

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: P476825

Luminaire Tested: **IFLD-S-SA2A-722-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476825  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-722-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

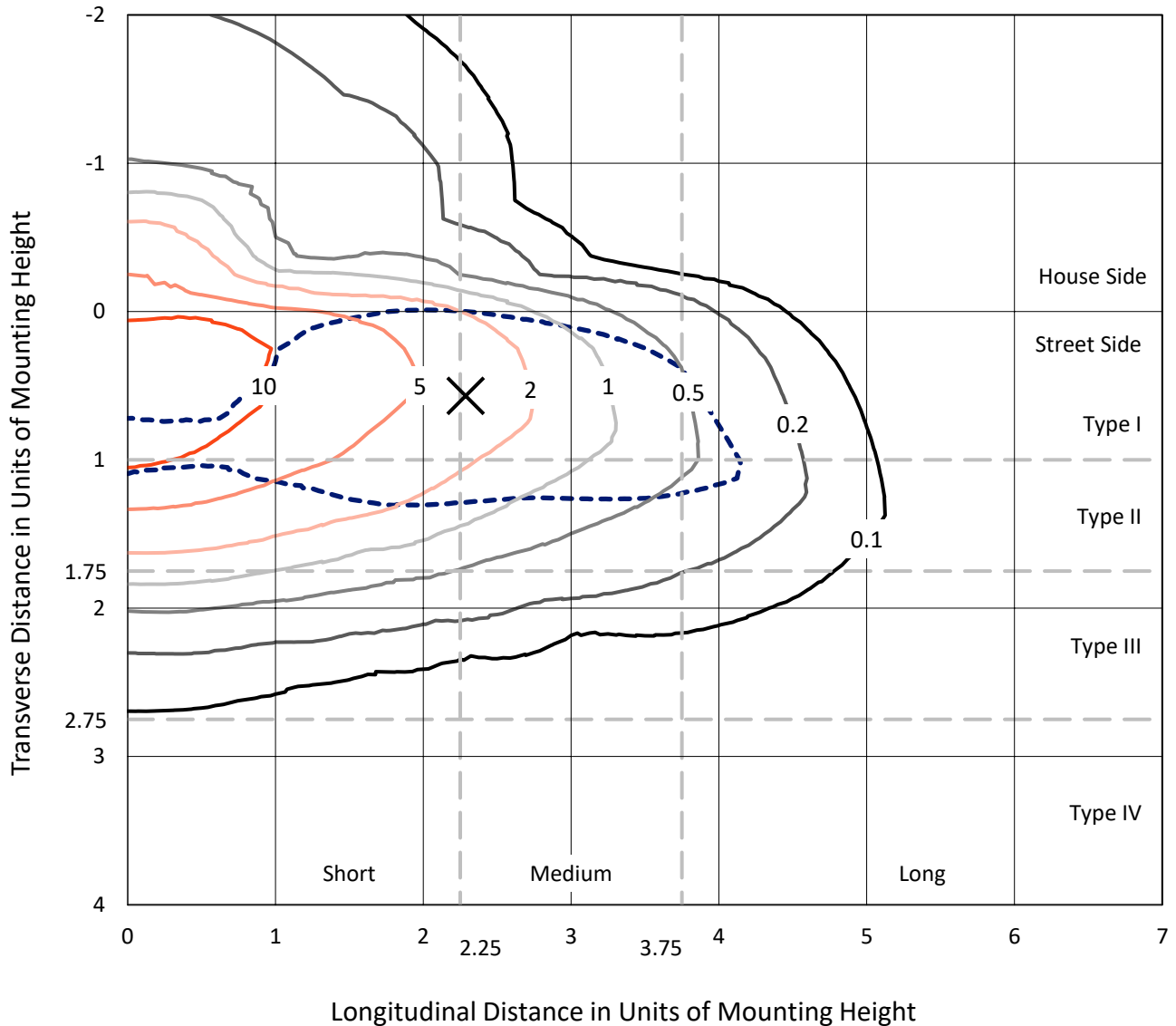
Lumens per Lamp: N/A  
Luminaire Lumens: 6838.7 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
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

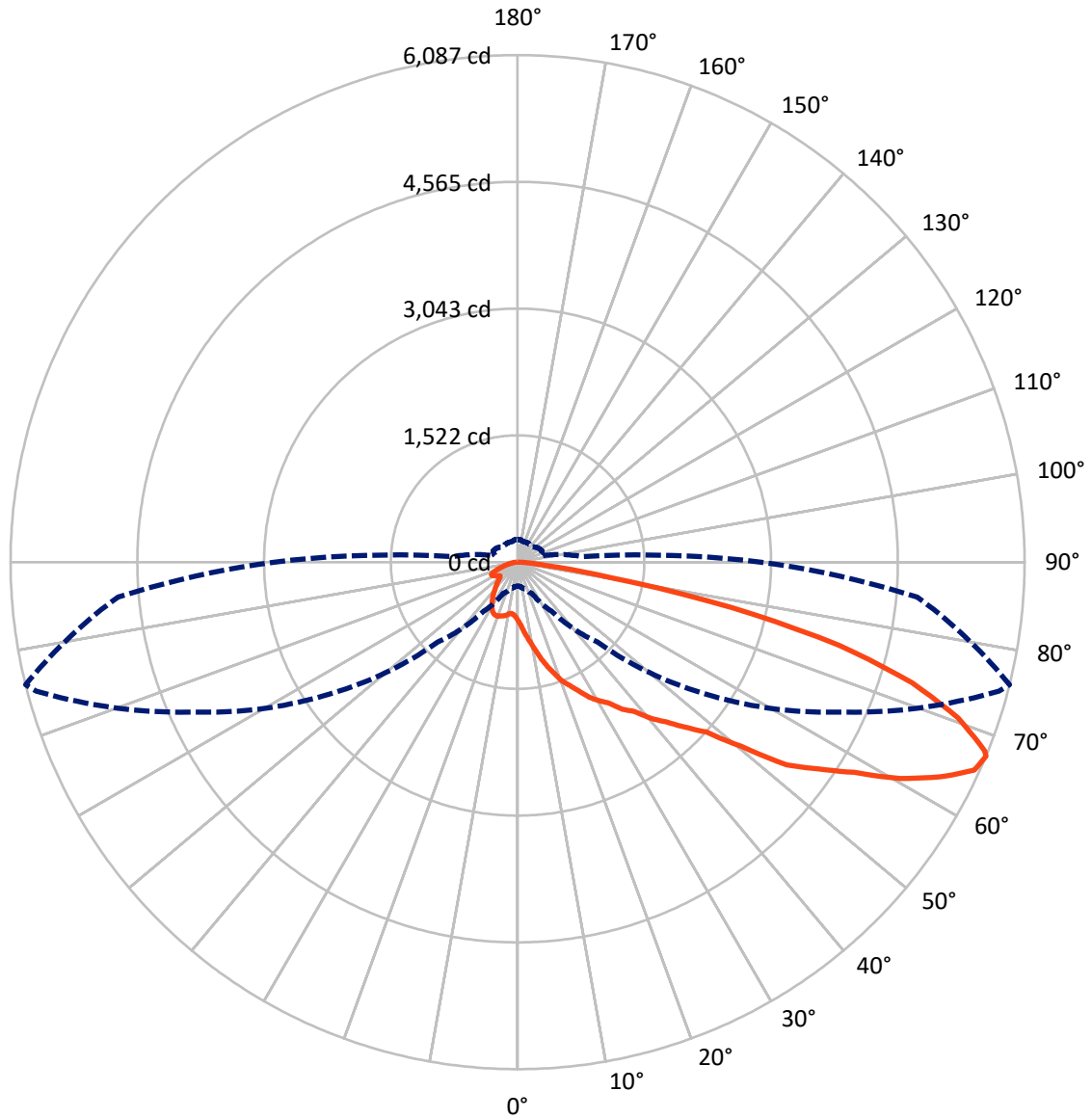
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 fc  
 Type II - Medium - N/A

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CATALOG NUMBER: IFLD-S-SA2A-722-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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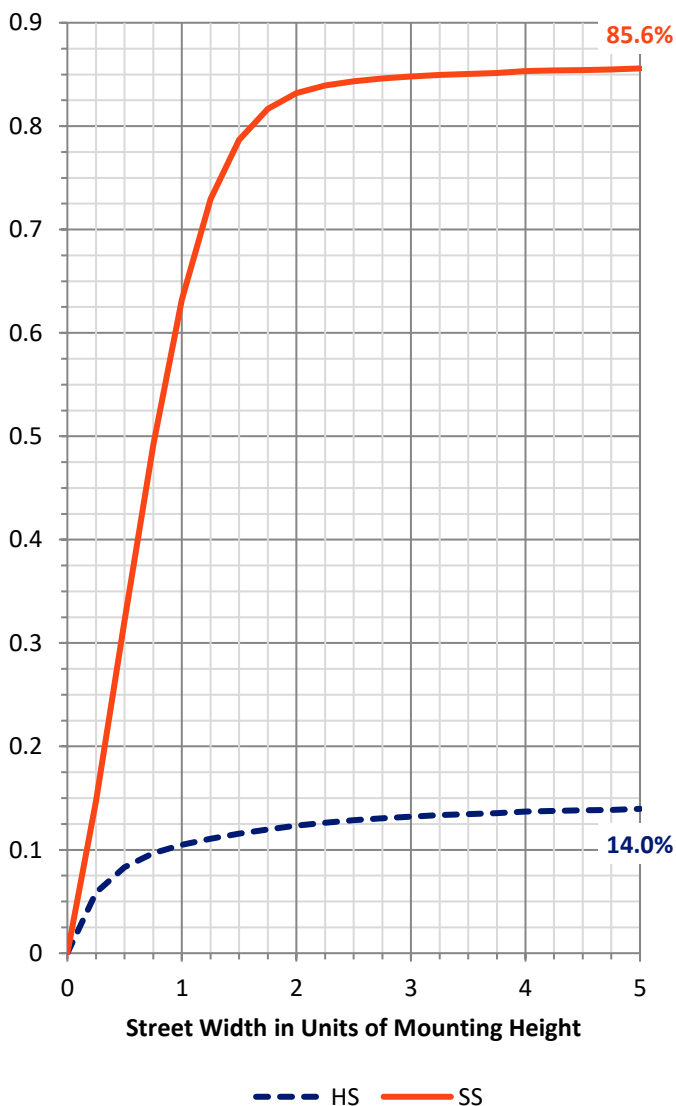
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	972.9	0.0	972.9
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	5865.8	0.0	5865.8
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	6838.7	0.0	6838.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.1	1.2
10°-20°	304.0	4.4
20°-30°	565.2	8.3
30°-40°	896.0	13.1
40°-50°	1239.3	18.1
50°-60°	1524.4	22.3
60°-70°	1418.6	20.7
70°-80°	711.8	10.4
80°-90°	98.1	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°	6838.7	100.0
0°-180°	6838.7	100.0

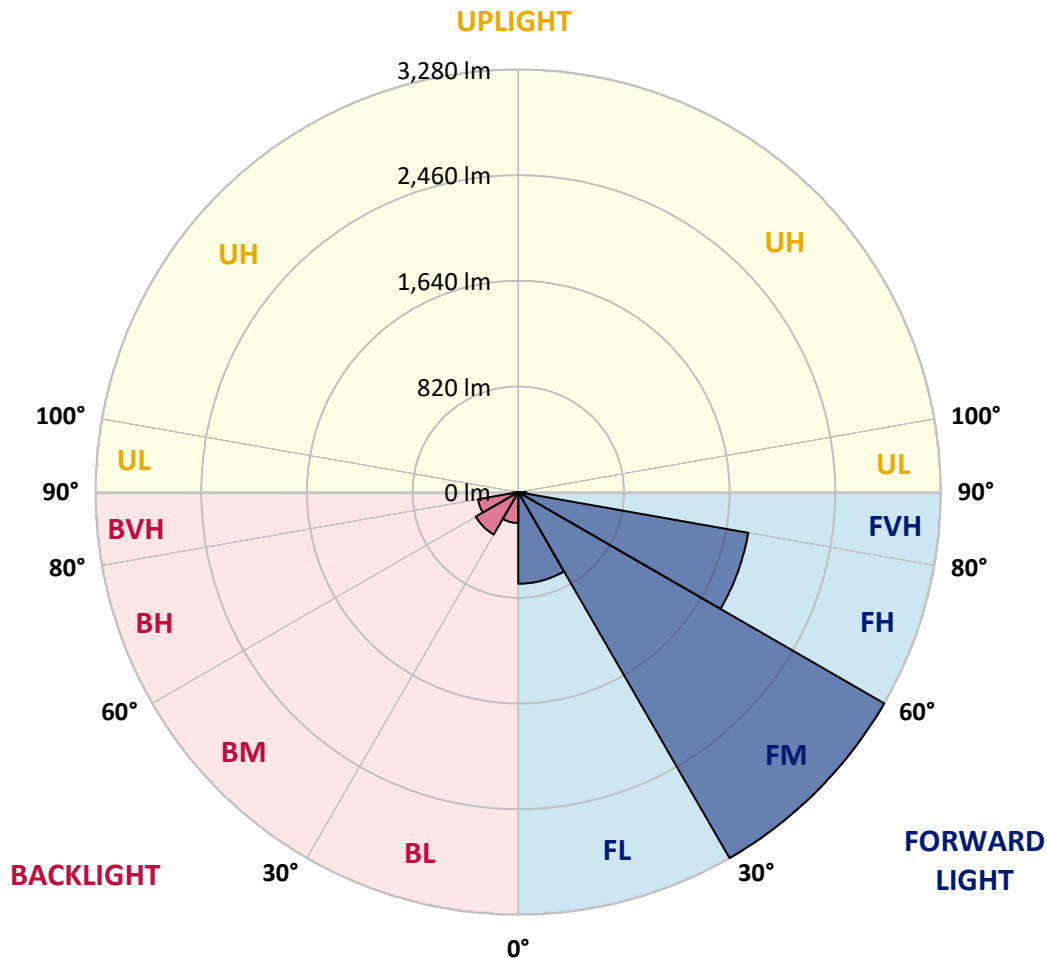


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 CATALOG NUMBER: IFLD-S-SA2A-722-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	710.8	10.4			
FM (30°-60°)	3279.6	48.0			
FH (60°-80°)	1812.9	26.5			G2/5000
FVH (80°-90°)	62.5	0.9			G1/100
BL (0°-30°)	239.6	3.5	B1/500		
BM (30°-60°)	380.2	5.6	B1/1000		
BH (60°-80°)	317.5	4.6	B1/500		G1/500
BVH (80°-90°)	35.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
2.5°	971.0	959.3	947.7	922.7	914.1	890.8	847.9	800.4	761.4	755.9	728.7
5°	1204.8	1187.7	1183.8	1169.8	1125.3	1080.1	1010.0	933.6	838.6	845.6	752.0
7.5°	1380.2	1370.1	1349.0	1335.8	1309.3	1249.3	1176.8	1075.5	954.7	931.3	804.3
10°	1512.7	1498.6	1497.9	1486.2	1472.1	1410.6	1355.2	1218.9	1063.8	1031.8	868.2
12.5°	1579.7	1577.4	1618.7	1618.7	1613.2	1587.5	1492.4	1367.7	1167.4	1156.5	942.2
15°	1652.2	1632.7	1668.5	1695.8	1709.8	1723.1	1644.4	1512.7	1299.9	1278.9	1021.7
17.5°	1652.2	1650.6	1686.5	1731.7	1804.9	1822.1	1779.2	1645.9	1409.8	1394.2	1109.0
20°	1624.1	1646.7	1671.7	1732.4	1811.9	1881.3	1893.8	1782.3	1531.4	1518.9	1208.0
22.5°	1755.0	1733.2	1758.9	1782.3	1843.9	1949.1	1983.4	1902.3	1659.2	1611.6	1297.6
25°	1974.8	1960.0	1941.3	1907.0	1932.7	1978.7	2030.9	1991.2	1768.3	1715.3	1384.1
27.5°	2189.1	2189.9	2149.4	2074.6	2019.2	2028.6	2090.1	2069.1	1860.2	1836.9	1443.3
30°	2493.8	2475.1	2429.9	2328.6	2220.3	2131.5	2121.3	2141.6	1977.1	1931.9	1528.3
32.5°	2722.2	2726.1	2662.2	2516.4	2368.4	2295.9	2207.0	2215.6	2051.2	2017.7	1596.1
35°	2906.9	2902.2	2857.0	2736.2	2560.9	2473.6	2353.6	2304.5	2223.4	2170.4	1699.7
37.5°	3106.4	3068.2	2994.9	2858.6	2746.3	2625.5	2508.6	2398.0	2338.0	2274.1	1788.6
40°	3186.7	3186.7	3088.5	3026.1	2892.9	2801.7	2726.1	2521.1	2477.5	2465.0	1902.3
42.5°	3129.8	3164.8	3124.3	3053.4	2998.8	2883.5	2863.2	2648.9	2649.7	2624.8	2038.7
45°	3124.3	3076.0	3042.5	3060.4	3034.7	3028.5	3079.9	2825.8	2830.5	2827.4	2221.9
47.5°	2967.7	2945.8	2995.7	3025.3	3046.4	3143.0	3291.1	3037.0	3070.5	3047.2	2433.1
50°	2811.8	2807.9	2839.1	2946.6	3037.8	3196.8	3492.2	3362.8	3472.7	3471.1	2815.7
52.5°	2384.7	2426.0	2548.4	2776.0	3001.2	3270.0	3644.1	3778.9	3988.6	4045.5	3132.9
55°	1976.4	1954.5	2135.3	2465.8	2841.4	3298.9	3814.0	4029.1	4337.7	4379.0	3458.6
57.5°	1537.6	1578.1	1720.7	2037.9	2511.0	3156.3	3938.7	4276.2	4732.1	4764.0	3836.6
60°	1147.2	1152.6	1309.3	1564.9	2071.4	2834.4	3979.2	4529.4	5184.1	5275.2	4232.5
62.5°	721.7	754.4	873.6	1125.3	1559.4	2384.0	3797.6	4683.0	5657.9	5682.1	4631.5
65°	388.9	409.9	499.5	657.8	1089.5	1803.4	3316.0	4591.0	5880.8	6024.2	4809.2
67°	287.6	291.5	332.8	420.1	728.7	1357.6	2765.0	4258.2	5982.1	6086.5	4816.2
67.5°	269.6	275.1	307.8	377.2	646.1	1250.0	2620.9	4139.8	5936.9	6049.1	4761.7
70°	230.7	232.2	240.0	259.5	362.4	752.0	1784.7	3392.4	5502.8	5610.4	4379.0
72.5°	205.0	206.5	209.6	213.5	245.5	434.9	1085.6	2610.7	4782.7	4954.2	3778.2
75°	180.0	185.5	187.0	183.9	208.9	282.9	577.5	1918.7	3901.3	3984.7	2938.1
77.5°	152.7	155.1	158.2	161.3	186.3	211.2	277.4	1295.2	2677.8	2627.1	1589.0
80°	128.6	129.4	131.7	134.0	161.3	161.3	157.4	699.8	1169.8	1118.3	537.0
82.5°	92.0	97.4	102.9	109.1	134.0	108.3	102.9	311.7	370.2	352.3	181.6
85°	35.8	43.6	67.8	74.8	84.9	58.4	68.6	134.8	154.3	152.7	67.8
87.5°	6.2	7.0	18.7	28.8	31.2	20.3	32.7	48.3	57.7	62.3	24.9
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°	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
2.5°	706.1	681.9	653.1	624.2	605.5	575.9	573.6	555.7	553.3	547.1	550.2
5°	711.5	682.7	624.2	578.3	557.2	540.1	544.0	536.2	533.8	529.9	523.7
7.5°	754.4	697.5	610.2	570.5	554.9	547.1	547.1	537.7	530.7	535.4	540.1
10°	782.4	704.5	621.1	581.4	568.9	551.8	558.0	546.3	550.2	540.9	540.9
12.5°	827.6	744.3	643.7	597.7	577.5	561.9	568.1	554.9	551.8	552.5	550.2
15°	888.4	770.8	653.9	607.1	593.1	573.6	568.9	557.2	545.5	541.6	546.3
17.5°	945.3	803.5	660.9	612.5	589.9	568.1	562.7	547.9	544.0	532.3	522.9
20°	1013.1	842.5	670.2	617.2	578.3	556.4	542.4	527.6	514.4	507.3	510.5
22.5°	1058.3	862.7	674.9	607.9	561.1	540.9	511.2	501.1	482.4	474.6	468.4
25°	1132.4	887.7	663.2	582.2	530.7	498.0	471.5	457.5	444.2	434.1	431.0
27.5°	1151.1	906.4	635.9	538.5	482.4	448.1	425.5	408.4	399.8	384.2	381.1
30°	1205.6	887.7	595.4	485.5	436.4	401.4	378.8	366.3	346.0	342.1	333.6
32.5°	1240.7	893.1	544.0	434.1	383.4	352.3	337.4	325.0	319.5	300.8	296.1
35°	1299.1	874.4	491.8	386.5	339.8	315.6	303.2	299.3	281.3	272.8	265.0
37.5°	1336.5	863.5	439.5	332.8	292.2	282.1	286.0	269.6	247.8	231.5	226.0
40°	1402.0	859.6	380.3	288.4	259.5	257.2	269.6	238.5	198.7	184.7	176.9
42.5°	1496.3	833.1	334.3	248.6	233.8	243.9	246.3	198.7	176.1	164.4	159.0
45°	1586.7	838.6	289.1	205.7	203.4	218.2	212.8	168.3	155.1	146.5	151.2
47.5°	1760.5	865.8	244.7	171.5	183.1	197.2	165.2	150.4	137.9	131.7	132.5
50°	2029.4	892.3	205.7	156.6	173.0	178.5	141.8	136.4	135.6	123.1	122.4
52.5°	2190.7	882.2	198.7	175.3	185.5	178.5	154.3	150.4	144.2	138.7	132.5
55°	2447.1	911.8	213.5	205.0	210.4	171.5	173.0	171.5	166.8	152.7	156.6
57.5°	2651.3	931.3	233.0	229.1	226.0	178.5	180.8	181.6	178.5	172.2	177.7
60°	2931.8	970.3	253.3	254.1	254.8	194.1	197.9	202.6	201.8	199.5	201.1
62.5°	3104.1	952.3	275.9	288.4	284.5	226.0	225.2	228.3	228.3	232.2	234.6
65°	3078.3	886.1	287.6	318.7	298.5	249.4	249.4	250.9	251.7	259.5	260.3
67°	2924.0	767.6	281.3	323.4	298.5	258.7	258.7	260.3	254.8	275.1	268.9
67.5°	2852.3	732.6	275.9	319.5	296.1	258.0	258.0	258.7	254.1	273.5	267.3
70°	2480.6	544.0	237.7	282.9	274.3	250.9	250.9	246.3	242.4	268.1	262.6
72.5°	2117.4	395.1	190.9	240.8	247.8	241.6	243.1	231.5	220.5	238.5	233.8
75°	1621.8	290.7	148.9	185.5	209.6	226.0	236.1	206.5	192.5	197.2	188.6
77.5°	904.8	189.4	117.7	137.2	159.8	210.4	226.8	186.3	157.4	152.0	152.0
80°	307.1	110.7	86.5	102.1	109.9	186.3	212.0	151.2	123.9	118.5	114.6
82.5°	116.1	67.8	59.2	70.1	70.1	147.3	173.0	116.1	93.5	120.8	123.1
85°	53.0	40.5	39.0	40.5	40.5	90.4	122.4	75.6	84.2	72.5	63.9
87.5°	21.0	19.5	17.9	17.1	14.0	15.6	42.1	20.3	38.2	10.1	9.4
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)