

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: P478057

Luminaire Tested: **IFLD-S-SA6D-727-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478057
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

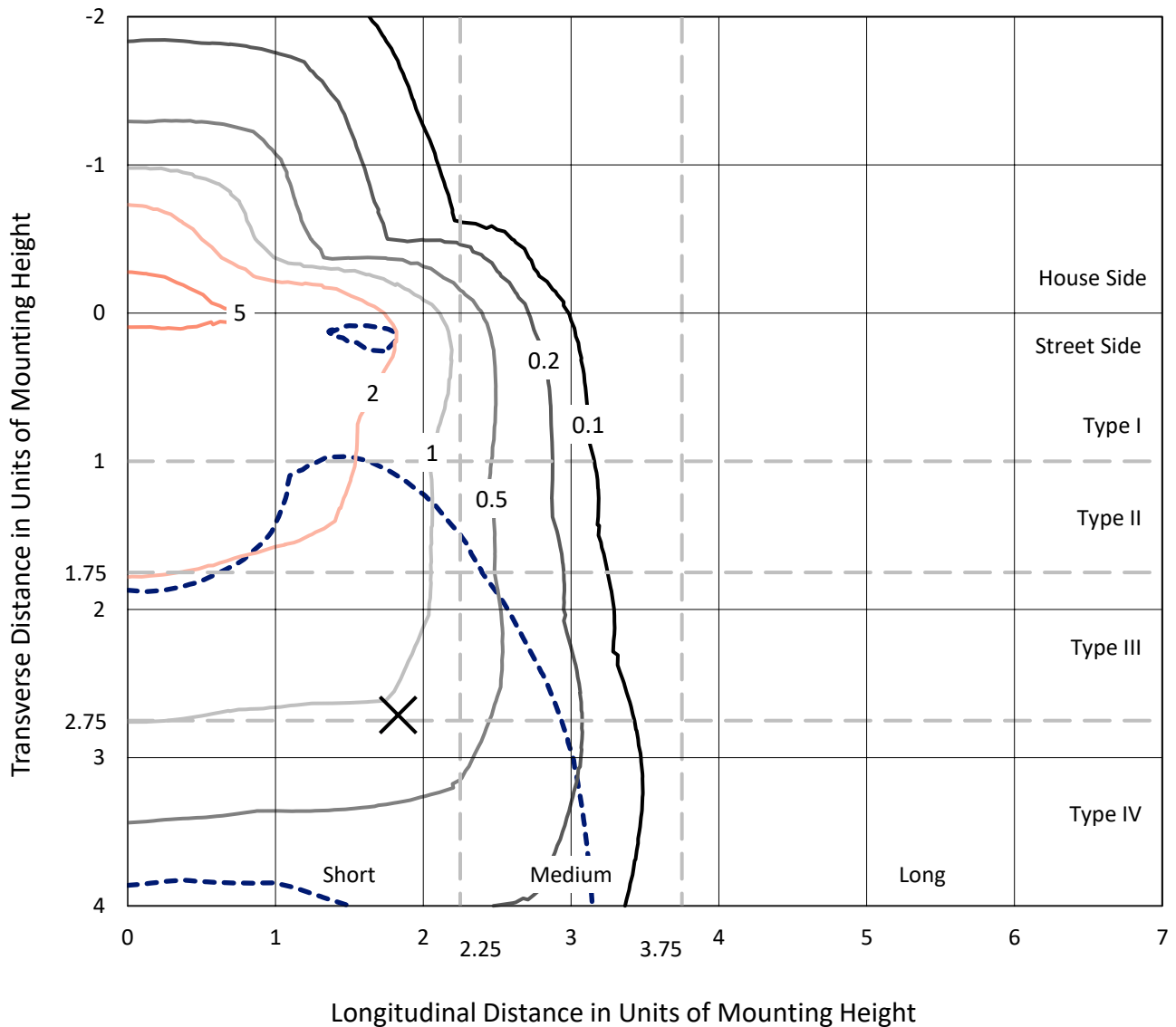
Lumens per Lamp: N/A
Luminaire Lumens: 39173.7 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

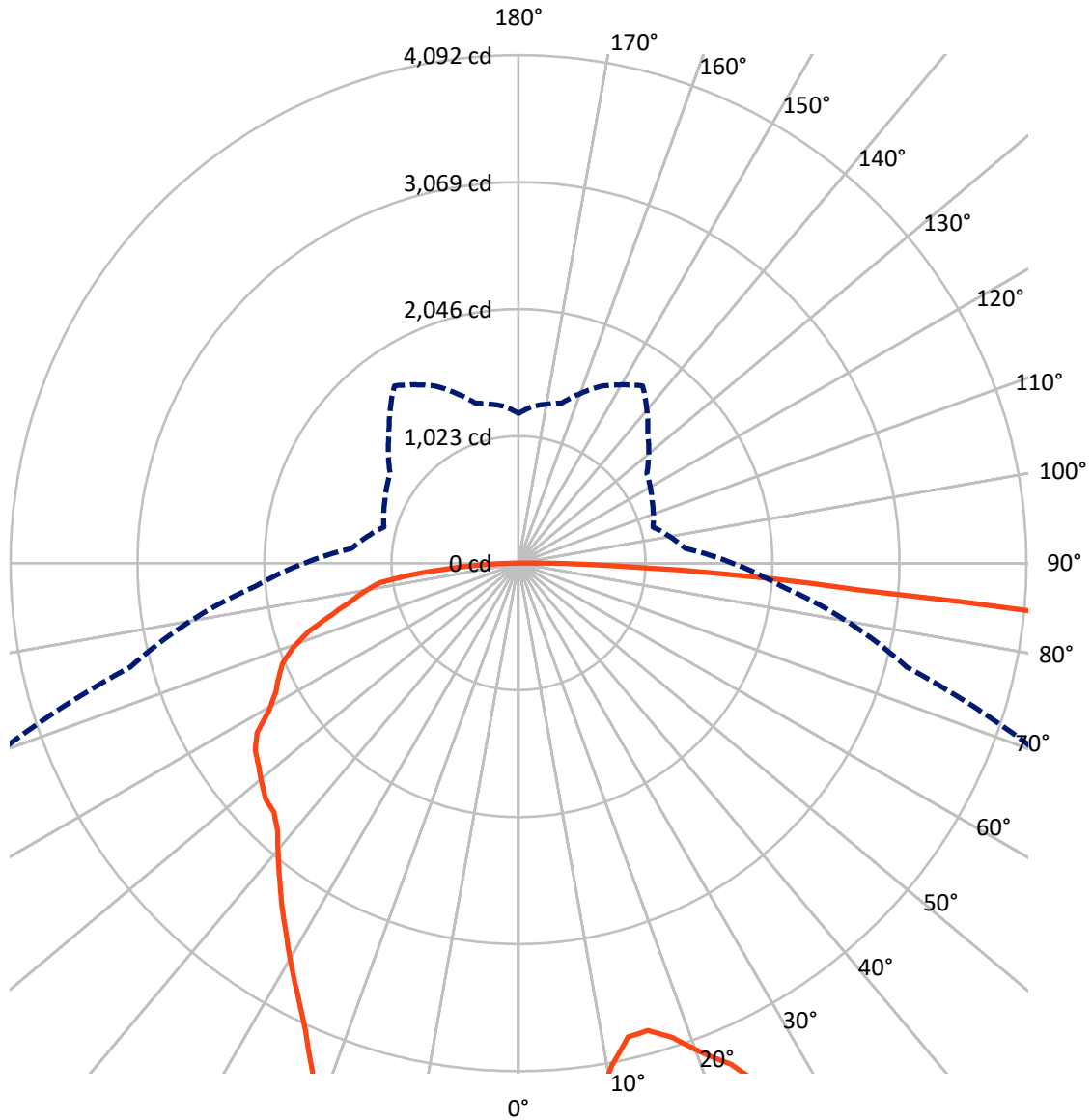
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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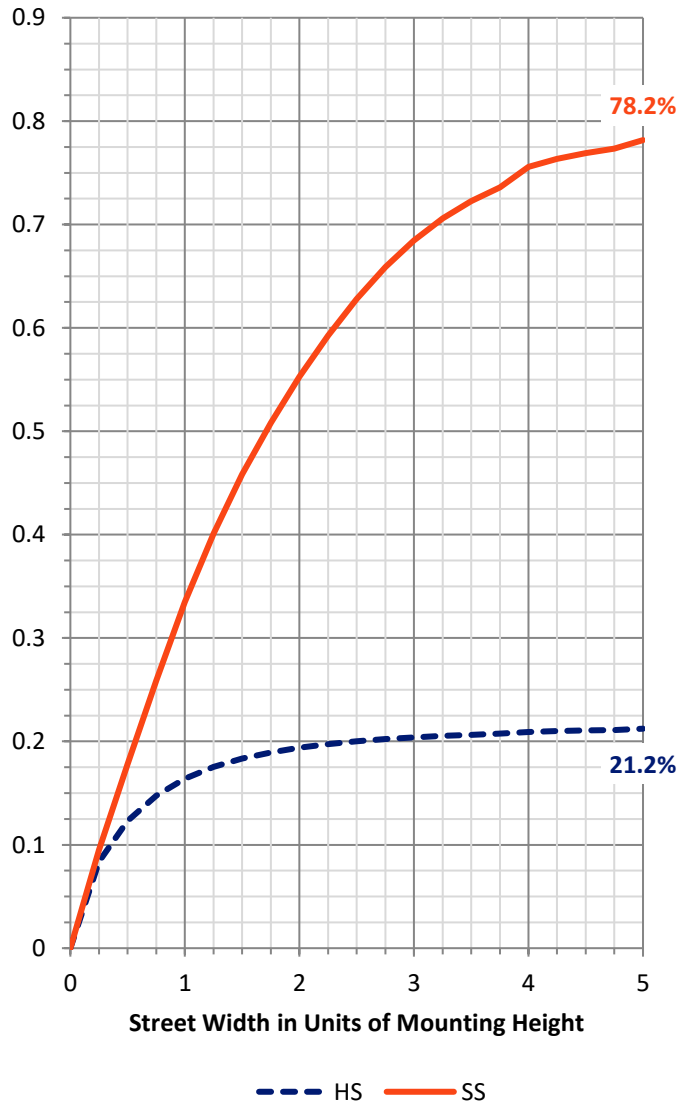
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8462.0	0.0	8462.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	30711.7	0.0	30711.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	39173.7	0.0	39173.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.3	1.3
10°-20°	1450.6	3.7
20°-30°	2387.5	6.1
30°-40°	3570.5	9.1
40°-50°	5293.2	13.5
50°-60°	7628.0	19.5
60°-70°	9734.3	24.8
70°-80°	7574.9	19.3
80°-90°	1016.2	2.6
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°	39173.7	100.0
0°-180°	39173.7	100.0

Coefficient of Utilization



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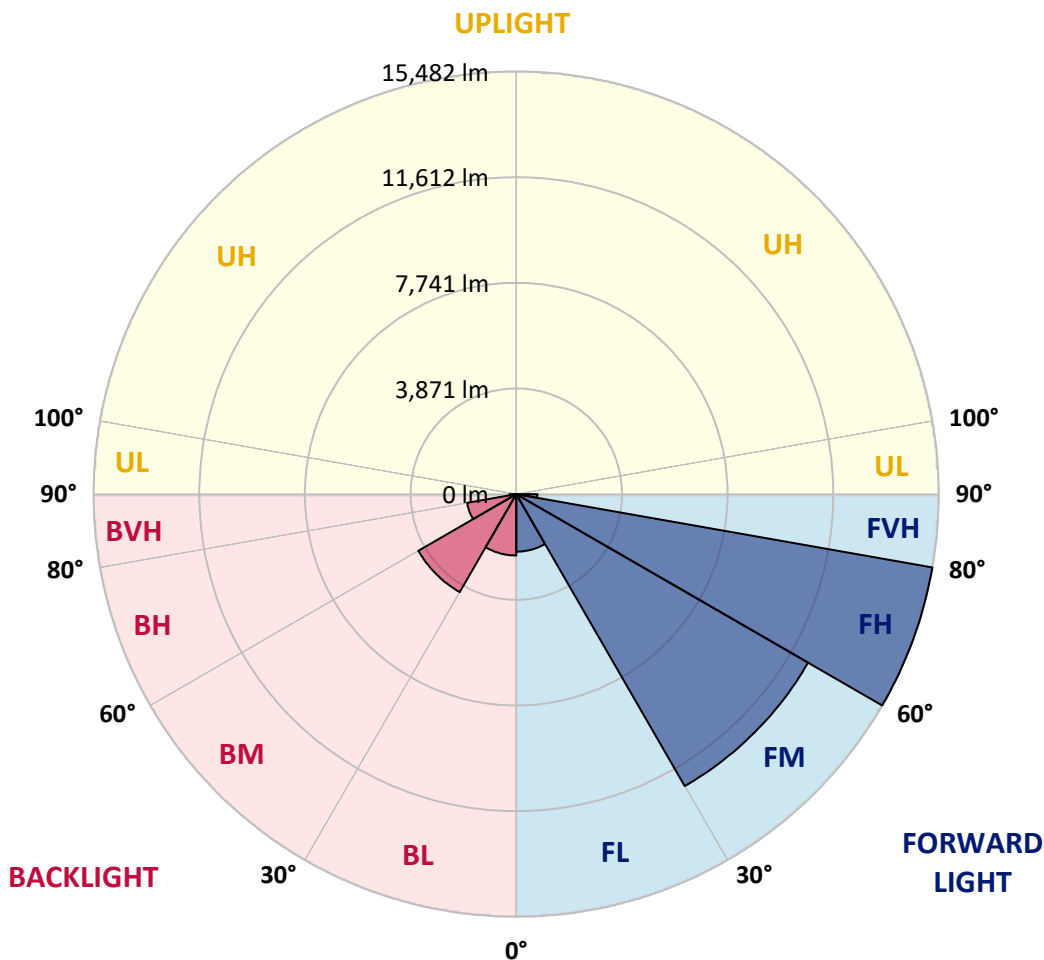
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2108.2	5.4			
FM	(30°-60°)	12347.8	31.5			
FH	(60°-80°)	15482.1	39.5			G5
FVH	(80°-90°)	773.5	2.0			G5
BL	(0°-30°)	2248.3	5.7	B3/2500		
BM	(30°-60°)	4143.9	10.6	B3/5000		
BH	(60°-80°)	1827.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	242.7	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5616.2	5616.2	5616.2	5616.2	5616.2	5616.2	5616.2	5616.2	5616.2	5616.2	5616.2
2.5°	5032.2	5048.7	5102.6	5115.0	5173.0	5139.9	5210.3	5334.5	5404.9	5508.5	5632.7
5°	4634.6	4564.2	4597.3	4725.7	4792.0	4808.5	4883.1	5094.3	5226.8	5380.1	5612.0
7.5°	4166.6	4154.1	4220.4	4303.2	4435.8	4448.2	4613.9	4800.2	5073.6	5413.2	5686.6
10°	3847.6	3901.5	3938.8	4025.7	4116.9	4116.9	4328.1	4651.1	4961.8	5289.0	5703.1
12.5°	3831.1	3797.9	3806.2	3851.8	3918.1	4000.9	4199.7	4489.6	4883.1	5264.1	5773.5
15°	3884.9	3897.3	3822.8	3880.8	3905.6	3934.6	4154.1	4481.3	4833.4	5351.1	5893.7
17.5°	4170.7	4100.3	3984.3	3930.5	4017.5	4017.5	4166.6	4423.3	4841.7	5396.6	6067.6
20°	4394.4	4394.4	4203.8	4145.9	4208.0	4195.6	4299.1	4489.6	4883.1	5487.8	6262.3
22.5°	4771.2	4825.1	4510.3	4390.2	4386.1	4419.2	4510.3	4671.8	4999.0	5616.2	6448.6
25°	5313.8	5326.2	4961.8	4837.5	4705.0	4758.8	4775.4	4936.9	5102.6	5765.3	6659.9
27.5°	5918.5	5910.2	5574.7	5264.1	5177.1	5189.6	5098.4	5206.1	5255.8	5810.8	6962.2
30°	6589.5	6514.9	6262.3	5823.2	5752.8	5674.1	5475.3	5471.2	5574.7	6067.6	7380.5
32.5°	7028.5	6933.2	6759.3	6444.5	6249.8	6258.1	5943.4	5939.2	5848.1	6349.2	7745.0
35°	7459.2	7314.3	7268.7	6945.6	6751.0	6771.7	6519.1	6485.9	6320.2	6775.8	8345.5
37.5°	7976.9	7848.5	7918.9	7674.6	7434.4	7335.0	7219.0	7177.6	6962.2	7376.4	9165.6
40°	8548.5	8507.1	8461.5	8341.4	8196.4	8204.7	8080.5	8039.1	7720.1	8101.2	9952.5
42.5°	9318.8	9161.5	8925.4	9004.1	9078.6	9157.3	9115.9	9008.2	8676.9	8838.4	10830.6
45°	10035.4	9828.3	9393.4	9418.2	9724.7	9786.9	10288.0	10275.6	9608.8	9774.4	11828.7
47.5°	10519.9	10424.7	10163.8	10134.8	10573.8	10569.6	11472.5	11472.5	10590.4	10706.3	12901.4
50°	11240.6	10992.1	10880.3	11025.2	11248.9	11402.1	12681.9	12760.6	11555.4	11679.6	14305.5
52.5°	12085.5	11774.9	11493.2	11866.0	12263.6	12363.0	13878.9	13845.7	12296.7	12810.3	15949.7
55°	12785.5	12628.1	12433.4	12648.8	13299.0	13423.3	15080.0	14773.5	13038.1	13746.3	16740.8
57.5°	13601.4	13696.6	13738.1	13684.2	14458.7	14653.4	16450.9	15572.8	13675.9	14375.9	17204.7
60°	14831.5	14889.4	14943.3	15071.7	15891.7	16165.1	17536.0	16575.1	14077.7	14740.3	17241.9
62.5°	16703.5	16479.9	16600.0	17043.1	17701.7	18012.3	19134.7	17279.2	14384.2	14959.9	16024.3
65°	18844.8	18542.4	18418.2	18989.7	20696.1	20447.6	21131.0	17805.2	13941.0	14139.8	13589.0
67.5°	21015.0	21048.2	20729.3	21876.5	23968.1	23968.1	22986.5	18057.9	12739.9	11460.1	9530.1
70°	22738.0	22841.5	23015.5	25239.6	28552.9	29054.1	25285.1	17022.4	10292.1	7629.0	5210.3
72.5°	22713.1	22402.5	23293.0	27389.1	32719.5	32301.2	25765.6	13460.6	6423.8	3735.8	2389.8
73°	22203.7	21942.8	22916.1	27368.4	32889.3	32495.9	25413.5	12408.6	5665.9	3238.8	2124.7
75°	18132.4	17660.3	19316.9	24788.1	30429.1	30731.5	21590.7	8092.9	3106.3	1996.3	1495.2
77.5°	8266.9	8473.9	10631.8	16629.0	23450.4	23806.5	14193.6	3499.7	1702.2	1399.9	1101.7
80°	2654.8	2787.4	4137.6	8266.9	14698.9	15340.9	6560.5	1590.4	1213.5	1072.7	824.2
82.5°	1014.7	1010.6	1735.4	3437.6	6966.4	7376.4	2398.1	969.2	902.9	791.1	584.0
85°	356.2	372.8	654.4	1358.5	2741.8	2870.2	832.5	538.4	625.4	530.1	335.5
87.5°	124.3	128.4	231.9	492.9	944.3	998.2	231.9	215.4	310.6	306.5	169.8
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°	5616.2	5616.2	5616.2	5616.2	5616.2	5616.2	5616.2	5616.2	5616.2	5616.2	5616.2
2.5°	5674.1	5711.4	5723.8	5872.9	5872.9	5872.9	5930.9	5930.9	5914.4	5872.9	5972.3
5°	5699.0	5765.3	5893.7	6022.0	6055.2	6084.2	6162.9	6096.6	6121.4	6080.0	6117.3
7.5°	5769.4	5860.5	6100.7	6179.4	6125.6	6187.7	6104.9	6059.3	6013.8	6030.3	5972.3
10°	5889.5	6005.5	6117.3	6262.3	6158.7	6096.6	5926.8	5885.4	5740.4	5690.7	5736.3
12.5°	6038.6	6179.4	6369.9	6316.1	6117.3	5939.2	5757.0	5583.0	5496.0	5371.8	5404.9
15°	6187.7	6349.2	6378.2	6287.1	6038.6	5815.0	5483.6	5239.3	5152.3	5040.5	5098.4
17.5°	6349.2	6502.5	6452.8	6216.7	5881.2	5541.6	5164.7	4924.5	4742.3	4671.8	4671.8
20°	6589.5	6664.0	6585.3	6100.7	5690.7	5243.4	4878.9	4605.6	4423.3	4394.4	4348.8
22.5°	6775.8	6895.9	6543.9	5930.9	5413.2	4854.1	4435.8	4332.2	4278.4	4232.8	4174.8
25°	7016.1	7011.9	6469.4	5773.5	4936.9	4390.2	4137.6	4129.3	4104.4	4087.9	4166.6
27.5°	7243.9	7148.6	6382.4	5384.2	4444.1	4038.2	3901.5	3992.6	4029.9	4005.0	4038.2
30°	7604.2	7446.8	6258.1	4970.1	4009.2	3682.0	3706.8	3831.1	3893.2	3930.5	3880.8
32.5°	7985.2	7745.0	6001.3	4539.3	3624.0	3458.3	3516.3	3644.7	3719.3	3760.7	3806.2
35°	8536.1	7976.9	5740.4	3976.0	3346.5	3321.7	3354.8	3425.2	3532.9	3561.9	3574.3
37.5°	9215.3	8329.0	5388.4	3524.6	3131.1	3160.1	3193.3	3218.1	3222.3	3276.1	3255.4
40°	9894.5	8627.2	4874.8	3093.9	2907.5	3064.9	3048.3	3002.7	2965.5	2915.8	2903.3
42.5°	10491.0	8888.1	4303.2	2729.4	2708.7	2965.5	2911.6	2795.7	2708.7	2671.4	2609.3
45°	11161.9	9256.7	3727.5	2501.6	2555.4	2845.4	2828.8	2650.7	2538.9	2406.3	2389.8
47.5°	12031.7	9641.9	3176.7	2265.5	2410.5	2799.8	2808.1	2580.3	2418.8	2240.7	2215.8
50°	13145.8	10196.9	2758.4	2166.1	2323.5	2733.5	2746.0	2485.0	2273.8	2091.6	2075.0
52.5°	14214.3	10764.3	2410.5	2012.9	2265.5	2654.8	2683.8	2398.1	2153.7	1925.9	1938.3
55°	14752.8	10557.2	2112.3	1901.0	2133.0	2526.4	2634.1	2335.9	1971.5	1814.1	1809.9
57.5°	14872.9	10047.8	1876.2	1785.1	2021.2	2389.8	2551.3	2149.5	1888.6	1756.1	1739.5
60°	14479.4	9157.3	1689.8	1660.8	1880.3	2248.9	2360.8	2050.1	1805.8	1698.1	1673.3
62.5°	13510.3	8233.7	1561.4	1602.8	1760.2	2095.7	2240.7	1979.7	1727.1	1652.5	1598.7
65°	11079.1	6771.7	1457.9	1491.0	1636.0	1946.6	2166.1	1901.0	1656.7	1586.3	1582.1
67.5°	7674.6	4667.7	1375.0	1437.2	1536.6	1838.9	2091.6	1814.1	1565.6	1540.7	1507.6
70°	3930.5	2489.2	1267.4	1317.1	1428.9	1702.2	1959.0	1723.0	1470.3	1466.2	1424.7
72.5°	1992.2	1457.9	1143.1	1217.7	1296.4	1524.1	1793.4	1602.8	1350.2	1304.6	1238.4
73°	1723.0	1350.2	1122.4	1188.7	1263.2	1474.4	1743.7	1573.8	1333.6	1267.4	1205.2
75°	1254.9	1064.4	1006.4	1072.7	1130.7	1329.5	1578.0	1441.3	1225.9	1155.5	1097.6
77.5°	940.2	820.1	836.6	911.2	960.9	1147.3	1404.0	1304.6	1110.0	1014.7	989.9
80°	691.7	625.4	691.7	762.1	799.4	1010.6	1279.8	1130.7	936.0	828.3	807.6
82.5°	492.9	455.6	534.3	579.8	596.4	836.6	1151.4	902.9	708.2	567.4	521.9
85°	281.6	277.5	360.3	356.2	368.6	488.7	757.9	600.5	455.6	347.9	339.6
87.5°	124.3	136.7	182.2	145.0	153.2	231.9	323.1	223.7	186.4	103.5	78.7
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)