

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: P480786

Luminaire Tested: **IFLD-S-SA6C-727-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480786  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-727-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

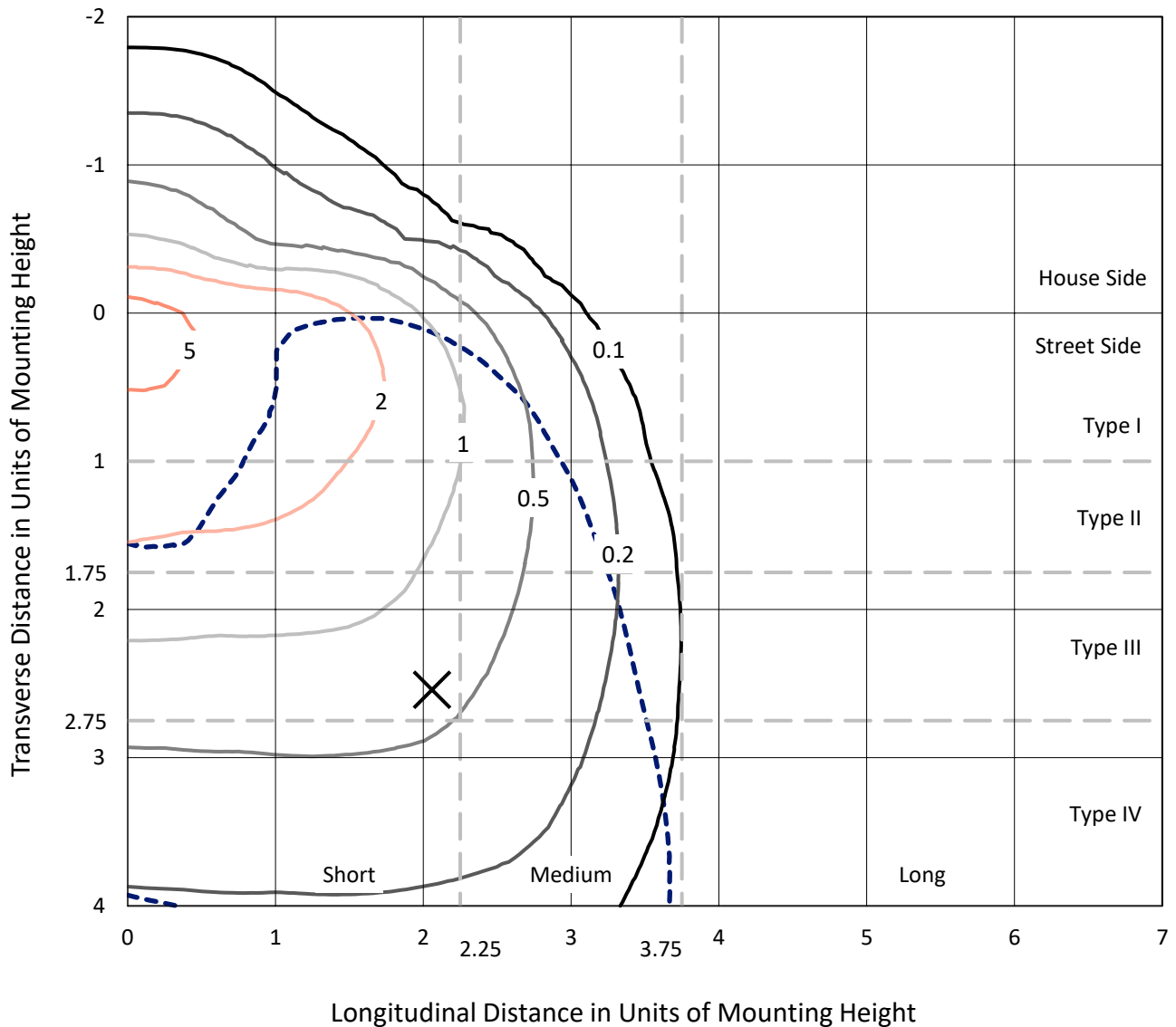
Lumens per Lamp: N/A  
Luminaire Lumens: 33612.8 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5  
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

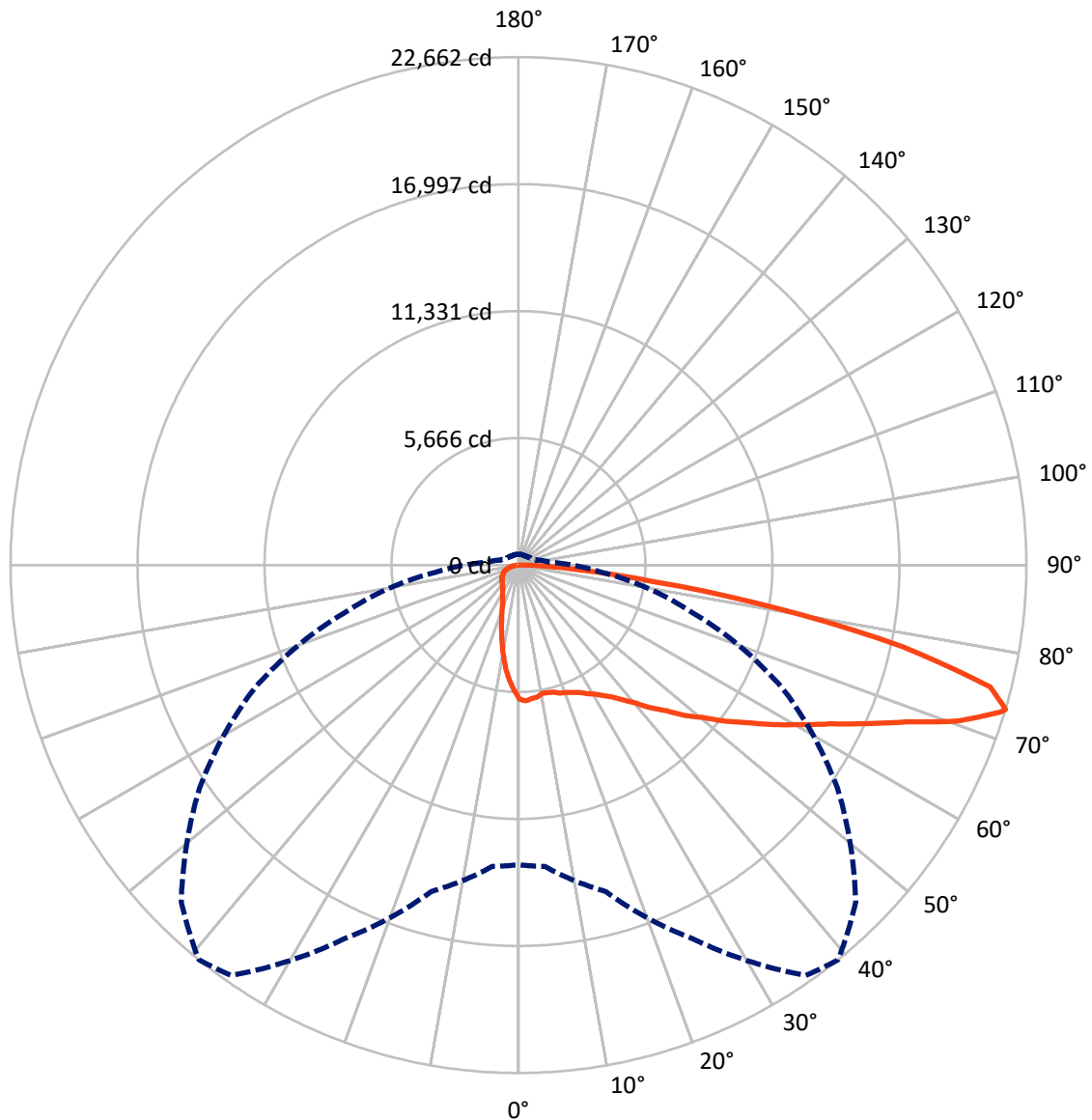
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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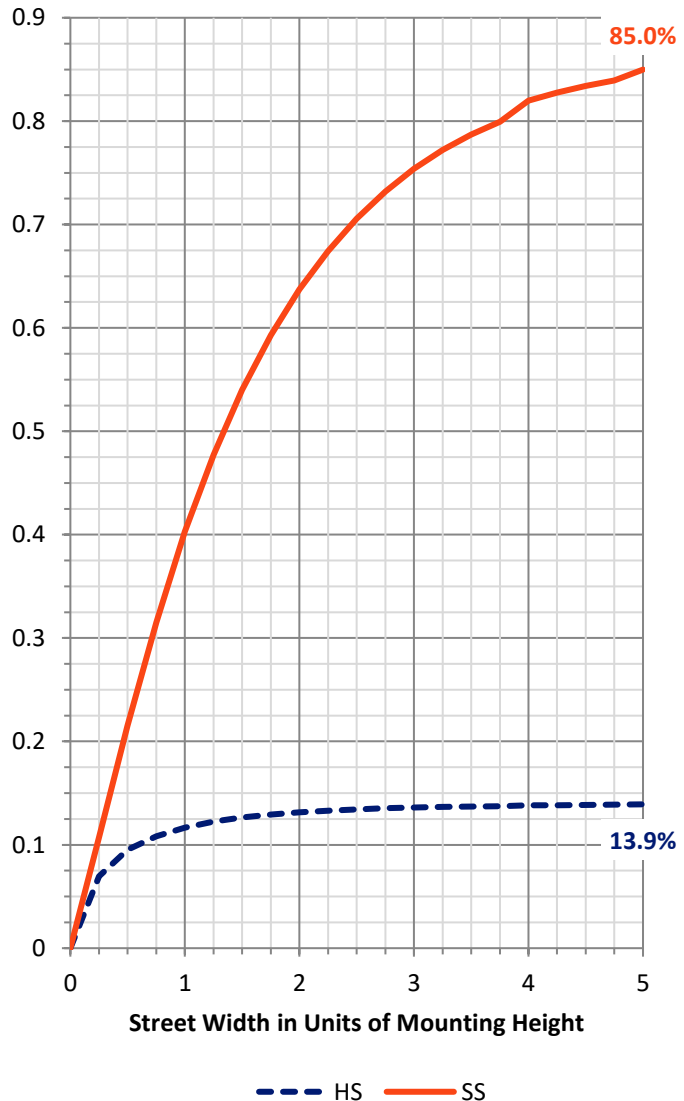
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4725.0	0.0	4725.0
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	28887.8	0.0	28887.8
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	33612.8	0.0	33612.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.4	1.5
10°-20°	1320.4	3.9
20°-30°	2017.7	6.0
30°-40°	2941.8	8.8
40°-50°	4445.4	13.2
50°-60°	6437.2	19.2
60°-70°	8178.8	24.3
70°-80°	6630.2	19.7
80°-90°	1121.8	3.3
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°	33612.8	100.0
0°-180°	33612.8	100.0

**Coefficient of Utilization**



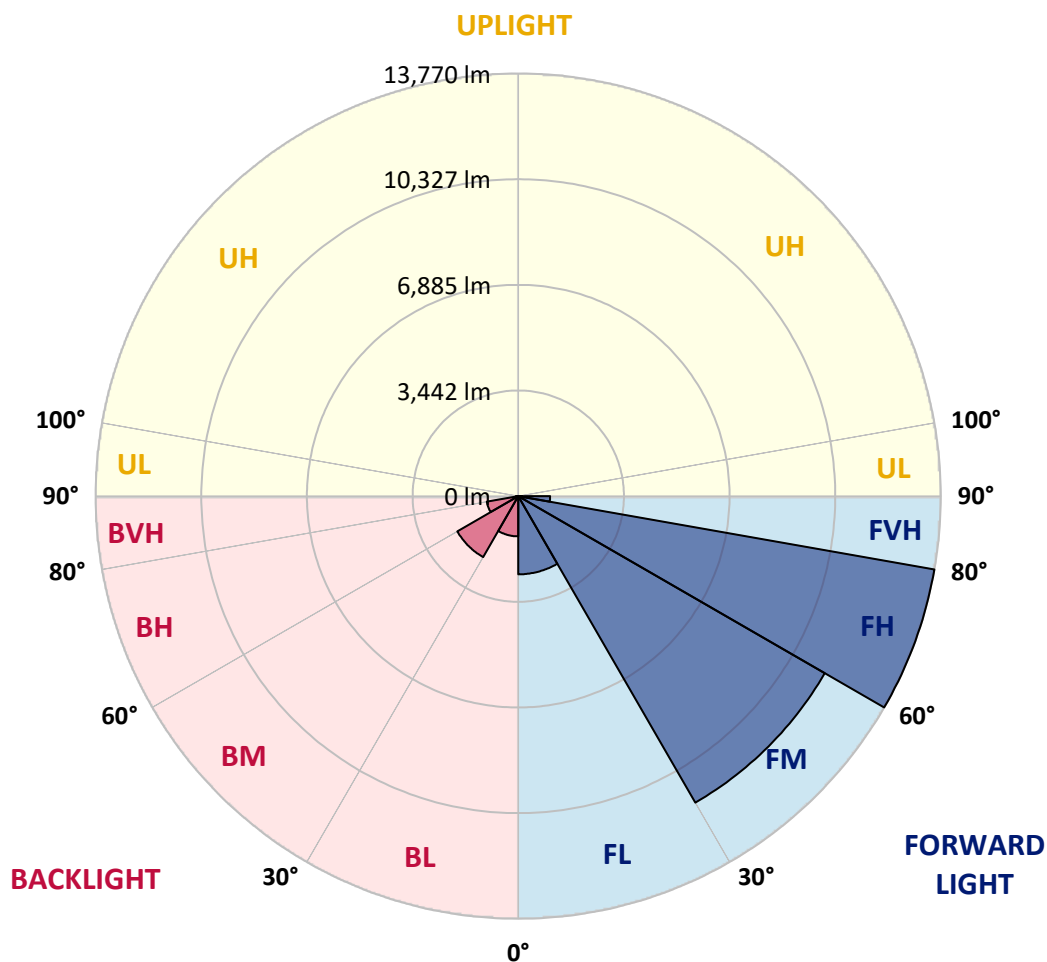
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2547.1	7.6			
FM (30°-60°)	11531.3	34.3			
FH (60°-80°)	13769.8	41.0			G5
FVH (80°-90°)	1039.5	3.1			G5
BL (0°-30°)	1310.3	3.9	B3/2500		
BM (30°-60°)	2293.2	6.8	B2/2500		
BH (60°-80°)	1039.2	3.1	B3/2500		G3/2500
BVH (80°-90°)	82.3	0.2			G1/100
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°	35°	39°	45°	55°	65°	75°	85°
0°	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3
2.5°	6126.2	6062.3	6073.5	6051.0	6073.5	6066.0	6054.7	5998.3	6054.7	5998.3	5983.3
5°	6043.4	6043.4	6081.1	6024.6	6032.2	5994.6	6032.2	5990.8	5953.2	5859.2	5832.8
7.5°	6017.1	6013.4	6017.1	5938.1	5975.8	5953.2	5915.6	5870.5	5795.2	5735.1	5648.6
10°	5836.6	5874.2	5832.8	5855.4	5885.5	5817.8	5814.0	5802.8	5768.9	5689.9	5637.3
12.5°	5738.8	5802.8	5825.3	5806.5	5832.8	5840.4	5817.8	5802.8	5761.4	5708.7	5558.3
15°	5780.2	5705.0	5768.9	5893.0	5866.7	5885.5	5889.3	5874.2	5855.4	5757.6	5659.9
17.5°	5791.5	5746.4	5881.7	5908.1	5941.9	6009.6	5964.5	5960.7	5889.3	5821.6	5678.7
20°	5817.8	5799.0	5908.1	6047.2	6051.0	6062.3	6084.8	6028.4	5990.8	5874.2	5656.1
22.5°	5915.6	5979.5	6081.1	6141.2	6175.1	6182.6	6182.6	6069.8	6028.4	5934.4	5761.4
25°	6208.9	6141.2	6284.1	6355.6	6306.7	6295.4	6269.1	6167.6	6122.4	6039.7	5810.3
27.5°	6423.3	6419.5	6502.3	6600.0	6468.4	6494.7	6400.7	6370.6	6269.1	6224.0	5896.8
30°	6716.6	6799.4	6795.6	6825.7	6652.7	6682.8	6562.4	6506.0	6449.6	6475.9	6152.5
32.5°	7092.7	7062.6	7111.5	7088.9	6915.9	6942.3	6799.4	6712.9	6731.7	6810.6	6502.3
35°	7333.4	7303.3	7322.1	7322.1	7269.4	7239.4	7179.2	7066.4	7156.6	7303.3	6893.4
37.5°	7592.9	7630.5	7739.5	7717.0	7649.3	7649.3	7641.7	7562.8	7679.4	8040.4	7517.6
40°	7822.3	7923.8	7991.5	8036.6	8115.6	8115.6	8179.5	8134.4	8345.0	8924.1	8281.1
42.5°	8062.9	8066.7	8435.3	8469.1	8645.9	8721.1	8770.0	8807.6	9202.4	9849.3	9097.1
45°	8371.3	8390.1	8713.5	8973.0	9247.6	9273.9	9458.2	9582.3	10067.4	10860.9	9984.7
47.5°	8777.5	8754.9	9100.9	9514.6	9856.8	10037.3	10259.2	10394.6	10992.5	11959.0	10954.9
50°	9311.5	9243.8	9443.1	10093.7	10496.1	10695.4	11090.3	11316.0	12015.4	13008.3	11620.6
52.5°	9962.1	9849.3	10007.2	10718.0	11169.3	11571.7	11947.8	12199.7	12929.3	13820.6	12113.2
55°	10650.3	10417.1	10462.3	11379.9	12030.5	12410.3	12925.5	13188.8	13933.4	14550.2	12605.9
57.5°	11331.0	11184.3	11094.1	12015.4	13057.2	13421.9	13895.8	14238.0	14869.8	15197.0	13023.3
60°	11902.6	11865.0	11718.3	13000.7	14144.0	14456.1	14952.6	15163.2	15640.8	15795.0	13030.8
62.5°	12372.7	12244.8	12478.0	13794.3	15249.6	15603.2	16148.5	16167.3	16505.7	16167.3	12647.2
65°	12741.3	12748.8	13121.1	14753.2	16528.3	17051.0	17491.0	17442.1	17224.0	15945.4	11740.9
67.5°	13076.0	13218.9	13764.2	15806.2	18171.7	18664.4	19153.3	18506.4	17419.6	14907.4	9969.6
70°	13339.2	13482.1	14632.9	17088.6	20108.5	20830.5	20939.6	18927.6	16520.8	12628.4	7521.4
72.5°	13309.1	13568.6	15125.5	18111.5	21827.1	22451.4	21571.4	17743.0	13764.2	8803.8	4388.7
73°	13373.1	13500.9	15084.2	18397.4	22349.9	22662.0	21278.1	17370.7	12981.9	7897.5	3711.8
75°	12139.5	12572.0	14335.8	17931.0	21789.5	21733.1	19593.3	14474.9	9228.8	4148.1	1797.6
77.5°	8980.6	9255.1	11297.2	14745.7	17885.9	17524.9	14779.6	9251.3	4381.2	1538.1	970.3
80°	4388.7	4603.1	5987.0	8514.2	11695.8	11725.9	9172.4	4813.7	1876.6	868.7	661.9
82.5°	2192.5	2320.4	2876.9	3741.9	5753.9	6028.4	4652.0	2737.8	1162.1	492.7	376.1
85°	1432.8	1523.1	1771.3	1831.5	2440.7	2576.1	2166.2	2136.1	755.9	267.0	304.6
87.5°	951.5	966.5	1086.8	925.1	977.8	940.2	1045.5	1346.3	221.9	112.8	82.7
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°	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3	5983.3
2.5°	5964.5	5911.8	5855.4	5776.4	5720.0	5633.5	5554.6	5520.7	5513.2	5517.0	5479.3
5°	5810.3	5735.1	5622.3	5460.5	5366.5	5223.6	5103.3	5039.3	4971.6	4982.9	4952.8
7.5°	5595.9	5513.2	5340.2	5152.2	4919.0	4715.9	4603.1	4445.2	4354.9	4287.2	4324.8
10°	5528.2	5385.3	5125.8	4866.3	4505.3	4238.3	3978.8	3798.3	3674.2	3553.9	3606.5
12.5°	5494.4	5351.5	4990.5	4606.9	4140.5	3734.4	3369.6	3147.7	2971.0	2865.7	2907.0
15°	5464.3	5287.5	4862.6	4321.0	3798.3	3264.3	2854.4	2561.0	2391.8	2290.3	2301.5
17.5°	5505.7	5253.7	4674.6	4042.8	3422.2	2850.6	2395.6	2091.0	1918.0	1854.0	1839.0
20°	5464.3	5216.1	4490.3	3764.5	3046.2	2455.7	2019.5	1767.5	1647.2	1594.5	1583.3
22.5°	5479.3	5125.8	4298.5	3456.1	2696.4	2124.8	1767.5	1575.7	1481.7	1455.4	1462.9
25°	5550.8	5073.2	4106.7	3117.6	2350.4	1880.4	1605.8	1459.2	1391.5	1365.1	1372.7
27.5°	5603.4	5118.3	3933.7	2798.0	2057.1	1662.2	1470.4	1372.7	1327.5	1308.7	1305.0
30°	5735.1	5144.6	3764.5	2512.1	1816.4	1519.3	1376.4	1297.4	1267.4	1256.1	1252.3
32.5°	5930.6	5193.5	3568.9	2248.9	1639.7	1383.9	1301.2	1233.5	1226.0	1214.7	1218.5
35°	6250.3	5362.8	3350.8	2023.3	1470.4	1293.7	1222.2	1177.1	1177.1	1177.1	1188.4
37.5°	6709.1	5599.7	3155.2	1808.9	1361.4	1214.7	1154.5	1139.5	1132.0	1143.3	1150.8
40°	7299.5	5885.5	2997.3	1639.7	1267.4	1162.1	1109.4	1101.9	1098.1	1094.4	1101.9
42.5°	7946.4	6250.3	2861.9	1508.0	1199.7	1105.6	1068.0	1060.5	1045.5	1053.0	1064.3
45°	8589.4	6701.6	2741.6	1402.7	1154.5	1075.6	1022.9	1019.2	1011.6	1007.9	1026.7
47.5°	9304.0	7145.3	2703.9	1338.8	1120.7	1030.4	992.8	989.1	966.5	962.7	977.8
50°	9860.6	7472.5	2745.3	1308.7	1071.8	996.6	970.3	951.5	932.7	913.9	913.9
52.5°	10244.2	7698.2	2775.4	1286.2	1045.5	951.5	917.6	910.1	891.3	872.5	865.0
55°	10590.1	7833.5	2782.9	1289.9	1019.2	898.8	876.2	872.5	861.2	831.1	823.6
57.5°	10706.7	7777.1	2632.5	1256.1	1004.1	865.0	834.9	842.4	827.4	801.0	797.3
60°	10695.4	7386.0	2290.3	1210.9	970.3	827.4	789.7	812.3	812.3	782.2	778.5
62.5°	10044.8	6483.5	1872.8	1124.5	932.7	789.7	748.4	782.2	793.5	774.7	770.9
65°	8694.7	5280.0	1564.5	1038.0	876.2	748.4	707.0	744.6	763.4	755.9	752.1
67.5°	7194.2	4039.0	1301.2	925.1	804.8	692.0	658.1	684.4	695.7	699.5	703.3
70°	5084.5	2688.9	1086.8	801.0	707.0	631.8	594.2	598.0	594.2	605.5	605.5
72.5°	2764.1	1549.4	883.8	680.7	609.2	549.1	522.7	503.9	503.9	500.2	500.2
73°	2365.5	1391.5	842.4	661.9	582.9	534.0	503.9	488.9	488.9	485.1	481.4
75°	1327.5	1019.2	722.1	567.9	503.9	466.3	443.8	421.2	417.4	417.4	417.4
77.5°	872.5	793.5	575.4	455.0	406.2	372.3	364.8	342.2	342.2	342.2	338.5
80°	654.4	624.3	443.8	346.0	312.1	285.8	278.3	263.2	259.5	244.4	248.2
82.5°	436.2	492.7	323.4	244.4	210.6	195.6	195.6	191.8	180.5	161.7	161.7
85°	346.0	402.4	233.2	150.4	124.1	105.3	109.1	105.3	101.5	82.7	79.0
87.5°	63.9	161.7	67.7	41.4	30.1	18.8	18.8	11.3	7.5	0.0	0.0
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)