

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: P476888

Luminaire Tested: **IFLD-S-SA6E-727-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476888
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-727-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

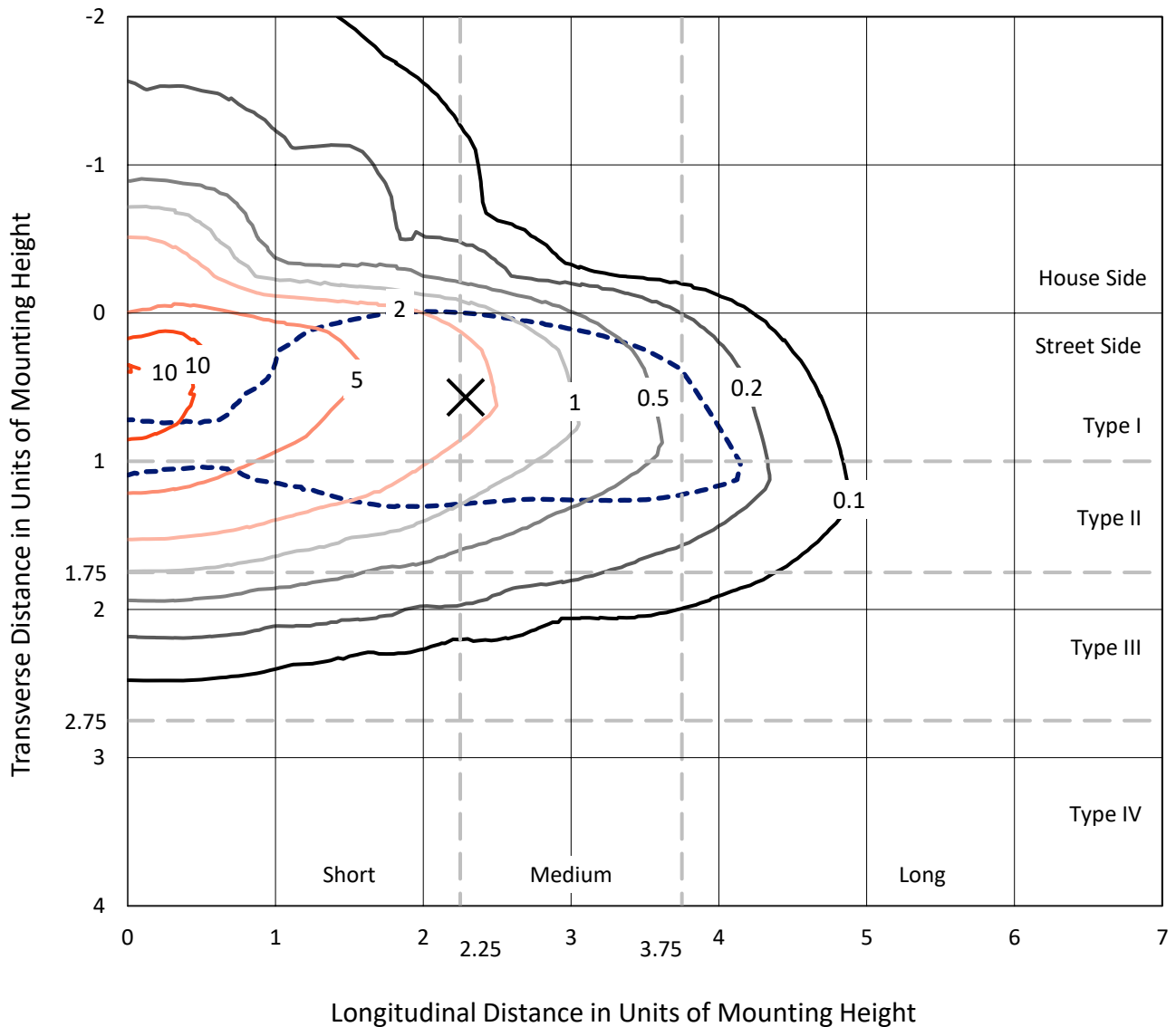
Lumens per Lamp: N/A
Luminaire Lumens: 44499.8 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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

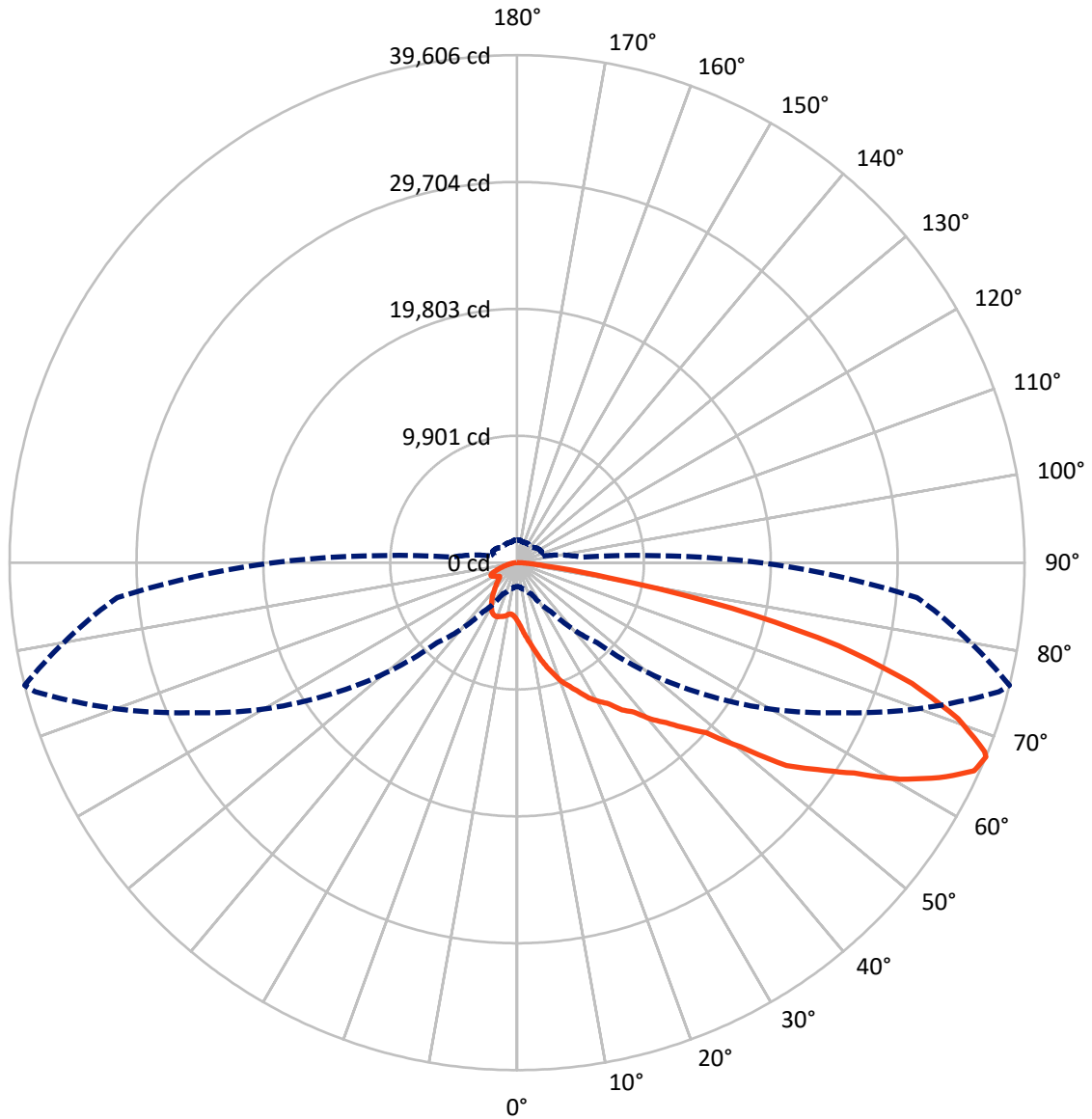
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.8 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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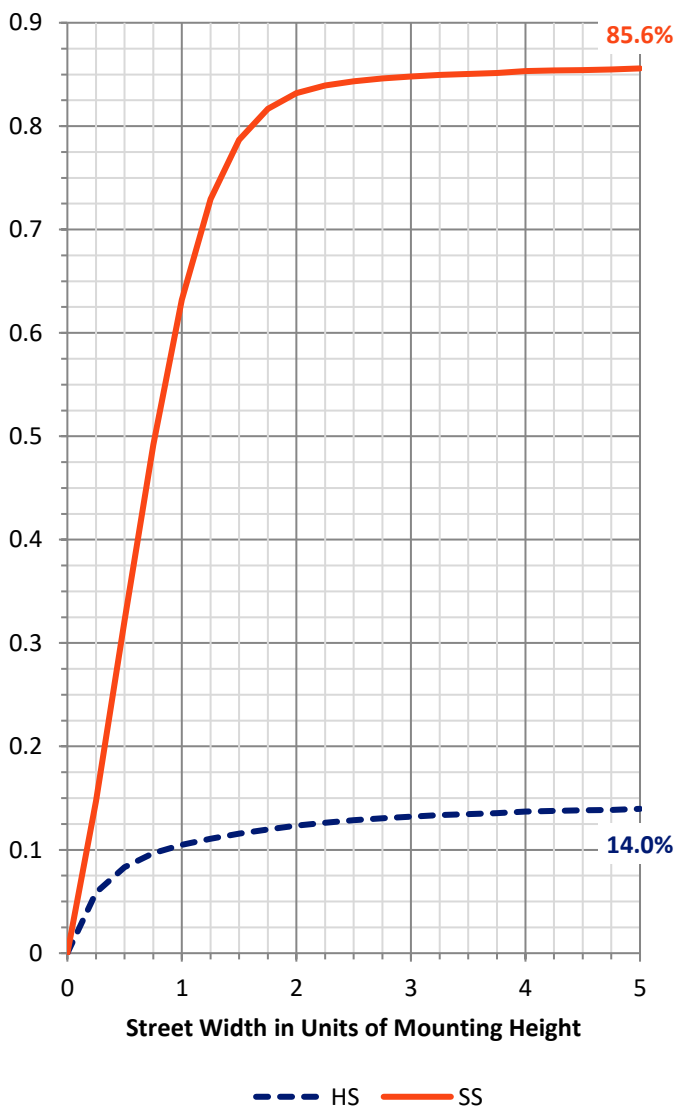
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6330.7	0.0	6330.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	38169.2	0.0	38169.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	44499.8	0.0	44499.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.5	1.2
10°-20°	1978.4	4.4
20°-30°	3678.1	8.3
30°-40°	5830.7	13.1
40°-50°	8064.3	18.1
50°-60°	9919.6	22.3
60°-70°	9230.7	20.7
70°-80°	4631.9	10.4
80°-90°	638.7	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°	44499.8	100.0
0°-180°	44499.8	100.0

Coefficient of Utilization



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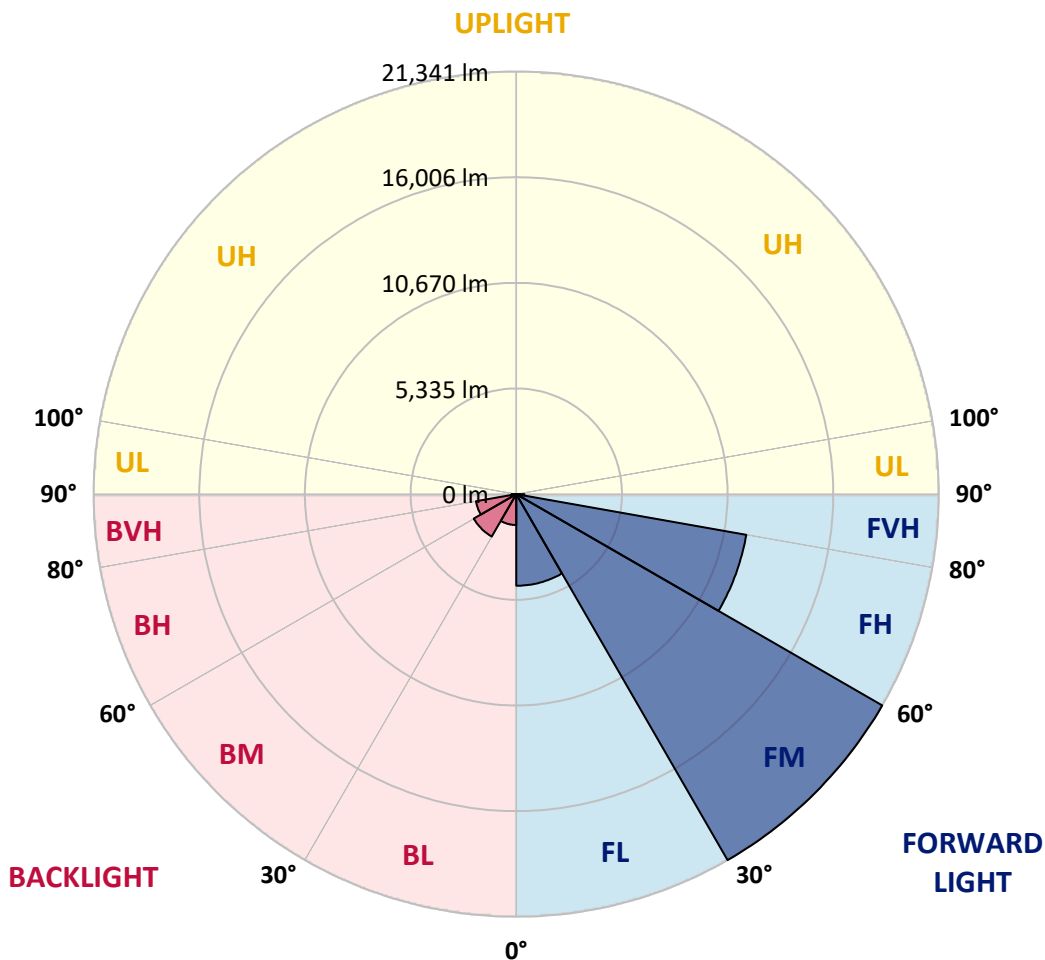
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4625.0	10.4			
FM (30°-60°)	21340.7	48.0			
FH (60°-80°)	11796.5	26.5			G4/12000
FVH (80°-90°)	406.9	0.9			G3/500
BL (0°-30°)	1559.0	3.5	B3/2500		
BM (30°-60°)	2473.9	5.6	B2/2500		
BH (60°-80°)	2066.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	231.8	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4553.9	4553.9	4553.9	4553.9	4553.9	4553.9	4553.9	4553.9	4553.9	4553.9	4553.9
2.5°	6318.6	6242.6	6166.5	6004.2	5948.4	5796.3	5517.4	5208.1	4954.5	4919.0	4741.5
5°	7840.0	7728.4	7703.0	7611.8	7322.7	7028.6	6572.2	6075.2	5456.5	5502.2	4893.6
7.5°	8981.0	8915.0	8778.1	8691.9	8519.5	8129.0	7657.4	6998.2	6212.1	6060.0	5233.4
10°	9843.1	9751.8	9746.7	9670.6	9579.4	9178.7	8818.7	7931.3	6922.1	6714.2	5649.2
12.5°	10279.2	10264.0	10532.7	10532.7	10497.2	10329.9	9711.2	8899.8	7596.6	7525.6	6131.0
15°	10750.8	10624.0	10857.3	11034.8	11126.1	11212.3	10700.1	9843.1	8458.6	8321.7	6648.3
17.5°	10750.8	10740.7	10973.9	11268.1	11744.7	11856.3	11577.4	10710.2	9173.7	9072.3	7216.2
20°	10568.2	10715.3	10877.6	11273.1	11790.4	12241.7	12322.9	11597.7	9964.8	9883.6	7860.3
22.5°	11420.2	11278.2	11445.5	11597.7	11998.3	12682.9	12906.0	12378.6	10796.4	10487.1	8443.4
25°	12850.2	12753.9	12632.2	12409.1	12576.4	12875.6	13215.4	12956.7	11506.4	11161.6	9006.3
27.5°	14244.8	14249.9	13986.2	13499.4	13139.3	13200.2	13600.8	13463.9	12104.8	11952.7	9391.7
30°	16227.6	16105.9	15811.8	15152.5	14447.7	13869.5	13803.6	13935.5	12865.5	12571.3	9944.5
32.5°	17713.5	17738.8	17323.0	16374.7	15411.2	14939.6	14361.4	14417.2	13347.2	13129.2	10385.7
35°	18915.3	18884.9	18590.8	17804.7	16663.7	16095.8	15314.8	14995.3	14467.9	14123.1	11060.1
37.5°	20213.5	19965.0	19488.4	18600.9	17870.7	17084.6	16324.0	15603.9	15213.4	14797.6	11638.2
40°	20735.9	20735.9	20096.9	19691.2	18824.0	18230.7	17738.8	16405.1	16121.1	16040.0	12378.6
42.5°	20365.7	20593.9	20330.2	19868.7	19513.7	18763.2	18631.3	17236.8	17241.8	17079.6	13266.1
45°	20330.2	20015.8	19797.7	19914.3	19747.0	19706.4	20041.1	18387.9	18418.4	18398.1	14457.8
47.5°	19310.9	19168.9	19493.4	19686.1	19823.1	20451.9	21415.4	19762.2	19980.3	19828.1	15832.1
50°	18296.6	18271.3	18474.1	19173.9	19767.3	20801.8	22723.7	21881.9	22597.0	22586.8	18322.0
52.5°	15517.7	15786.4	16582.6	18063.4	19528.9	21278.5	23712.6	24589.9	25954.1	26324.2	20385.9
55°	12860.4	12718.4	13894.9	16045.1	18489.3	21466.1	24818.1	26217.8	28225.9	28494.7	22505.7
57.5°	10005.3	10269.0	11197.1	13261.0	16339.2	20538.1	25629.5	27825.3	30791.9	30999.8	24965.2
60°	7464.7	7500.2	8519.5	10182.8	13479.1	18443.7	25893.2	29473.4	33733.2	34326.5	27541.3
62.5°	4695.9	4908.9	5684.7	7322.7	10147.3	15512.6	24711.6	30472.4	36816.4	36973.6	30137.7
65°	2530.5	2667.4	3250.6	4280.0	7089.4	11734.6	21577.7	29874.0	38266.8	39199.8	31294.0
67°	1871.2	1896.6	2165.4	2733.3	4741.5	8833.9	17992.4	27708.7	38926.0	39605.5	31339.6
67.5°	1754.6	1790.1	2003.1	2454.4	4204.0	8134.1	17054.2	26937.9	38631.9	39362.1	30984.6
70°	1501.1	1511.2	1561.9	1688.7	2358.1	4893.6	11612.9	22074.6	35807.3	36507.1	28494.7
72.5°	1333.7	1343.8	1364.1	1389.5	1597.4	2829.7	7064.1	16988.3	31121.5	32237.2	24584.8
75°	1171.4	1206.9	1217.1	1196.8	1359.1	1840.8	3757.7	12485.1	25386.1	25928.7	19118.2
77.5°	993.9	1009.2	1029.4	1049.7	1212.0	1374.3	1805.3	8428.2	17424.4	17094.8	10340.0
80°	836.7	841.8	857.0	872.2	1049.7	1049.7	1024.4	4553.9	7611.8	7277.1	3494.0
82.5°	598.4	633.9	669.4	710.0	872.2	704.9	669.4	2028.5	2408.8	2292.2	1181.6
85°	233.3	284.0	441.2	486.8	552.8	380.3	446.3	877.3	1004.1	993.9	441.2
87.5°	40.6	45.6	121.7	187.6	202.8	131.8	213.0	314.4	375.3	405.7	162.3
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°	4553.9	4553.9	4553.9	4553.9	4553.9	4553.9	4553.9	4553.9	4553.9	4553.9	4553.9
2.5°	4594.4	4437.2	4249.6	4062.0	3940.3	3747.6	3732.4	3615.7	3600.5	3559.9	3580.2
5°	4629.9	4442.3	4062.0	3762.8	3625.9	3514.3	3539.6	3488.9	3473.7	3448.4	3407.8
7.5°	4908.9	4538.7	3970.7	3712.1	3610.6	3559.9	3559.9	3499.1	3453.4	3483.9	3514.3
10°	5091.4	4584.3	4041.7	3783.1	3701.9	3590.4	3630.9	3554.9	3580.2	3519.4	3519.4
12.5°	5385.5	4842.9	4188.8	3889.6	3757.7	3656.3	3696.9	3610.6	3590.4	3595.4	3580.2
15°	5781.1	5015.3	4254.7	3950.4	3859.1	3732.4	3701.9	3625.9	3549.8	3524.4	3554.9
17.5°	6151.3	5228.3	4300.3	3985.9	3838.8	3696.9	3661.4	3565.0	3539.6	3463.6	3402.7
20°	6592.5	5481.9	4361.2	4016.3	3762.8	3620.8	3529.5	3433.2	3346.9	3301.3	3321.6
22.5°	6886.6	5613.7	4391.6	3955.5	3651.2	3519.4	3326.7	3260.7	3139.0	3088.3	3047.8
25°	7368.4	5776.0	4315.5	3788.1	3453.4	3240.5	3068.0	2976.8	2890.5	2824.6	2804.3
27.5°	7490.1	5897.7	4138.0	3504.2	3139.0	2915.9	2768.8	2657.3	2601.5	2500.1	2479.8
30°	7845.0	5776.0	3874.3	3159.3	2839.8	2611.6	2464.6	2383.4	2251.6	2226.2	2170.4
32.5°	8073.2	5811.5	3539.6	2824.6	2495.0	2292.2	2195.8	2114.7	2079.2	1957.5	1927.0
35°	8453.6	5689.8	3199.9	2515.3	2211.0	2053.8	1972.7	1947.3	1830.7	1774.9	1724.2
37.5°	8697.0	5618.8	2860.1	2165.4	1901.7	1835.7	1861.1	1754.6	1612.6	1506.1	1470.6
40°	9123.0	5593.5	2474.7	1876.3	1688.7	1673.5	1754.6	1551.8	1293.1	1201.9	1151.1
42.5°	9736.6	5421.0	2175.5	1617.7	1521.3	1587.3	1602.5	1293.1	1146.1	1070.0	1034.5
45°	10324.8	5456.5	1881.4	1338.8	1323.6	1419.9	1384.4	1095.4	1009.2	953.4	983.8
47.5°	11455.7	5634.0	1592.3	1115.6	1191.7	1283.0	1075.1	978.7	897.6	857.0	862.1
50°	13205.2	5806.4	1338.8	1019.3	1125.8	1161.3	922.9	887.4	882.4	801.2	796.2
52.5°	14255.0	5740.5	1293.1	1141.0	1206.9	1161.3	1004.1	978.7	938.2	902.7	862.1
55°	15923.4	5933.2	1389.5	1333.7	1369.2	1115.6	1125.8	1115.6	1085.2	993.9	1019.3
57.5°	17252.0	6060.0	1516.3	1490.9	1470.6	1161.3	1176.5	1181.6	1161.3	1120.7	1156.2
60°	19077.6	6313.6	1648.1	1653.2	1658.3	1262.7	1288.1	1318.5	1313.4	1298.2	1308.4
62.5°	20198.3	6196.9	1795.2	1876.3	1851.0	1470.6	1465.6	1485.8	1485.8	1511.2	1526.4
65°	20031.0	5765.9	1871.2	2074.1	1942.2	1622.8	1622.8	1632.9	1638.0	1688.7	1693.8
67°	19026.9	4995.1	1830.7	2104.5	1942.2	1683.6	1683.6	1693.8	1658.3	1790.1	1749.5
67.5°	18560.3	4766.9	1795.2	2079.2	1927.0	1678.5	1678.5	1683.6	1653.2	1780.0	1739.4
70°	16141.4	3539.6	1546.7	1840.8	1785.0	1632.9	1632.9	1602.5	1577.1	1744.5	1709.0
72.5°	13778.3	2571.1	1242.4	1567.0	1612.6	1572.1	1582.2	1506.1	1435.1	1551.8	1521.3
75°	10553.0	1891.5	968.6	1206.9	1364.1	1470.6	1536.6	1343.8	1252.6	1283.0	1227.2
77.5°	5887.6	1232.3	765.7	892.5	1039.6	1369.2	1475.7	1212.0	1024.4	988.9	988.9
80°	1998.0	720.1	562.9	664.3	715.0	1212.0	1379.3	983.8	806.3	770.8	745.5
82.5°	755.6	441.2	385.4	456.4	456.4	958.4	1125.8	755.6	608.5	786.0	801.2
85°	344.8	263.7	253.6	263.7	263.7	588.3	796.2	491.9	547.7	471.6	415.8
87.5°	136.9	126.8	116.6	111.6	91.3	101.4	273.8	131.8	248.5	65.9	60.9
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)