

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: P476849

Luminaire Tested: **IFLD-S-SA6E-722-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476849
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-722-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

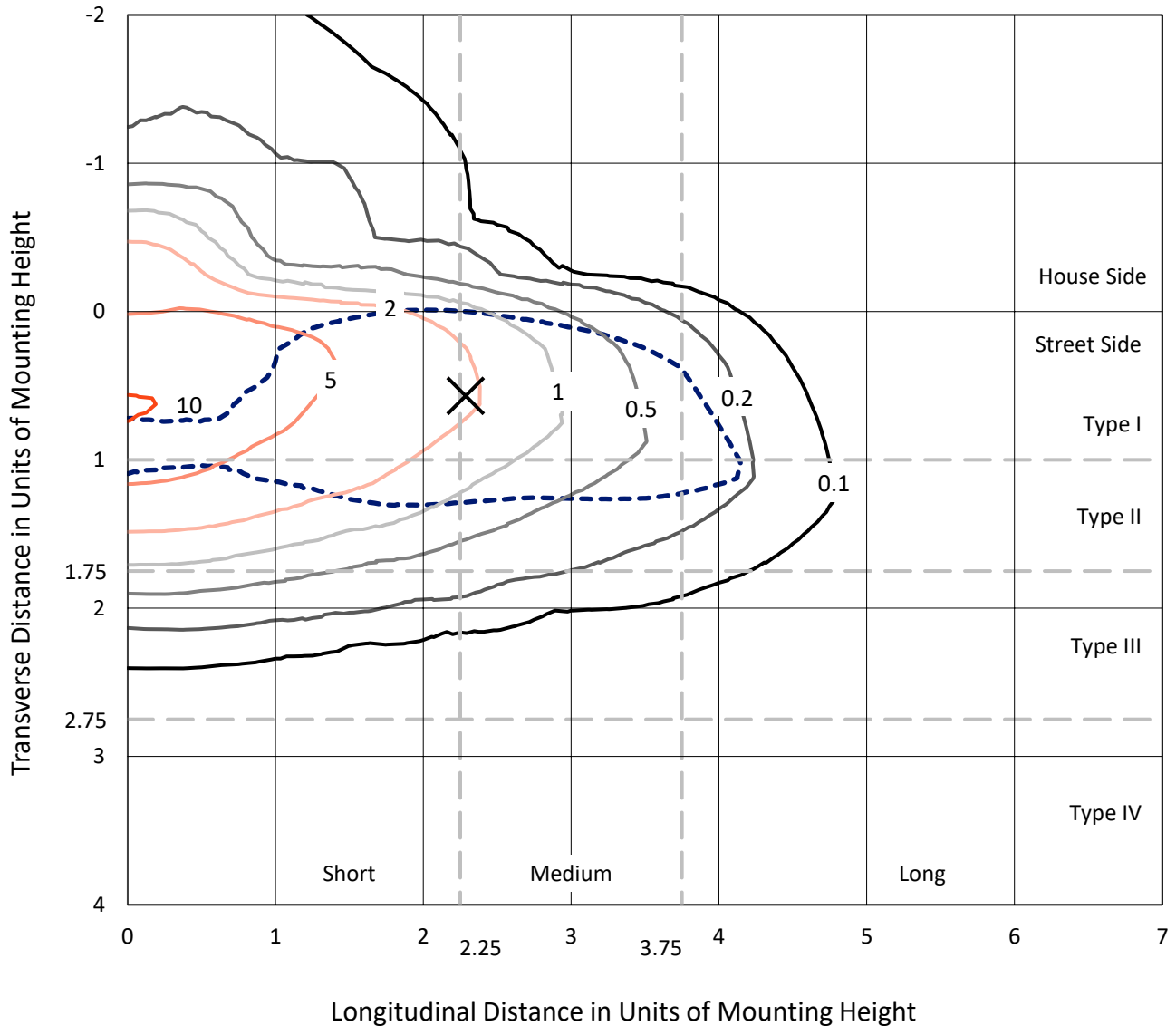
Lumens per Lamp: N/A
Luminaire Lumens: 39194.7 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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

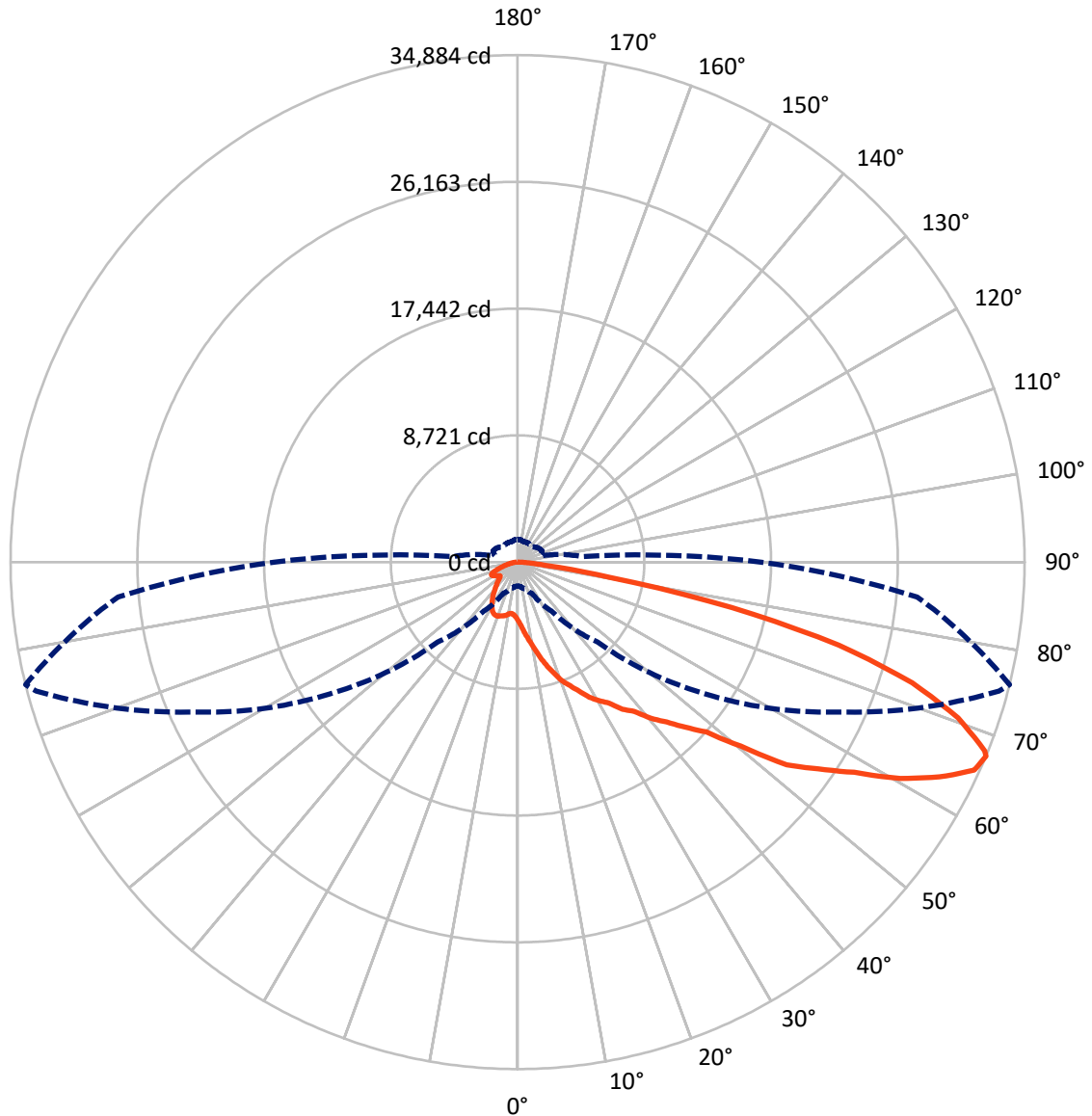
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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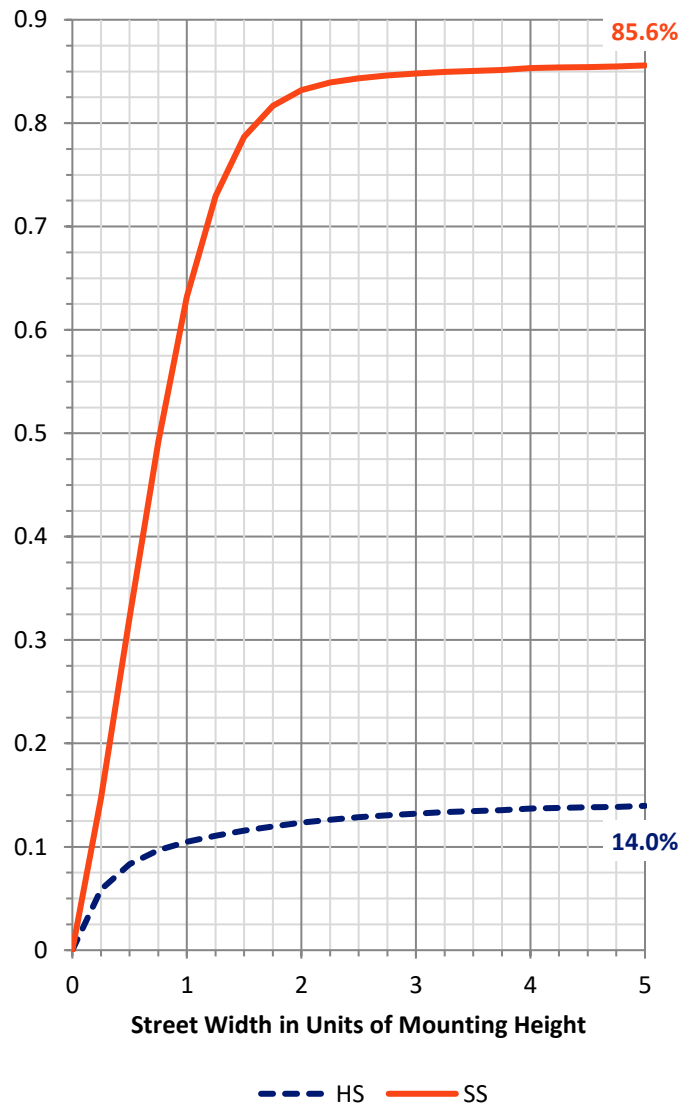
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5575.9	0.0	5575.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	33618.8	0.0	33618.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	39194.7	0.0	39194.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.6	1.2
10°-20°	1742.5	4.4
20°-30°	3239.6	8.3
30°-40°	5135.5	13.1
40°-50°	7102.9	18.1
50°-60°	8737.0	22.3
60°-70°	8130.2	20.7
70°-80°	4079.7	10.4
80°-90°	562.5	1.4
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°	39194.7	100.0
0°-180°	39194.7	100.0

Coefficient of Utilization



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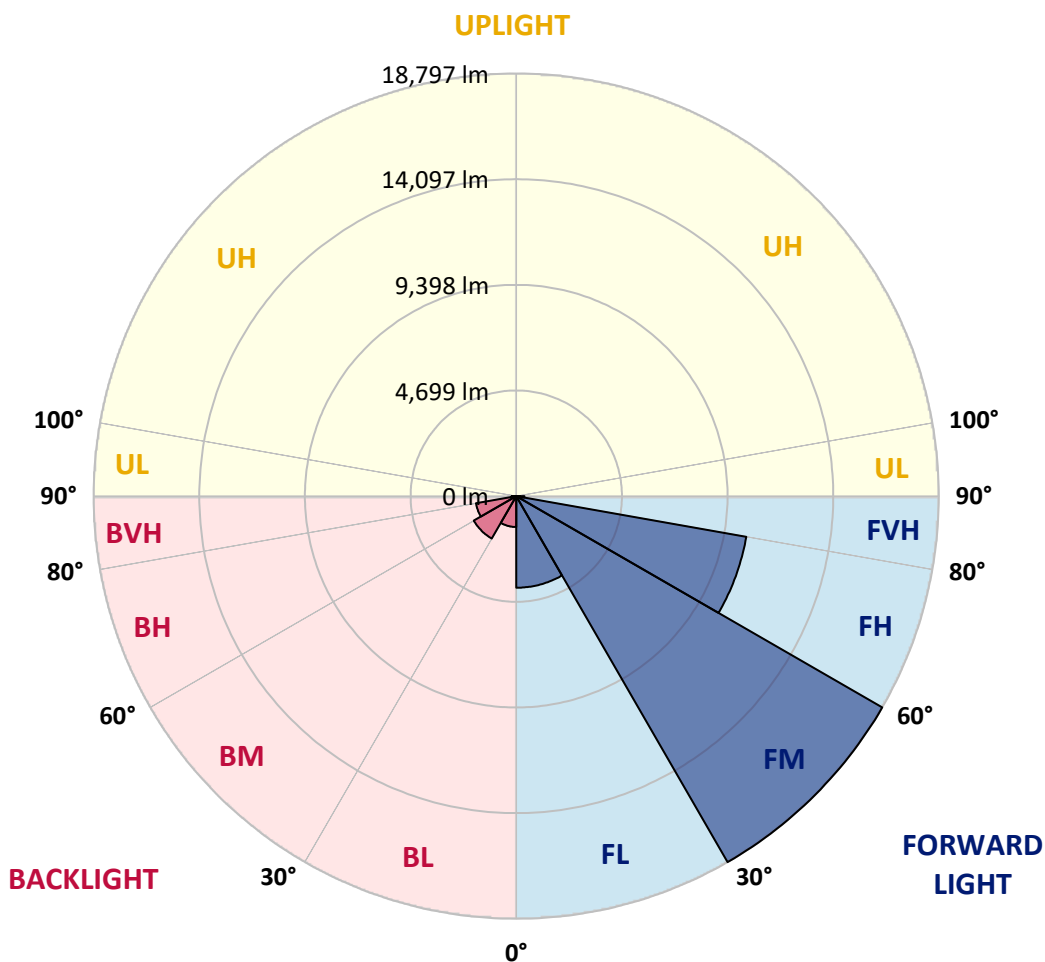
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4073.7	10.4			
FM (30°-60°)	18796.5	48.0			
FH (60°-80°)	10390.2	26.5			G4/12000
FVH (80°-90°)	358.4	0.9			G3/500
BL (0°-30°)	1373.1	3.5	B3/2500		
BM (30°-60°)	2179.0	5.6	B2/2500		
BH (60°-80°)	1819.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	204.1	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4011.0	4011.0	4011.0	4011.0	4011.0	4011.0	4011.0	4011.0	4011.0	4011.0	4011.0
2.5°	5565.4	5498.4	5431.4	5288.4	5239.3	5105.3	4859.6	4587.2	4363.8	4332.6	4176.2
5°	6905.3	6807.1	6784.7	6704.3	6449.7	6190.7	5788.7	5351.0	4806.0	4846.2	4310.2
7.5°	7910.3	7852.2	7731.6	7655.7	7503.8	7159.9	6744.5	6163.9	5471.6	5337.6	4609.5
10°	8669.6	8589.2	8584.8	8517.8	8437.4	8084.5	7767.4	6985.7	6096.9	5913.7	4975.8
12.5°	9053.7	9040.3	9277.1	9277.1	9245.8	9098.4	8553.5	7838.8	6690.9	6628.4	5400.1
15°	9469.1	9357.5	9562.9	9719.3	9799.7	9875.6	9424.5	8669.6	7450.2	7329.6	5855.7
17.5°	9469.1	9460.2	9665.7	9924.7	10344.6	10442.8	10197.2	9433.4	8080.0	7990.7	6355.9
20°	9308.3	9437.9	9580.8	9929.2	10384.8	10782.3	10853.8	10215.1	8776.8	8705.4	6923.2
22.5°	10058.7	9933.7	10081.1	10215.1	10567.9	11170.9	11367.4	10902.9	9509.3	9236.9	7436.8
25°	11318.3	11233.4	11126.2	10929.7	11077.1	11340.6	11639.9	11412.1	10134.7	9830.9	7932.6
27.5°	12546.6	12551.1	12318.8	11890.0	11572.9	11626.5	11979.4	11858.8	10661.7	10527.7	8272.1
30°	14293.0	14185.8	13926.8	13346.1	12725.3	12216.1	12158.0	12274.1	11331.7	11072.6	8759.0
32.5°	15601.7	15624.1	15257.8	14422.6	13573.9	13158.5	12649.3	12698.5	11756.0	11564.0	9147.5
35°	16660.3	16633.5	16374.5	15682.1	14677.2	14176.9	13489.1	13207.7	12743.1	12439.4	9741.6
37.5°	17803.8	17584.9	17165.0	16383.4	15740.2	15047.9	14377.9	13743.6	13399.7	13033.5	10250.8
40°	18263.8	18263.8	17701.0	17343.7	16579.9	16057.3	15624.1	14449.4	14199.2	14127.8	10902.9
42.5°	17937.8	18138.8	17906.5	17500.0	17187.4	16526.3	16410.2	15181.9	15186.4	15043.4	11684.6
45°	17906.5	17629.6	17437.5	17540.2	17392.8	17357.1	17651.9	16195.8	16222.6	16204.7	12734.2
47.5°	17008.7	16883.6	17169.5	17339.2	17459.8	18013.7	18862.3	17406.2	17598.3	17464.3	13944.6
50°	16115.4	16093.1	16271.7	16888.1	17410.7	18321.9	20014.7	19273.3	19903.1	19894.1	16137.7
52.5°	13667.7	13904.4	14605.7	15909.9	17200.8	18741.7	20885.7	21658.4	22859.9	23186.0	17955.6
55°	11327.2	11202.2	12238.4	14132.2	16285.1	18907.0	21859.4	23092.2	24860.9	25097.7	19822.7
57.5°	8812.6	9044.8	9862.2	11680.1	14391.3	18089.6	22574.1	24508.1	27121.0	27304.2	21988.9
60°	6574.8	6606.1	7503.8	8968.9	11872.2	16244.9	22806.3	25959.7	29711.6	30234.2	24258.0
62.5°	4136.0	4323.6	5007.0	6449.7	8937.6	13663.2	21765.6	26839.6	32427.3	32565.8	26544.8
65°	2228.8	2349.4	2863.1	3769.8	6244.3	10335.7	19005.3	26312.6	33704.8	34526.6	27563.2
67°	1648.2	1670.5	1907.2	2407.5	4176.2	7780.8	15847.4	24405.4	34285.4	34883.9	27603.4
67.5°	1545.4	1576.7	1764.3	2161.8	3702.8	7164.4	15021.1	23726.4	34026.4	34669.5	27290.8
70°	1322.1	1331.0	1375.7	1487.4	2077.0	4310.2	10228.5	19443.0	31538.5	32154.9	25097.7
72.5°	1174.7	1183.6	1201.5	1223.8	1407.0	2492.3	6221.9	14963.0	27411.4	28394.0	21653.9
75°	1031.8	1063.0	1072.0	1054.1	1197.0	1621.4	3309.7	10996.7	22359.7	22837.6	16839.0
77.5°	875.4	888.8	906.7	924.6	1067.5	1210.4	1590.1	7423.4	15347.1	15056.8	9107.3
80°	737.0	741.5	754.9	768.3	924.6	924.6	902.2	4011.0	6704.3	6409.5	3077.5
82.5°	527.1	558.3	589.6	625.3	768.3	620.9	589.6	1786.6	2121.6	2018.9	1040.7
85°	205.5	250.1	388.6	428.8	486.9	335.0	393.1	772.7	884.4	875.4	388.6
87.5°	35.7	40.2	107.2	165.3	178.7	116.1	187.6	276.9	330.5	357.3	142.9
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°	4011.0	4011.0	4011.0	4011.0	4011.0	4011.0	4011.0	4011.0	4011.0	4011.0	4011.0
2.5°	4046.7	3908.3	3743.0	3577.7	3470.5	3300.8	3287.4	3184.7	3171.3	3135.5	3153.4
5°	4078.0	3912.7	3577.7	3314.2	3193.6	3095.3	3117.7	3073.0	3059.6	3037.3	3001.5
7.5°	4323.6	3997.6	3497.3	3269.5	3180.2	3135.5	3135.5	3081.9	3041.7	3068.5	3095.3
10°	4484.4	4037.8	3559.9	3332.1	3260.6	3162.3	3198.1	3131.1	3153.4	3099.8	3099.8
12.5°	4743.5	4265.6	3689.4	3425.9	3309.7	3220.4	3256.1	3180.2	3162.3	3166.8	3153.4
15°	5091.9	4417.4	3747.5	3479.5	3399.1	3287.4	3260.6	3193.6	3126.6	3104.3	3131.1
17.5°	5418.0	4605.0	3787.7	3510.7	3381.2	3256.1	3224.9	3140.0	3117.7	3050.7	2997.1
20°	5806.5	4828.4	3841.3	3537.5	3314.2	3189.1	3108.7	3023.9	2947.9	2907.7	2925.6
22.5°	6065.6	4944.5	3868.1	3483.9	3215.9	3099.8	2930.1	2872.0	2764.8	2720.1	2684.4
25°	6489.9	5087.4	3801.1	3336.5	3041.7	2854.1	2702.3	2621.9	2545.9	2487.9	2470.0
27.5°	6597.1	5194.6	3644.7	3086.4	2764.8	2568.3	2438.7	2340.5	2291.4	2202.0	2184.2
30°	6909.8	5087.4	3412.5	2782.7	2501.3	2300.3	2170.8	2099.3	1983.2	1960.8	1911.7
32.5°	7110.8	5118.7	3117.7	2487.9	2197.6	2018.9	1934.0	1862.6	1831.3	1724.1	1697.3
35°	7445.8	5011.5	2818.4	2215.4	1947.4	1809.0	1737.5	1715.2	1612.4	1563.3	1518.6
37.5°	7660.2	4949.0	2519.1	1907.2	1675.0	1616.9	1639.2	1545.4	1420.4	1326.6	1295.3
40°	8035.4	4926.6	2179.7	1652.6	1487.4	1474.0	1545.4	1366.8	1139.0	1058.6	1013.9
42.5°	8575.8	4774.8	1916.2	1424.8	1340.0	1398.0	1411.4	1139.0	1009.4	942.4	911.2
45°	9093.9	4806.0	1657.1	1179.2	1165.8	1250.6	1219.4	964.8	888.8	839.7	866.5
47.5°	10090.0	4962.4	1402.5	982.6	1049.6	1130.0	946.9	862.0	790.6	754.9	759.3
50°	11631.0	5114.2	1179.2	897.8	991.6	1022.8	812.9	781.7	777.2	705.7	701.3
52.5°	12555.5	5056.2	1139.0	1005.0	1063.0	1022.8	884.4	862.0	826.3	795.1	759.3
55°	14025.0	5225.9	1223.8	1174.7	1206.0	982.6	991.6	982.6	955.8	875.4	897.8
57.5°	15195.3	5337.6	1335.5	1313.2	1295.3	1022.8	1036.2	1040.7	1022.8	987.1	1018.4
60°	16803.3	5560.9	1451.6	1456.1	1460.6	1112.2	1134.5	1161.3	1156.8	1143.4	1152.4
62.5°	17790.4	5458.2	1581.2	1652.6	1630.3	1295.3	1290.8	1308.7	1308.7	1331.0	1344.4
65°	17643.0	5078.5	1648.2	1826.8	1710.7	1429.3	1429.3	1438.2	1442.7	1487.4	1491.8
67°	16758.6	4399.6	1612.4	1853.6	1710.7	1482.9	1482.9	1491.8	1460.6	1576.7	1541.0
67.5°	16347.7	4198.6	1581.2	1831.3	1697.3	1478.4	1478.4	1482.9	1456.1	1567.8	1532.0
70°	14217.1	3117.7	1362.3	1621.4	1572.2	1438.2	1438.2	1411.4	1389.1	1536.5	1505.2
72.5°	12135.7	2264.6	1094.3	1380.2	1420.4	1384.6	1393.6	1326.6	1264.0	1366.8	1340.0
75°	9294.9	1666.0	853.1	1063.0	1201.5	1295.3	1353.4	1183.6	1103.2	1130.0	1080.9
77.5°	5185.7	1085.4	674.5	786.1	915.6	1206.0	1299.8	1067.5	902.2	871.0	871.0
80°	1759.8	634.3	495.8	585.1	629.8	1067.5	1214.9	866.5	710.2	678.9	656.6
82.5°	665.5	388.6	339.5	402.0	402.0	844.2	991.6	665.5	536.0	692.3	705.7
85°	303.7	232.3	223.3	232.3	232.3	518.1	701.3	433.3	482.4	415.4	366.3
87.5°	120.6	111.7	102.7	98.3	80.4	89.3	241.2	116.1	218.9	58.1	53.6
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)