

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: P477004

Luminaire Tested: **IFLD-S-SA6D-740-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477004
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-740-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

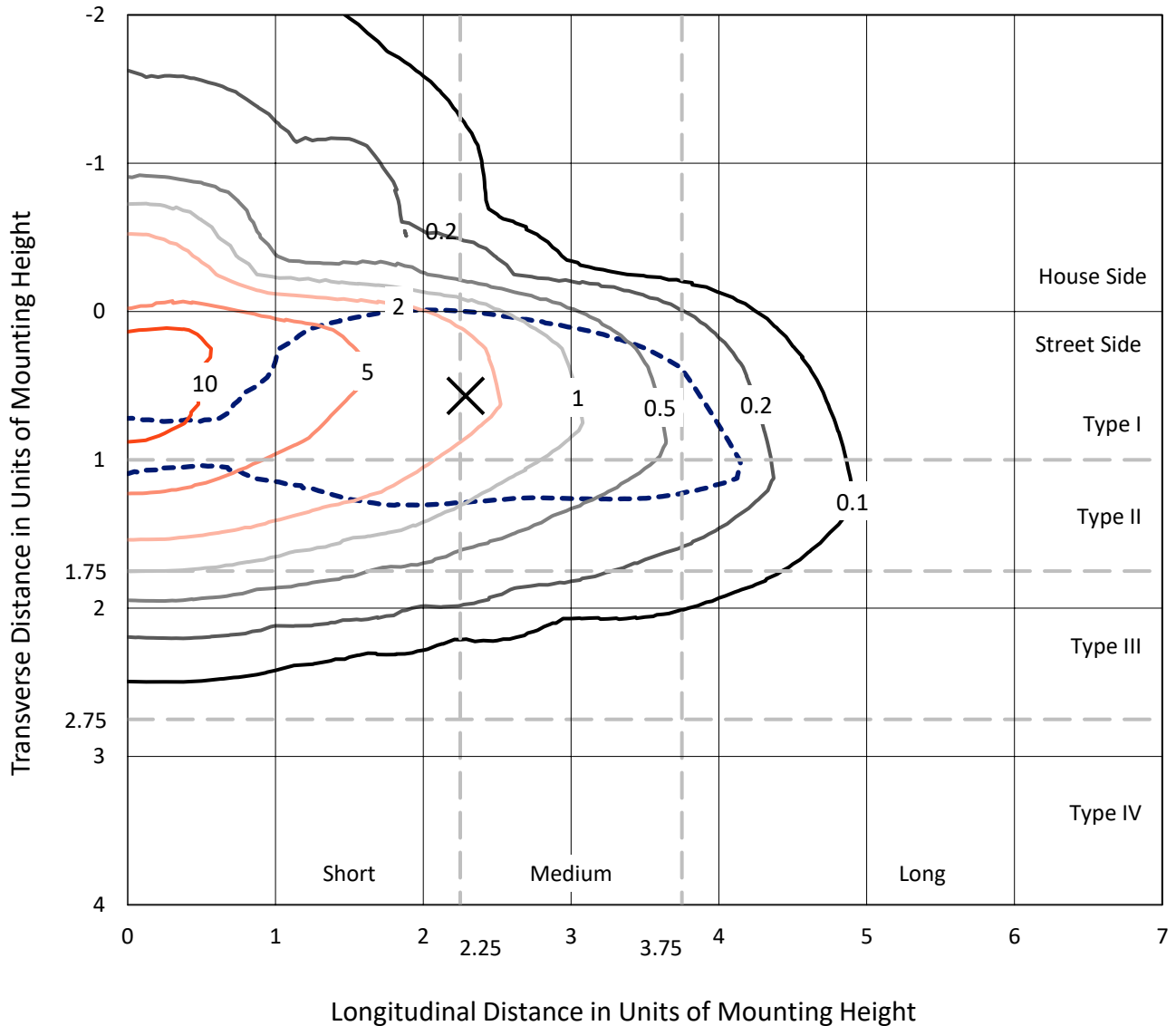
Lumens per Lamp: N/A
Luminaire Lumens: 45978.8 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

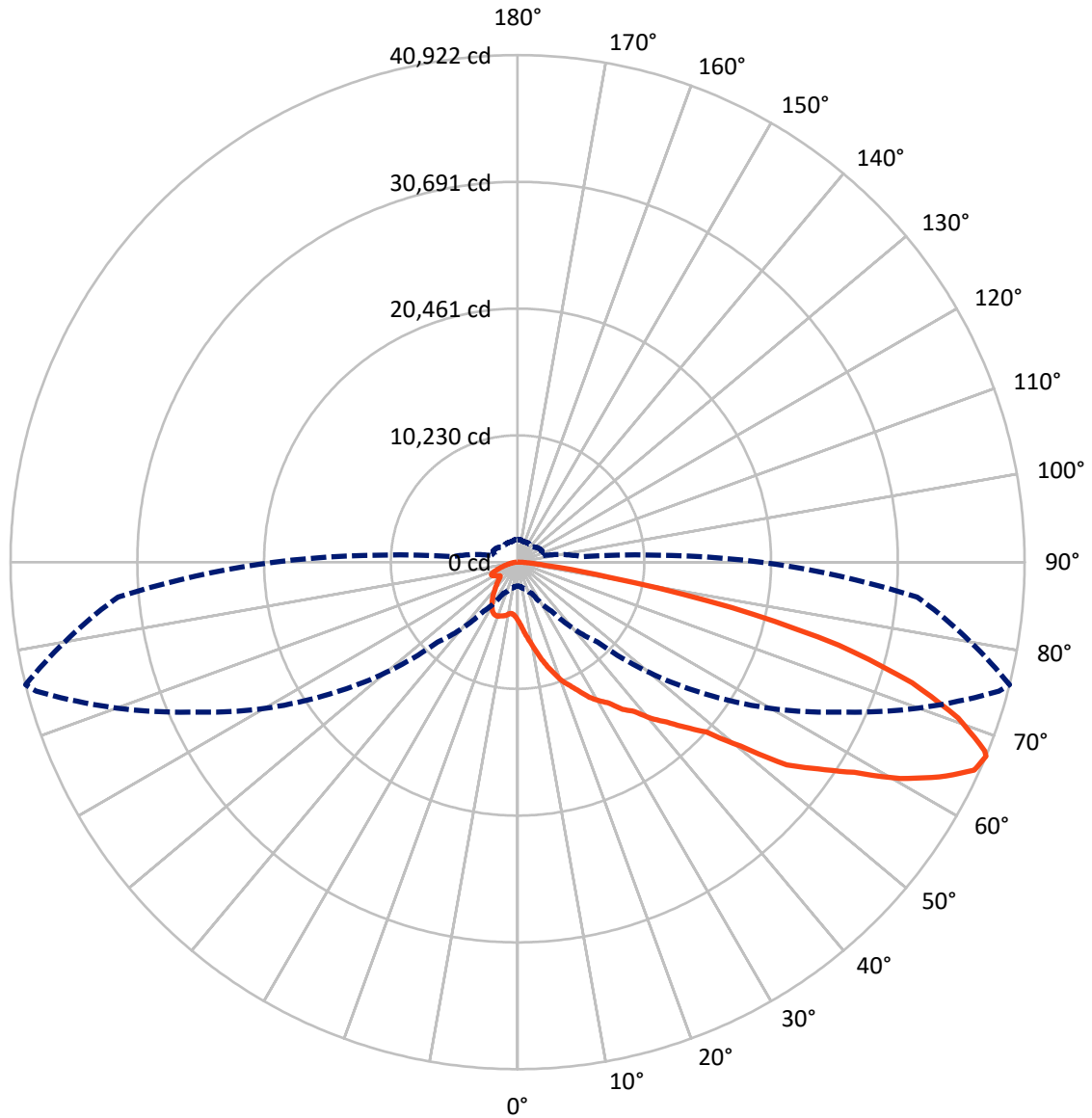
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.2 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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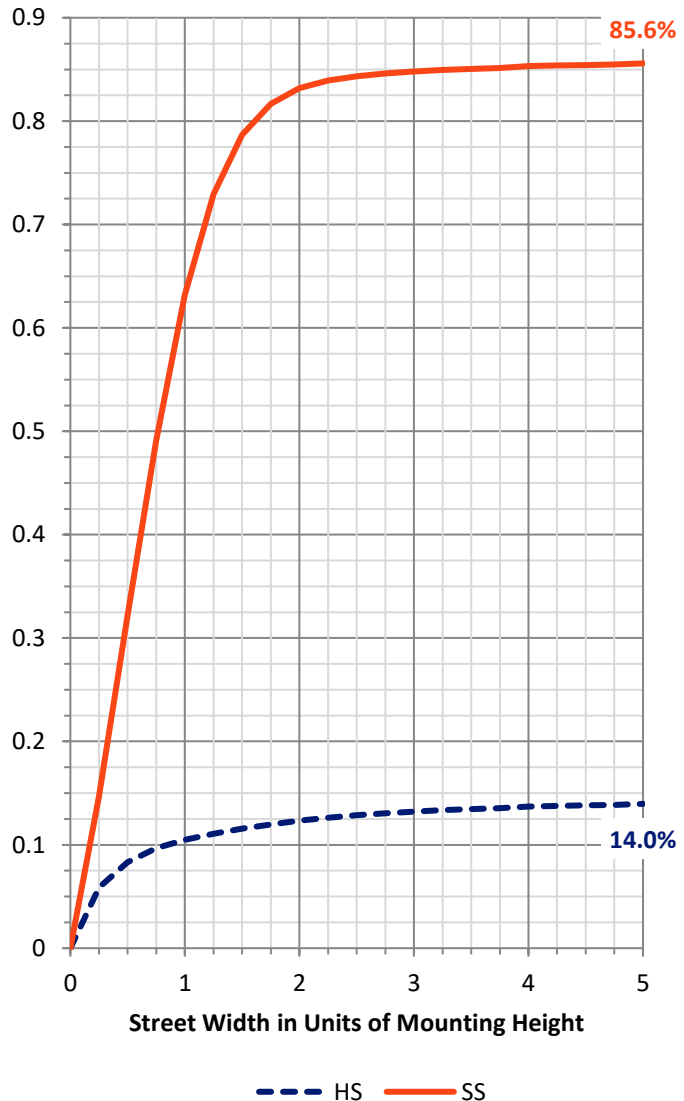
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6541.1	0.0	6541.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	39437.7	0.0	39437.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	45978.8	0.0	45978.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.0	1.2
10°-20°	2044.2	4.4
20°-30°	3800.4	8.3
30°-40°	6024.4	13.1
40°-50°	8332.3	18.1
50°-60°	10249.3	22.3
60°-70°	9537.5	20.7
70°-80°	4785.8	10.4
80°-90°	659.9	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°	45978.8	100.0
0°-180°	45978.8	100.0

Coefficient of Utilization



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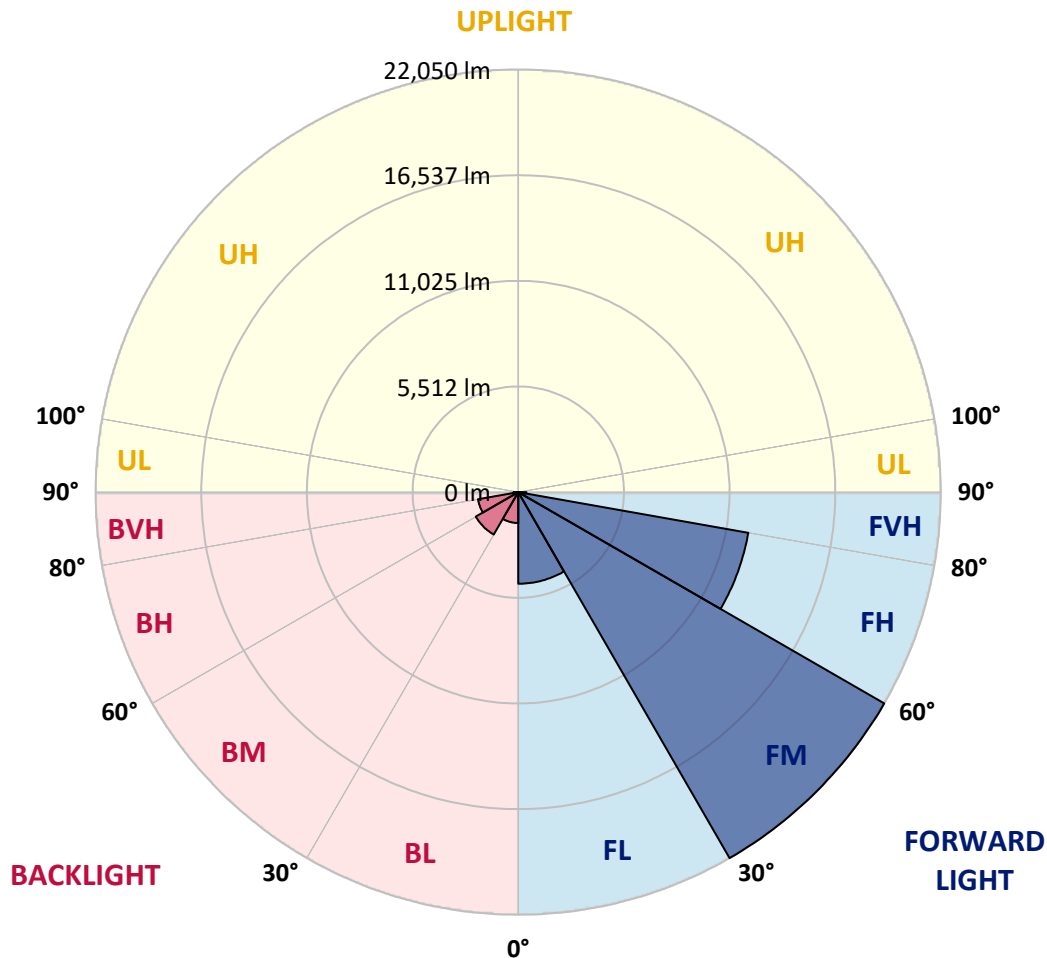
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4778.7	10.4			
FM (30°-60°)	22050.0	48.0			
FH (60°-80°)	12188.6	26.5			G5
FVH (80°-90°)	420.4	0.9			G3/500
BL (0°-30°)	1610.8	3.5	B3/2500		
BM (30°-60°)	2556.1	5.6	B3/5000		
BH (60°-80°)	2134.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	239.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4705.2	4705.2	4705.2	4705.2	4705.2	4705.2	4705.2	4705.2	4705.2	4705.2	4705.2
2.5°	6528.6	6450.0	6371.4	6203.8	6146.1	5988.9	5700.8	5381.1	5119.2	5082.5	4899.1
5°	8100.5	7985.3	7959.1	7864.8	7566.1	7262.2	6790.6	6277.1	5637.9	5685.0	5056.3
7.5°	9279.5	9211.3	9069.9	8980.8	8802.7	8399.2	7911.9	7230.8	6418.6	6261.4	5407.3
10°	10170.2	10075.9	10070.7	9992.1	9897.7	9483.8	9111.8	8194.9	7152.2	6937.3	5837.0
12.5°	10620.8	10605.1	10882.8	10882.8	10846.1	10673.2	10034.0	9195.6	7849.0	7775.7	6334.8
15°	11108.1	10977.1	11218.1	11401.5	11495.8	11584.9	11055.7	10170.2	8739.8	8598.3	6869.2
17.5°	11108.1	11097.6	11338.7	11642.6	12135.1	12250.4	11962.2	11066.2	9478.6	9373.8	7456.1
20°	10919.5	11071.4	11239.1	11647.8	12182.2	12648.6	12732.4	11983.1	10296.0	10212.1	8121.5
22.5°	11799.7	11653.0	11825.9	11983.1	12397.1	13104.4	13335.0	12790.0	11155.3	10835.6	8724.1
25°	13277.3	13177.8	13052.0	12821.5	12994.4	13303.5	13654.6	13387.4	11888.8	11532.5	9305.7
27.5°	14718.2	14723.5	14451.0	13948.0	13576.0	13638.9	14052.8	13911.3	12507.1	12349.9	9703.9
30°	16767.0	16641.2	16337.3	15656.1	14927.8	14330.5	14262.4	14398.6	13293.1	12989.2	10275.0
32.5°	18302.2	18328.4	17898.7	16918.9	15923.4	15436.1	14838.8	14896.4	13790.8	13565.5	10730.9
35°	19544.0	19512.5	19208.6	18396.5	17217.6	16630.7	15823.8	15493.7	14948.8	14592.5	11427.7
37.5°	20885.3	20628.6	20136.1	19219.1	18464.6	17652.5	16866.5	16122.5	15719.0	15289.4	12025.1
40°	21425.0	21425.0	20764.8	20345.7	19449.7	18836.6	18328.4	16950.3	16656.9	16573.1	12790.0
42.5°	21042.5	21278.3	21005.9	20529.0	20162.3	19386.8	19250.6	17809.7	17814.9	17647.2	13707.0
45°	21005.9	20681.0	20455.7	20576.2	20403.3	20361.4	20707.2	18999.1	19030.5	19009.5	14938.3
47.5°	19952.7	19806.0	20141.3	20340.4	20481.9	21131.6	22127.1	20419.0	20644.3	20487.1	16358.3
50°	18904.7	18878.5	19088.1	19811.2	20424.3	21493.1	23479.0	22609.2	23348.0	23337.5	18930.9
52.5°	16033.4	16311.1	17133.7	18663.7	20178.0	21985.7	24500.7	25407.2	26816.7	27199.2	21063.5
55°	13287.8	13141.1	14356.7	16578.3	19103.9	22179.5	25643.0	27089.1	29164.0	29441.7	23253.7
57.5°	10337.9	10610.3	11569.2	13701.7	16882.2	21220.7	26481.3	28750.1	31815.3	32030.1	25794.9
60°	7712.8	7749.5	8802.7	10521.3	13927.1	19056.7	26753.8	30453.0	34854.3	35467.4	28456.7
62.5°	4851.9	5072.0	5873.7	7566.1	10484.6	16028.2	25532.9	31485.2	38040.0	38202.5	31139.4
65°	2614.6	2756.1	3358.6	4422.3	7325.1	12124.6	22294.8	30866.9	39538.6	40502.7	32334.0
67°	1933.4	1959.6	2237.3	2824.2	4899.1	9127.5	18590.4	28629.6	40219.7	40921.9	32381.2
67.5°	1812.9	1849.6	2069.7	2536.0	4343.7	8404.4	17621.0	27833.2	39915.8	40670.4	32014.4
70°	1550.9	1561.4	1613.8	1744.8	2436.4	5056.3	11998.9	22808.3	36997.3	37720.4	29441.7
72.5°	1378.0	1388.5	1409.5	1435.7	1650.5	2923.7	7298.9	17552.9	32155.9	33308.6	25401.9
75°	1210.4	1247.0	1257.5	1236.6	1404.2	1902.0	3882.6	12900.1	26229.8	26790.5	19753.6
77.5°	1027.0	1042.7	1063.7	1084.6	1252.3	1420.0	1865.3	8708.3	18003.5	17662.9	10683.7
80°	864.5	869.8	885.5	901.2	1084.6	1084.6	1058.4	4705.2	7864.8	7518.9	3610.1
82.5°	618.3	655.0	691.6	733.6	901.2	728.3	691.6	2095.9	2488.8	2368.3	1220.8
85°	241.0	293.4	455.9	503.0	571.1	393.0	461.1	906.5	1037.5	1027.0	455.9
87.5°	41.9	47.2	125.8	193.9	209.6	136.2	220.1	324.9	387.7	419.2	167.7
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°	4705.2	4705.2	4705.2	4705.2	4705.2	4705.2	4705.2	4705.2	4705.2	4705.2	4705.2
2.5°	4747.1	4584.7	4390.8	4197.0	4071.2	3872.1	3856.4	3735.9	3720.2	3678.3	3699.2
5°	4783.8	4590.0	4197.0	3887.8	3746.4	3631.1	3657.3	3604.9	3589.2	3563.0	3521.1
7.5°	5072.0	4689.5	4102.7	3835.4	3730.6	3678.3	3678.3	3615.4	3568.2	3599.7	3631.1
10°	5260.6	4736.7	4176.0	3908.8	3825.0	3709.7	3751.6	3673.0	3699.2	3636.3	3636.3
12.5°	5564.5	5003.9	4328.0	4018.8	3882.6	3777.8	3819.7	3730.6	3709.7	3714.9	3699.2
15°	5973.2	5182.0	4396.1	4081.7	3987.4	3856.4	3825.0	3746.4	3667.8	3641.6	3673.0
17.5°	6355.7	5402.1	4443.2	4118.4	3966.4	3819.7	3783.0	3683.5	3657.3	3578.7	3515.8
20°	6811.6	5664.1	4506.1	4149.8	3887.8	3741.1	3646.8	3547.3	3458.2	3411.0	3432.0
22.5°	7115.5	5800.3	4537.6	4086.9	3772.6	3636.3	3437.2	3369.1	3243.4	3191.0	3149.0
25°	7613.2	5968.0	4459.0	3914.0	3568.2	3348.2	3170.0	3075.7	2986.6	2918.5	2897.5
27.5°	7739.0	6093.7	4275.6	3620.6	3243.4	3012.8	2860.9	2745.6	2688.0	2583.2	2562.2
30°	8105.8	5968.0	4003.1	3264.3	2934.2	2698.4	2546.5	2462.6	2326.4	2300.2	2242.6
32.5°	8341.6	6004.7	3657.3	2918.5	2577.9	2368.3	2268.8	2184.9	2148.3	2022.5	1991.1
35°	8734.5	5878.9	3306.2	2598.9	2284.5	2122.1	2038.2	2012.0	1891.5	1833.9	1781.5
37.5°	8986.0	5805.6	2955.2	2237.3	1964.9	1896.8	1923.0	1812.9	1666.2	1556.2	1519.5
40°	9426.2	5779.4	2557.0	1938.7	1744.8	1729.1	1812.9	1603.3	1336.1	1241.8	1189.4
42.5°	10060.2	5601.2	2247.8	1671.5	1571.9	1640.0	1655.7	1336.1	1184.2	1105.6	1068.9
45°	10668.0	5637.9	1943.9	1383.3	1367.6	1467.1	1430.4	1131.8	1042.7	985.1	1016.5
47.5°	11836.4	5821.3	1645.3	1152.7	1231.3	1325.6	1110.8	1011.3	927.4	885.5	890.7
50°	13644.1	5999.4	1383.3	1053.2	1163.2	1199.9	953.6	916.9	911.7	827.9	822.6
52.5°	14728.7	5931.3	1336.1	1178.9	1247.0	1199.9	1037.5	1011.3	969.3	932.7	890.7
55°	16452.6	6130.4	1435.7	1378.0	1414.7	1152.7	1163.2	1152.7	1121.3	1027.0	1053.2
57.5°	17825.4	6261.4	1566.7	1540.5	1519.5	1199.9	1215.6	1220.8	1199.9	1158.0	1194.6
60°	19711.7	6523.4	1702.9	1708.1	1713.4	1304.7	1330.9	1362.3	1357.1	1341.4	1351.8
62.5°	20869.6	6402.9	1854.8	1938.7	1912.5	1519.5	1514.3	1535.2	1535.2	1561.4	1577.1
65°	20696.7	5957.5	1933.4	2143.0	2006.8	1676.7	1676.7	1687.2	1692.4	1744.8	1750.1
67°	19659.3	5161.1	1891.5	2174.5	2006.8	1739.6	1739.6	1750.1	1713.4	1849.6	1807.7
67.5°	19177.2	4925.3	1854.8	2148.3	1991.1	1734.3	1734.3	1739.6	1708.1	1839.1	1797.2
70°	16677.9	3657.3	1598.1	1902.0	1844.4	1687.2	1687.2	1655.7	1629.5	1802.4	1765.8
72.5°	14236.2	2656.5	1283.7	1619.1	1666.2	1624.3	1634.8	1556.2	1482.8	1603.3	1571.9
75°	10903.8	1954.4	1000.8	1247.0	1409.5	1519.5	1587.6	1388.5	1294.2	1325.6	1268.0
77.5°	6083.3	1273.2	791.2	922.2	1074.1	1414.7	1524.7	1252.3	1058.4	1021.7	1021.7
80°	2064.4	744.0	581.6	686.4	738.8	1252.3	1425.2	1016.5	833.1	796.4	770.2
82.5°	780.7	455.9	398.2	471.6	471.6	990.3	1163.2	780.7	628.8	812.1	827.9
85°	356.3	272.5	262.0	272.5	272.5	607.8	822.6	508.2	565.9	487.3	429.7
87.5°	141.5	131.0	120.5	115.3	94.3	104.8	282.9	136.2	256.7	68.1	62.9
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)