

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: P480767

Luminaire Tested: **IFLD-S-SA2D-727-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480767  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-727-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

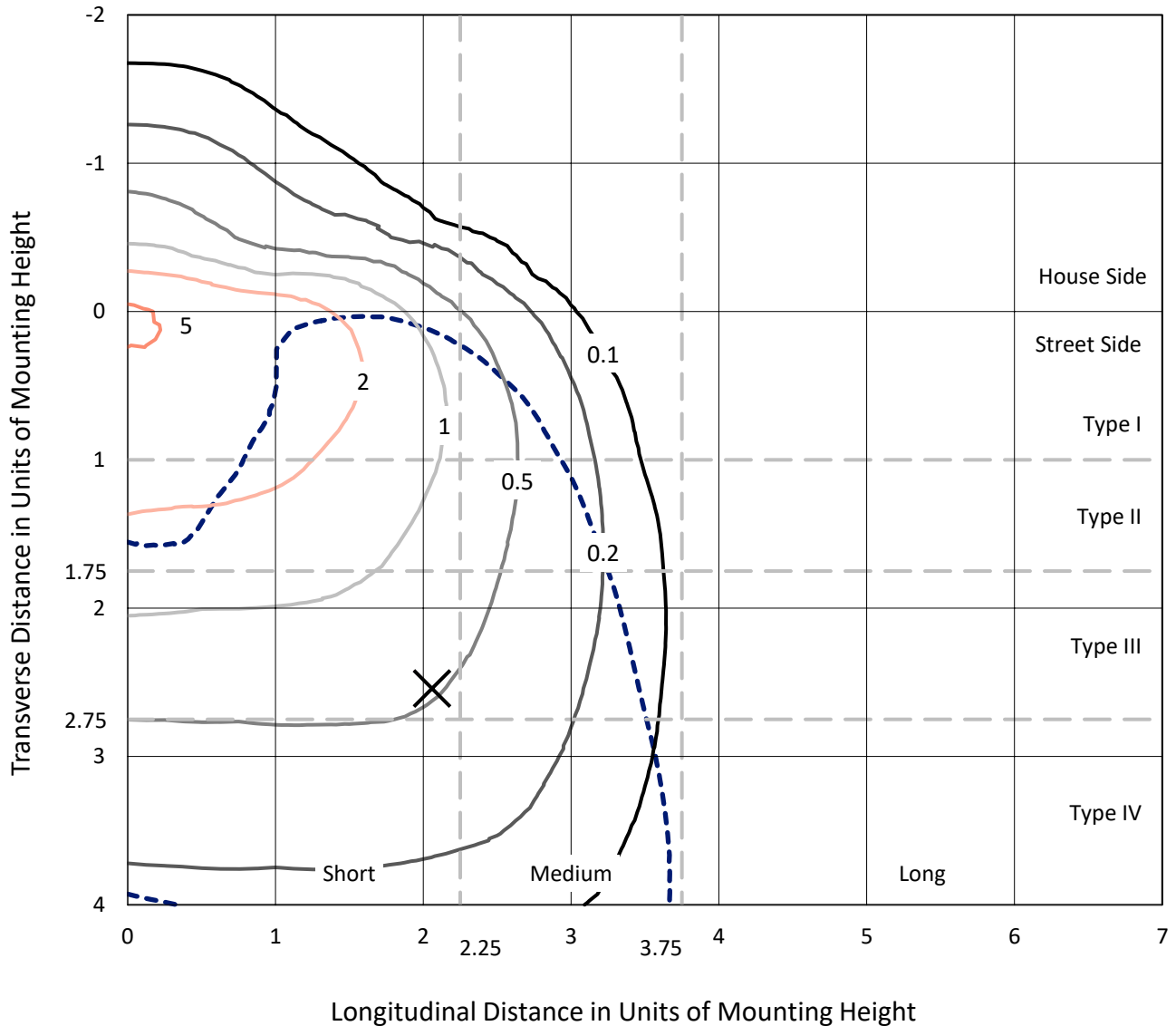
Lumens per Lamp: N/A  
Luminaire Lumens: 12651.4 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 123.9  
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

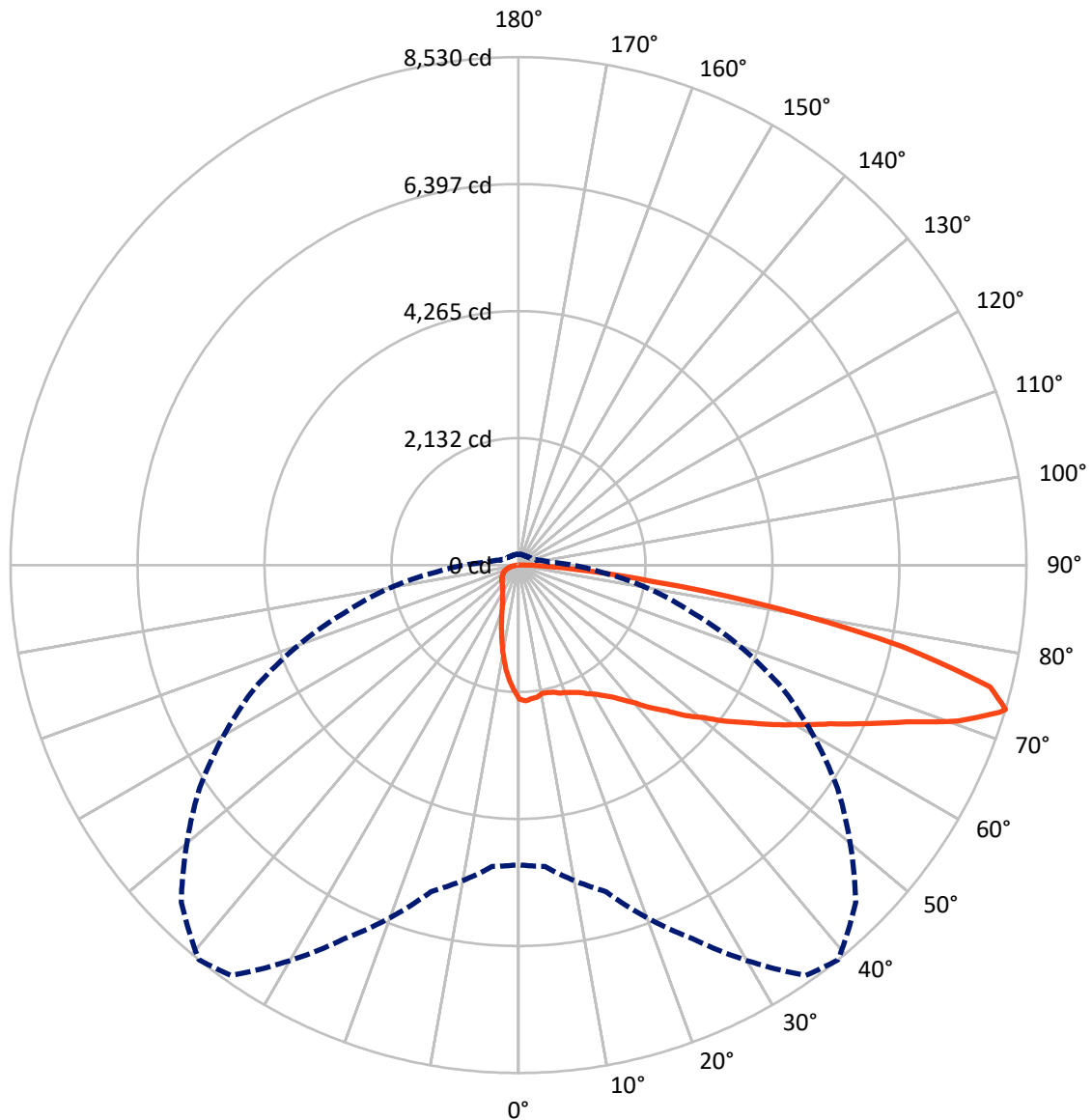
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 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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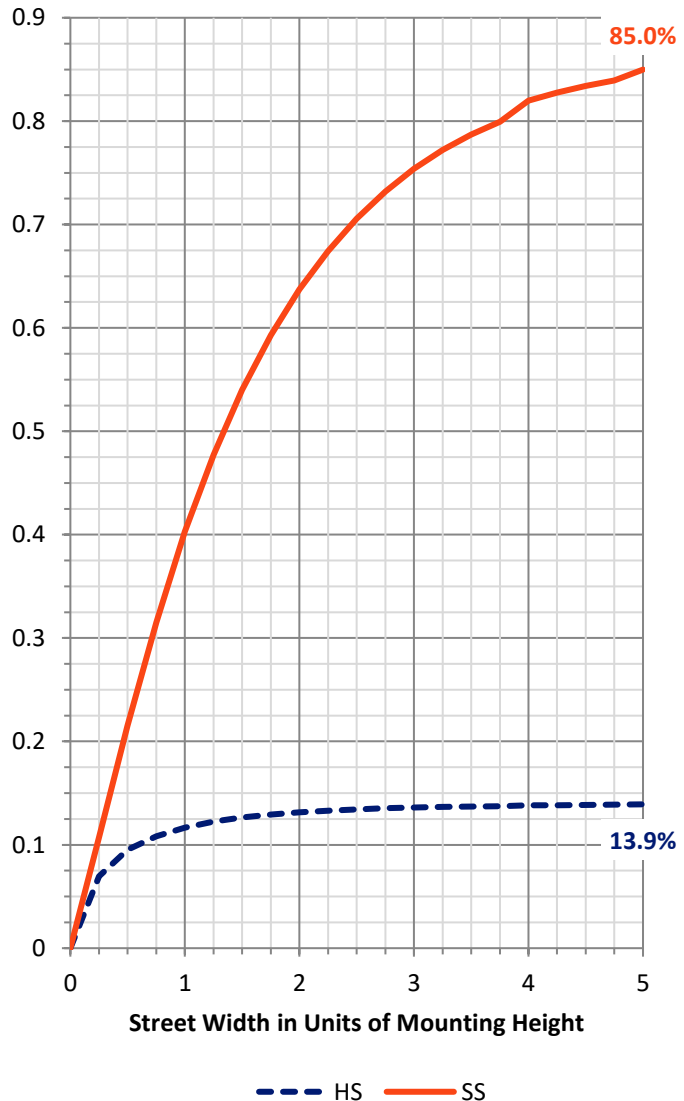
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1778.4	0.0	1778.4
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	10872.9	0.0	10872.9
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	12651.4	0.0	12651.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.5	1.5
10°-20°	497.0	3.9
20°-30°	759.4	6.0
30°-40°	1107.3	8.8
40°-50°	1673.2	13.2
50°-60°	2422.9	19.2
60°-70°	3078.4	24.3
70°-80°	2495.5	19.7
80°-90°	422.2	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°	12651.4	100.0
0°-180°	12651.4	100.0

**Coefficient of Utilization**

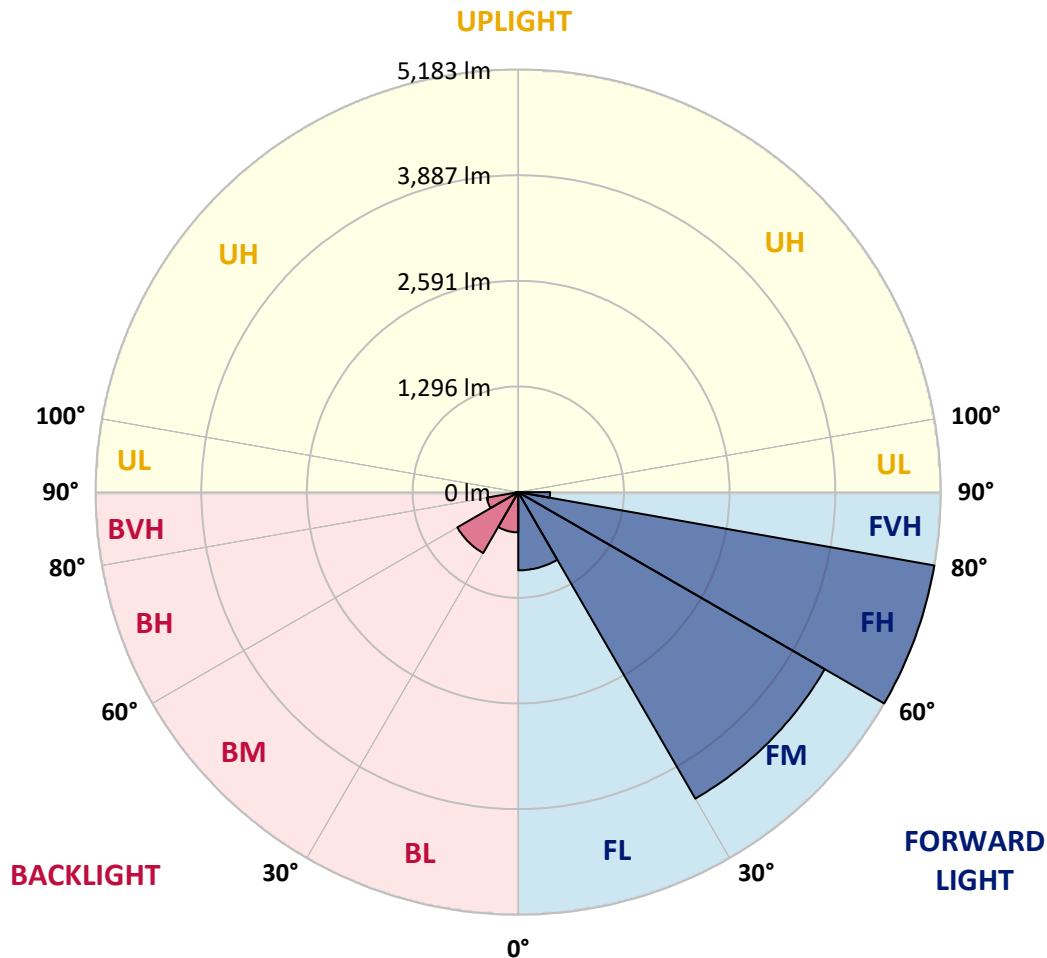


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	958.7	7.6			
FM (30°-60°)	4340.2	34.3			
FH (60°-80°)	5182.8	41.0			G3/7500
FVH (80°-90°)	391.2	3.1			G3/500
BL (0°-30°)	493.2	3.9	B1/500		
BM (30°-60°)	863.1	6.8	B1/1000		
BH (60°-80°)	391.1	3.1	B1/500		G1/500
BVH (80°-90°)	31.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0
2.5°	2305.8	2281.7	2286.0	2277.5	2286.0	2283.2	2278.9	2257.7	2278.9	2257.7	2252.0
5°	2274.7	2274.7	2288.8	2267.6	2270.4	2256.3	2270.4	2254.9	2240.7	2205.3	2195.4
7.5°	2264.8	2263.3	2264.8	2235.0	2249.2	2240.7	2226.5	2209.6	2181.2	2158.6	2126.0
10°	2196.8	2211.0	2195.4	2203.9	2215.2	2189.7	2188.3	2184.1	2171.3	2141.6	2121.8
12.5°	2160.0	2184.1	2192.6	2185.5	2195.4	2198.2	2189.7	2184.1	2168.5	2148.7	2092.1
15°	2175.6	2147.3	2171.3	2218.1	2208.1	2215.2	2216.6	2211.0	2203.9	2167.1	2130.3
17.5°	2179.8	2162.8	2213.8	2223.7	2236.5	2261.9	2244.9	2243.5	2216.6	2191.2	2137.4
20°	2189.7	2182.7	2223.7	2276.1	2277.5	2281.7	2290.2	2269.0	2254.9	2211.0	2128.9
22.5°	2226.5	2250.6	2288.8	2311.5	2324.2	2327.0	2327.0	2284.6	2269.0	2233.6	2168.5
25°	2337.0	2311.5	2365.3	2392.2	2373.8	2369.5	2359.6	2321.4	2304.4	2273.3	2186.9
27.5°	2417.6	2416.2	2447.4	2484.2	2434.6	2444.5	2409.1	2397.8	2359.6	2342.6	2219.5
30°	2528.0	2559.2	2557.8	2569.1	2504.0	2515.3	2470.0	2448.8	2427.5	2437.4	2315.7
32.5°	2669.6	2658.3	2676.7	2668.2	2603.1	2613.0	2559.2	2526.6	2533.7	2563.4	2447.4
35°	2760.2	2748.9	2755.9	2755.9	2736.1	2724.8	2702.1	2659.7	2693.7	2748.9	2594.6
37.5°	2857.8	2872.0	2913.0	2904.6	2879.1	2879.1	2876.2	2846.5	2890.4	3026.3	2829.5
40°	2944.2	2982.4	3007.9	3024.9	3054.6	3054.6	3078.7	3061.7	3140.9	3358.9	3116.9
42.5°	3034.8	3036.2	3174.9	3187.7	3254.2	3282.5	3300.9	3315.0	3463.7	3707.1	3424.0
45°	3150.8	3157.9	3279.7	3377.3	3480.7	3490.6	3559.9	3606.6	3789.2	4087.9	3758.1
47.5°	3303.7	3295.2	3425.5	3581.2	3710.0	3777.9	3861.4	3912.4	4137.4	4501.2	4123.3
50°	3504.7	3479.2	3554.3	3799.1	3950.6	4025.6	4174.2	4259.2	4522.4	4896.1	4373.8
52.5°	3749.6	3707.1	3766.6	4034.1	4204.0	4355.4	4497.0	4591.8	4866.4	5201.9	4559.2
55°	4008.6	3920.9	3937.9	4283.2	4528.1	4671.1	4865.0	4964.1	5244.3	5476.5	4744.7
57.5°	4264.8	4209.6	4175.7	4522.4	4914.5	5051.8	5230.2	5359.0	5596.8	5719.9	4901.8
60°	4480.0	4465.8	4410.6	4893.3	5323.6	5441.1	5627.9	5707.2	5887.0	5945.0	4904.6
62.5°	4656.9	4608.8	4696.5	5192.0	5739.8	5872.8	6078.1	6085.1	6212.5	6085.1	4760.2
65°	4795.6	4798.5	4938.6	5552.9	6221.0	6417.8	6583.4	6565.0	6482.9	6001.6	4419.1
67.5°	4921.6	4975.4	5180.6	5949.2	6839.6	7025.0	7209.0	6965.6	6556.5	5610.9	3752.4
70°	5020.7	5074.5	5507.6	6431.9	7568.5	7840.3	7881.4	7124.1	6218.2	4753.2	2831.0
72.5°	5009.4	5107.0	5693.0	6816.9	8215.4	8450.4	8119.2	6678.2	5180.6	3313.6	1651.9
73°	5033.4	5081.6	5677.5	6924.5	8412.2	8529.7	8008.8	6538.1	4886.2	2972.5	1397.1
75°	4569.2	4731.9	5395.8	6749.0	8201.3	8180.0	7374.6	5448.2	3473.6	1561.3	676.6
77.5°	3380.2	3483.5	4252.1	5550.1	6732.0	6596.1	5562.8	3482.1	1649.0	578.9	365.2
80°	1651.9	1732.5	2253.4	3204.6	4402.1	4413.5	3452.3	1811.8	706.3	327.0	249.1
82.5°	825.2	873.3	1082.8	1408.4	2165.7	2269.0	1750.9	1030.5	437.4	185.4	141.5
85°	539.3	573.3	666.7	689.3	918.6	969.6	815.3	804.0	284.5	100.5	114.7
87.5°	358.1	363.8	409.1	348.2	368.0	353.9	393.5	506.7	83.5	42.5	31.1
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°	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0	2252.0
2.5°	2244.9	2225.1	2203.9	2174.2	2152.9	2120.4	2090.7	2077.9	2075.1	2076.5	2062.3
5°	2186.9	2158.6	2116.1	2055.3	2019.9	1966.1	1920.8	1896.7	1871.3	1875.5	1864.2
7.5°	2106.2	2075.1	2010.0	1939.2	1851.4	1775.0	1732.5	1673.1	1639.1	1613.6	1627.8
10°	2080.7	2027.0	1929.3	1831.6	1695.7	1595.2	1497.6	1429.6	1382.9	1337.6	1357.4
12.5°	2068.0	2014.2	1878.3	1734.0	1558.4	1405.6	1268.3	1184.8	1118.2	1078.6	1094.2
15°	2056.7	1990.2	1830.2	1626.4	1429.6	1228.6	1074.3	963.9	900.2	862.0	866.3
17.5°	2072.3	1977.4	1759.4	1521.6	1288.1	1072.9	901.7	787.0	721.9	697.8	692.2
20°	2056.7	1963.3	1690.1	1416.9	1146.5	924.3	760.1	665.3	620.0	600.2	595.9
22.5°	2062.3	1929.3	1617.9	1300.8	1014.9	799.7	665.3	593.1	557.7	547.8	550.6
25°	2089.2	1909.5	1545.7	1173.4	884.7	707.7	604.4	549.2	523.7	513.8	516.6
27.5°	2109.1	1926.5	1480.6	1053.1	774.3	625.6	553.5	516.6	499.7	492.6	491.2
30°	2158.6	1936.4	1416.9	945.5	683.7	571.9	518.1	488.3	477.0	472.8	471.4
32.5°	2232.2	1954.8	1343.3	846.5	617.1	520.9	489.8	464.3	461.4	457.2	458.6
35°	2352.5	2018.5	1261.2	761.5	553.5	486.9	460.0	443.0	443.0	443.0	447.3
37.5°	2525.2	2107.6	1187.6	680.8	512.4	457.2	434.6	428.9	426.1	430.3	433.1
40°	2747.4	2215.2	1128.1	617.1	477.0	437.4	417.6	414.7	413.3	411.9	414.7
42.5°	2990.9	2352.5	1077.2	567.6	451.5	416.1	402.0	399.2	393.5	396.3	400.6
45°	3232.9	2522.4	1031.9	528.0	434.6	404.8	385.0	383.6	380.8	379.3	386.4
47.5°	3501.9	2689.4	1017.7	503.9	421.8	387.8	373.7	372.3	363.8	362.4	368.0
50°	3711.4	2812.6	1033.3	492.6	403.4	375.1	365.2	358.1	351.0	344.0	344.0
52.5°	3855.8	2897.5	1044.6	484.1	393.5	358.1	345.4	342.5	335.5	328.4	325.6
55°	3986.0	2948.4	1047.5	485.5	383.6	338.3	329.8	328.4	324.1	312.8	310.0
57.5°	4029.9	2927.2	990.8	472.8	377.9	325.6	314.2	317.1	311.4	301.5	300.1
60°	4025.6	2780.0	862.0	455.8	365.2	311.4	297.2	305.7	305.7	294.4	293.0
62.5°	3780.7	2440.3	704.9	423.2	351.0	297.2	281.7	294.4	298.7	291.6	290.2
65°	3272.6	1987.3	588.8	390.7	329.8	281.7	266.1	280.3	287.3	284.5	283.1
67.5°	2707.8	1520.2	489.8	348.2	302.9	260.4	247.7	257.6	261.9	263.3	264.7
70°	1913.7	1012.1	409.1	301.5	266.1	237.8	223.6	225.1	223.6	227.9	227.9
72.5°	1040.4	583.2	332.6	256.2	229.3	206.7	196.8	189.7	189.7	188.3	188.3
73°	890.3	523.7	317.1	249.1	219.4	201.0	189.7	184.0	184.0	182.6	181.2
75°	499.7	383.6	271.8	213.7	189.7	175.5	167.0	158.5	157.1	157.1	157.1
77.5°	328.4	298.7	216.6	171.3	152.9	140.1	137.3	128.8	128.8	128.8	127.4
80°	246.3	235.0	167.0	130.2	117.5	107.6	104.7	99.1	97.7	92.0	93.4
82.5°	164.2	185.4	121.7	92.0	79.3	73.6	73.6	72.2	67.9	60.9	60.9
85°	130.2	151.5	87.8	56.6	46.7	39.6	41.0	39.6	38.2	31.1	29.7
87.5°	24.1	60.9	25.5	15.6	11.3	7.1	7.1	4.2	2.8	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)