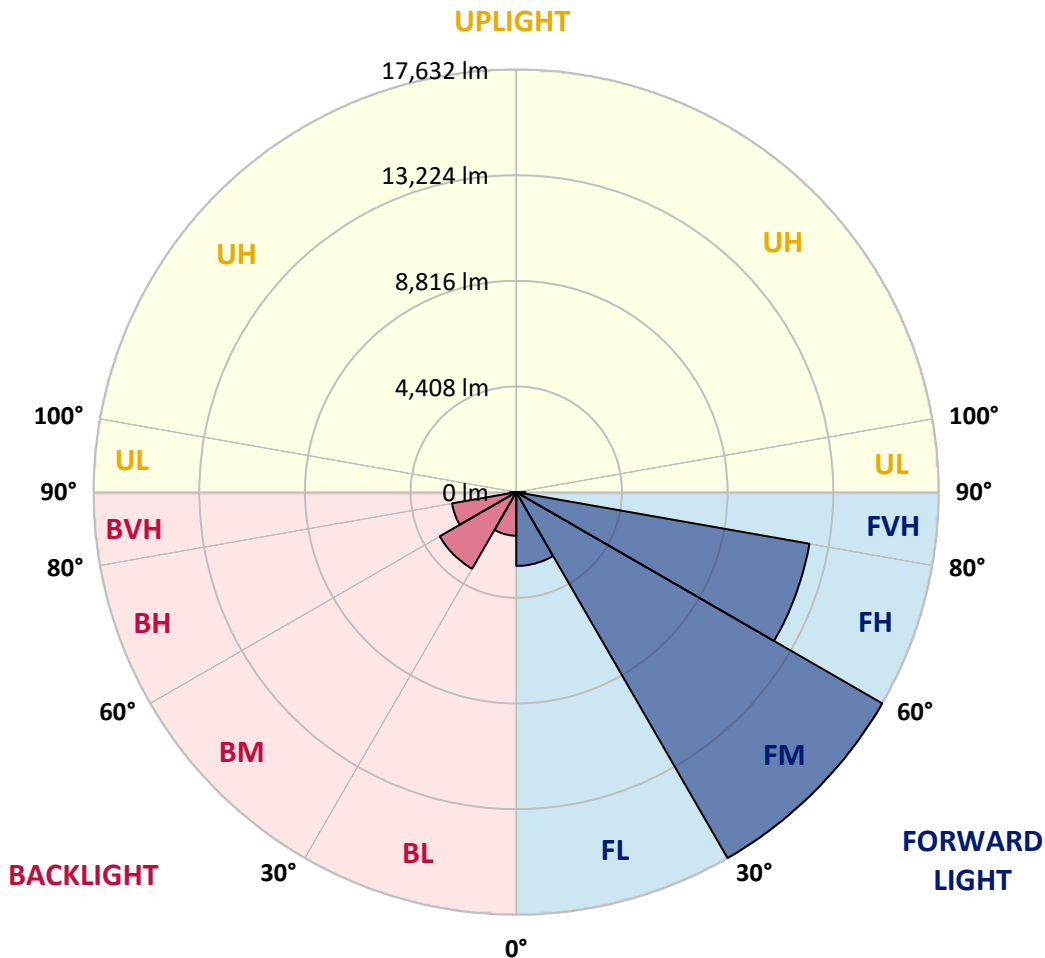


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3078.4	7.3			
FM (30°-60°)	17631.8	42.0			
FH (60°-80°)	12420.9	29.6			G5
FVH (80°-90°)	382.7	0.9			G3/500
BL (0°-30°)	1816.8	4.3	B3/2500		
BM (30°-60°)	3686.8	8.8	B3/5000		
BH (60°-80°)	2721.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	255.4	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-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7
2.5°	5639.9	5644.5	5644.5	5626.0	5630.6	5644.5	5593.7	5482.8	5482.8	5464.3	5432.0
5°	5986.3	5963.2	5930.9	5935.5	5917.0	5917.0	5861.6	5755.3	5663.0	5626.0	5529.0
7.5°	6032.5	6055.6	6051.0	6106.4	6134.1	6134.1	6161.8	6074.0	5935.5	5847.7	5750.7
10°	6124.9	6064.8	6060.2	6189.5	6231.1	6328.1	6439.0	6392.8	6277.3	6152.6	6023.2
12.5°	6180.3	6217.2	6217.2	6281.9	6378.9	6522.1	6716.1	6803.9	6623.7	6494.4	6295.8
15°	6263.4	6212.6	6360.4	6415.9	6600.6	6702.2	6979.4	7205.7	7085.6	6928.6	6614.5
17.5°	6300.4	6268.0	6351.2	6452.8	6766.9	6919.3	7256.5	7570.6	7469.0	7367.4	7044.0
20°	6489.8	6485.1	6522.1	6605.2	6831.6	7131.8	7552.1	7986.3	8023.3	7838.5	7399.7
22.5°	6951.7	6891.6	6891.6	6859.3	6956.3	7265.8	7833.9	8434.4	8600.7	8383.6	7801.6
25°	7376.6	7459.8	7409.0	7261.1	7224.2	7385.9	8037.1	8910.1	9131.9	8928.6	8346.6
27.5°	7921.7	7949.4	8037.1	7838.5	7584.5	7635.3	8258.9	9178.0	9635.3	9362.8	8656.1
30°	8706.9	8656.1	8637.6	8415.9	8083.3	8014.0	8512.9	9570.7	10295.9	9912.5	9021.0
32.5°	9238.1	9362.8	9358.2	9053.3	8651.5	8499.0	8827.0	9940.2	11002.6	10646.9	9695.4
35°	10291.2	10420.6	10319.0	9870.9	9399.8	9094.9	9279.7	10420.6	11810.9	11533.8	10268.1
37.5°	11635.4	11940.2	11723.1	10896.3	10231.2	9898.6	9907.9	10942.5	12637.7	12411.4	10882.5
40°	12563.8	12974.9	12674.7	11898.7	11191.9	10877.9	10753.1	11561.5	13626.2	13386.0	11843.2
42.5°	13713.9	14055.8	13898.7	13131.9	12305.1	12037.2	11787.8	12596.1	15136.6	15025.8	13076.5
45°	14970.3	15132.0	15081.2	14596.2	13677.0	13584.6	13034.9	13958.8	16914.9	16961.1	14619.3
47.5°	16138.9	16226.7	16323.7	15972.7	15399.9	15478.4	14471.5	15418.4	18642.5	18947.3	16337.6
50°	16439.2	16739.4	16965.8	17201.3	17326.0	17857.2	16055.8	17210.6	20628.7	21219.9	18249.9
52.5°	16134.3	16111.2	16799.5	17538.5	18785.7	19898.9	18212.9	19436.9	22383.9	23552.5	20000.5
55°	14748.6	14702.4	15811.0	16790.2	19224.5	21035.1	21293.8	22402.4	24504.0	26023.7	22370.0
57.5°	12323.6	12037.2	13247.4	14854.9	18272.9	21159.9	24388.6	26804.3	27765.1	29497.2	25986.8
60°	8282.0	8161.9	9321.2	11238.1	14836.4	19390.8	26240.8	32314.9	32361.0	34310.3	31598.9
62.5°	5099.4	5122.5	5866.2	7302.7	10388.2	15372.2	25441.7	36716.8	36726.0	38679.9	36217.9
65°	3335.0	3348.8	3949.3	4743.8	6489.8	10425.2	21039.8	37063.2	39760.8	41576.0	38333.5
66°	2970.0	2974.7	3492.0	4138.7	5376.6	8531.4	18582.4	36162.5	40444.4	41959.4	38305.8
67.5°	2503.5	2563.6	2979.3	3478.1	4194.1	6129.5	14744.0	33557.4	40093.3	41423.6	37437.4
70°	1958.5	1990.8	2318.8	2826.9	3145.6	3547.4	8762.3	27354.0	36698.3	38855.4	34277.9
72.5°	1570.5	1598.2	1847.6	2295.7	2554.3	2337.2	4771.5	19848.0	28989.1	31289.4	26961.4
75°	1325.7	1330.3	1450.4	1806.0	2101.7	1755.2	2540.5	12739.3	18600.9	19672.5	16517.7
77.5°	1071.6	1090.1	1173.2	1376.5	1690.6	1381.1	1515.0	7136.4	9339.7	9418.2	7635.3
80°	873.0	882.2	933.0	1002.3	1288.7	1020.8	1025.4	3482.8	4004.7	3912.3	3104.0
82.5°	688.2	697.5	757.5	743.7	946.9	729.8	637.4	1676.7	1843.0	1806.0	1427.3
85°	388.0	388.0	595.9	595.9	600.5	461.9	388.0	789.9	974.6	910.0	669.8
87.5°	124.7	129.3	180.1	189.4	300.2	207.9	189.4	295.6	461.9	406.5	240.2
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°	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7	5302.7
2.5°	5413.5	5339.6	5307.3	5201.0	5173.3	5104.0	5071.7	5030.1	5016.3	4956.2	5011.7
5°	5455.1	5432.0	5302.7	5168.7	5067.1	5020.9	4951.6	4859.2	4850.0	4766.9	4757.6
7.5°	5630.6	5552.1	5325.8	5182.6	4979.3	4863.9	4711.4	4665.2	4605.2	4577.5	4637.5
10°	5903.1	5704.5	5367.3	5007.0	4757.6	4619.0	4508.2	4475.9	4480.5	4462.0	4434.3
12.5°	6097.1	5907.8	5298.0	4859.2	4535.9	4402.0	4392.7	4425.0	4475.9	4452.8	4485.1
15°	6374.3	6018.6	5247.2	4614.4	4355.8	4318.8	4314.2	4411.2	4406.6	4406.6	4402.0
17.5°	6633.0	6129.5	5062.5	4402.0	4166.4	4194.1	4226.4	4221.8	4268.0	4286.5	4318.8
20°	6960.9	6258.8	4803.8	4189.5	4023.2	4014.0	4009.3	4014.0	4060.1	4087.9	4064.8
22.5°	7247.3	6286.5	4586.7	3986.2	3852.3	3815.3	3755.3	3815.3	3792.2	3801.5	3829.2
25°	7496.7	6291.1	4277.2	3833.8	3681.4	3598.2	3552.0	3547.4	3505.9	3501.2	3501.2
27.5°	7704.6	6134.1	4004.7	3621.3	3478.1	3399.6	3395.0	3344.2	3238.0	3168.7	3177.9
30°	7866.2	6014.0	3815.3	3436.6	3298.0	3284.1	3242.6	3127.1	2988.5	2900.8	2900.8
32.5°	8152.6	5773.8	3556.7	3247.2	3177.9	3159.4	3062.4	2960.8	2831.5	2748.3	2734.5
35°	8365.1	5552.1	3385.8	3085.5	3053.2	3016.2	2933.1	2822.2	2785.3	2766.8	2780.7
37.5°	8605.3	5302.7	3177.9	2947.0	2979.3	2910.0	2813.0	2762.2	2891.5	2859.2	2873.0
40°	8988.7	5127.1	2974.7	2863.8	2896.1	2817.6	2692.9	2674.4	2836.1	2720.6	2692.9
42.5°	9690.8	5122.5	2850.0	2739.1	2762.2	2702.1	2591.3	2582.0	2646.7	2508.1	2466.6
45°	10563.8	5284.2	2757.6	2646.7	2628.2	2619.0	2582.0	2540.5	2485.0	2304.9	2258.7
47.5°	11607.7	5547.5	2739.1	2508.1	2531.2	2609.8	2563.6	2457.3	2314.1	2198.7	2175.6
50°	12873.3	6092.5	2692.9	2406.5	2448.1	2572.8	2535.9	2388.0	2258.7	2184.8	2171.0
52.5°	14272.9	6780.8	2632.9	2249.5	2341.9	2540.5	2559.0	2420.4	2231.0	2166.3	2157.1
55°	15921.9	7797.0	2563.6	2078.6	2217.1	2508.1	2559.0	2328.0	2194.0	2194.0	2184.8
57.5°	19178.3	9626.1	2420.4	1921.5	2106.3	2448.1	2485.0	2332.6	2198.7	2198.7	2180.2
60°	23954.4	12480.7	2147.9	1801.4	2000.0	2365.0	2429.6	2263.3	2147.9	2175.6	2171.0
62.5°	27691.2	13349.0	1916.9	1686.0	1893.8	2212.5	2355.7	2189.4	2087.8	2189.4	2198.7
65°	28490.3	12471.4	1681.3	1561.2	1746.0	2064.7	2249.5	2083.2	2000.0	2198.7	2207.9
66°	28203.9	11787.8	1598.2	1524.3	1681.3	1990.8	2184.8	2046.2	1953.9	2189.4	2194.0
67.5°	26929.0	10762.4	1505.8	1445.8	1593.6	1884.6	2110.9	1995.4	1880.0	2161.7	2120.1
70°	24157.6	9127.2	1348.8	1307.2	1468.9	1709.0	1940.0	1866.1	1764.5	1990.8	1916.9
72.5°	18605.5	7293.5	1182.5	1187.1	1325.7	1528.9	1769.1	1718.3	1630.5	1746.0	1699.8
75°	11330.5	4660.6	1030.0	1039.3	1154.8	1358.0	1607.4	1570.5	1464.2	1528.9	1505.8
77.5°	5020.9	2309.5	868.4	886.9	979.2	1196.3	1399.6	1339.5	1228.7	1242.5	1233.3
80°	1949.2	1094.7	706.7	729.8	789.9	956.1	1159.4	1104.0	1007.0	988.5	979.2
82.5°	937.7	609.7	545.0	554.3	577.4	762.1	997.7	928.4	799.1	716.0	716.0
85°	471.1	378.8	383.4	351.0	383.4	517.3	674.4	563.5	466.5	415.7	425.0
87.5°	189.4	189.4	189.4	161.7	170.9	244.8	314.1	212.5	194.0	115.5	115.5
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)