

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: P482968

Luminaire Tested: **IFLD-S-SA6A-827-U-T3R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482968  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-827-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

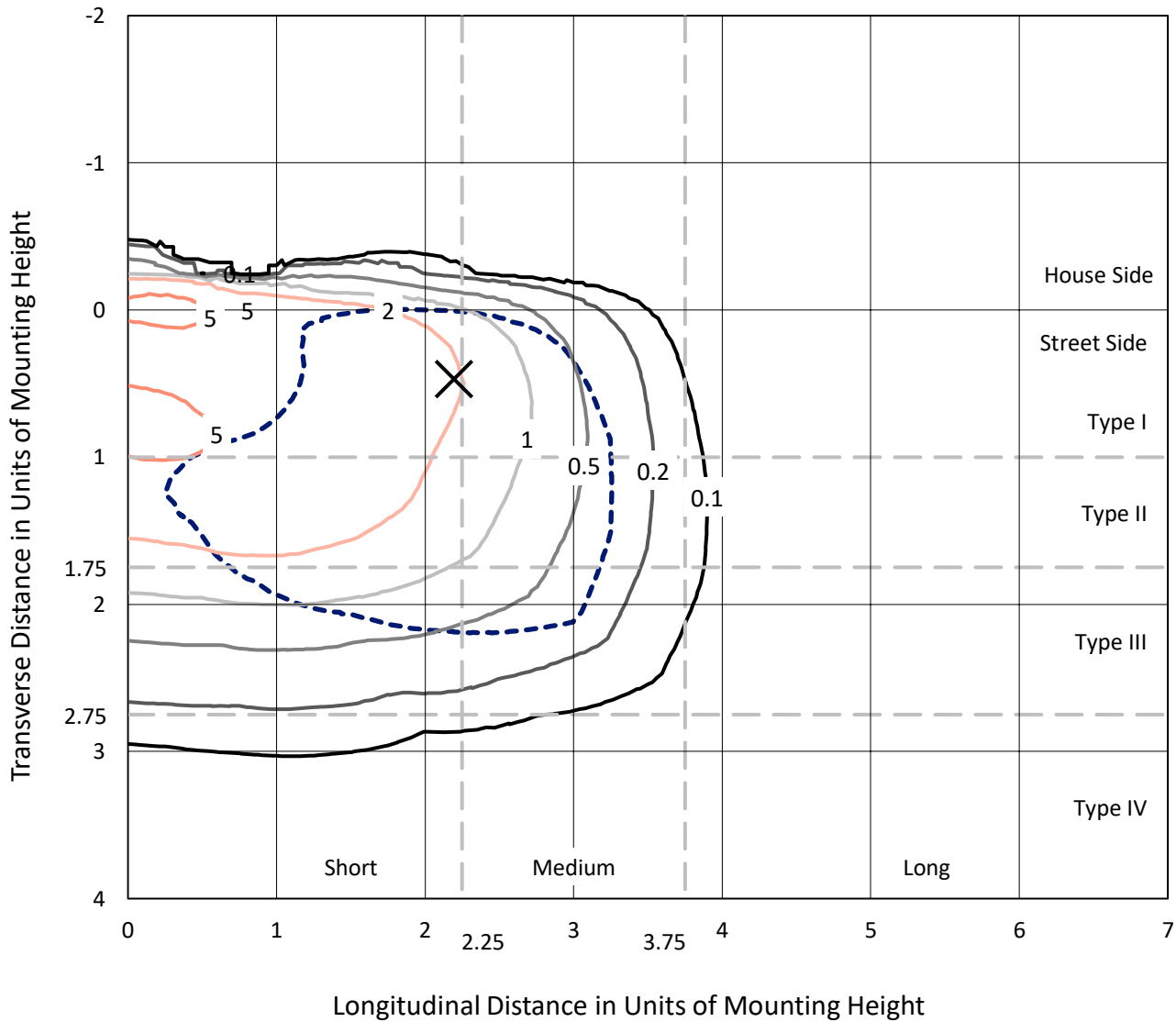
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14221.9 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 189.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

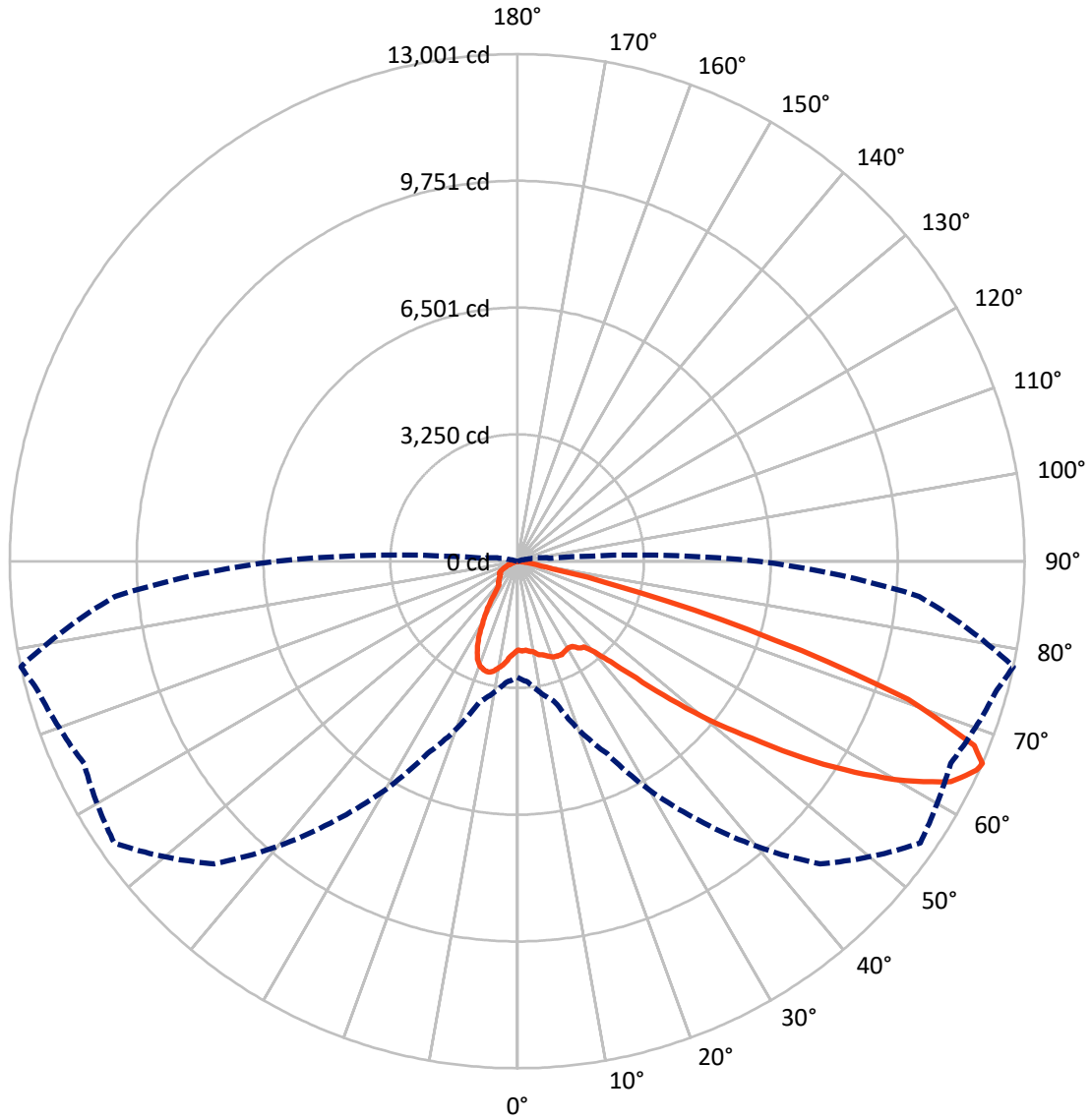
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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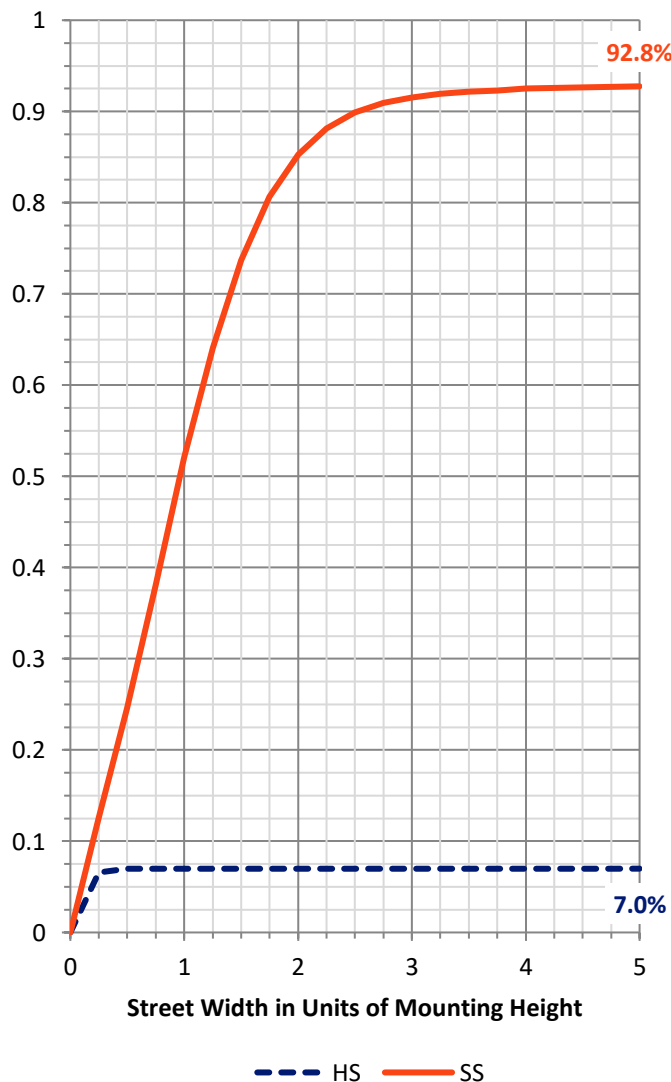
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	999.9	0.0	999.9
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	13222.0	0.0	13222.0
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	14221.9	0.0	14221.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.4	1.5
10°-20°	470.4	3.3
20°-30°	672.4	4.7
30°-40°	1150.9	8.1
40°-50°	2077.3	14.6
50°-60°	3552.5	25.0
60°-70°	4372.4	30.7
70°-80°	1653.0	11.6
80°-90°	64.6	0.5
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°	14221.9	100.0
0°-180°	14221.9	100.0

**Coefficient of Utilization**

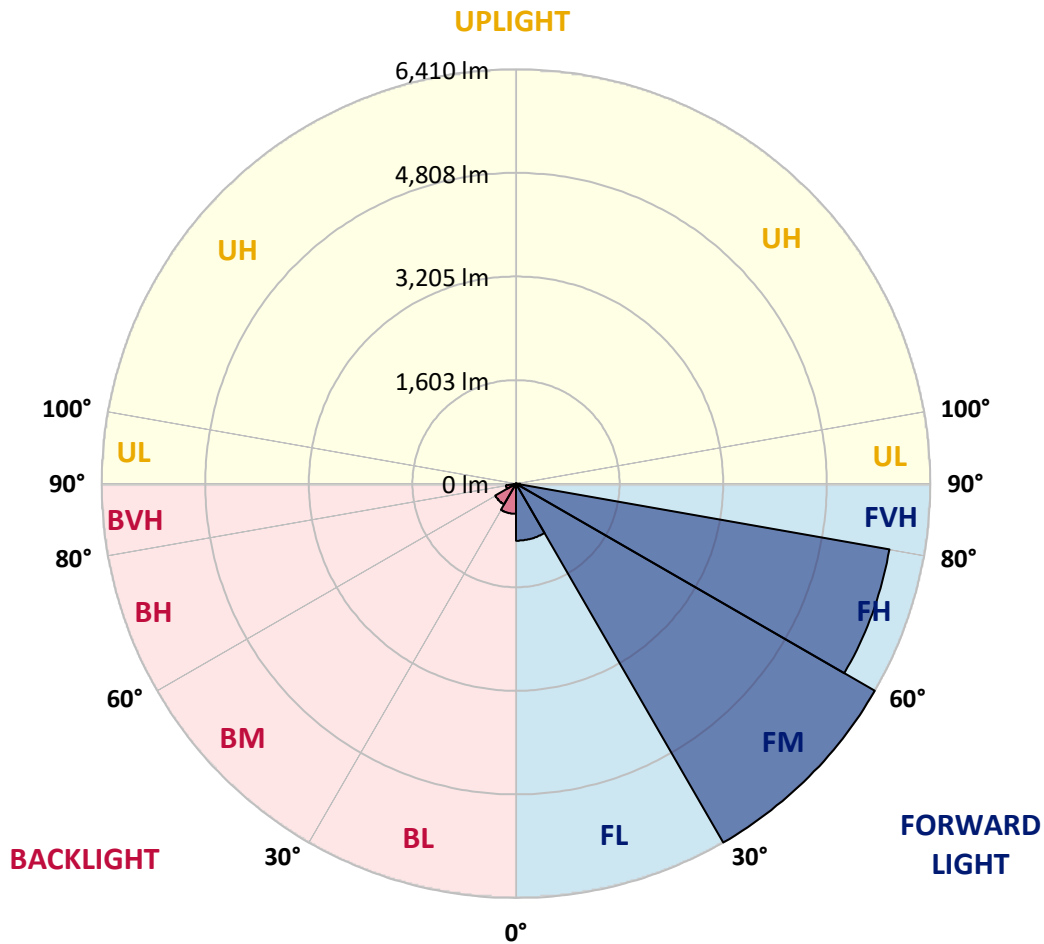


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	882.9	6.2			
FM (30°-60°)	6410.1	45.1			
FH (60°-80°)	5867.1	41.3			G3/7500
FVH (80°-90°)	62.0	0.4			G1/100
BL (0°-30°)	468.3	3.3	B1/500		
BM (30°-60°)	370.6	2.6	B1/1000		
BH (60°-80°)	158.4	1.1	B1/500		G1/500
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9
2.5°	2095.2	2075.9	2095.2	2123.2	2138.2	2151.1	2196.2	2234.9	2275.7	2303.7	2295.1
5°	1942.7	1979.2	1983.5	1992.1	2015.7	2093.1	2118.9	2185.5	2286.5	2295.1	2333.8
7.5°	1822.3	1811.6	1839.5	1895.4	1955.5	2000.7	2075.9	2191.9	2297.2	2333.8	2409.0
10°	1648.2	1669.7	1699.8	1755.7	1828.8	1940.5	2073.7	2202.7	2353.1	2366.0	2505.7
12.5°	1553.7	1532.2	1579.5	1637.5	1762.1	1865.3	2028.6	2183.3	2387.5	2458.4	2619.6
15°	1476.3	1487.1	1532.2	1570.9	1674.0	1805.1	1996.4	2230.6	2445.5	2494.9	2739.9
17.5°	1444.1	1437.6	1472.0	1510.7	1637.5	1785.8	1983.5	2232.8	2497.1	2561.6	2821.6
20°	1459.1	1472.0	1461.3	1497.8	1577.3	1727.8	2002.8	2273.6	2535.8	2623.9	2909.7
22.5°	1695.5	1678.3	1592.4	1523.6	1527.9	1704.1	1987.8	2299.4	2570.1	2641.1	2969.9
25°	2312.3	2219.9	2007.1	1742.8	1568.7	1639.7	1970.6	2290.8	2563.7	2651.8	3006.4
27.5°	2933.3	2853.8	2645.4	2234.9	1734.2	1613.9	1910.4	2297.2	2531.5	2613.1	2946.2
30°	3588.7	3631.7	3322.3	2834.5	2168.3	1755.7	1871.7	2262.8	2510.0	2578.7	2959.1
32.5°	4261.4	4244.2	4057.2	3528.6	2789.3	2069.4	1934.1	2297.2	2537.9	2604.5	3034.3
35°	4787.9	4727.7	4538.6	4061.5	3302.9	2542.2	2149.0	2460.5	2660.4	2739.9	3141.8
37.5°	5047.9	5073.7	4964.1	4549.3	3866.0	2980.6	2417.6	2460.5	2699.1	2791.5	3315.8
40°	5249.9	5327.3	5286.4	5153.2	4424.7	3474.9	2714.1	2613.1	2894.6	3068.7	3642.5
42.5°	5492.7	5456.2	5696.9	5574.4	5155.3	4098.1	3234.2	2976.3	3356.7	3524.3	4132.4
45°	5621.7	5761.3	5944.0	6100.9	5832.3	4876.0	3913.2	3618.8	4063.7	4276.4	4860.9
47.5°	5952.6	6008.5	6305.0	6502.7	6382.4	5765.6	4944.7	4557.9	4953.3	5288.6	5694.7
50°	6146.0	6070.8	6485.5	6786.4	6855.2	6502.7	5868.8	5567.9	6010.6	6438.3	6474.8
52.5°	5976.2	6191.1	6605.9	7145.3	7336.5	7160.3	6954.0	6822.9	7134.5	7529.9	7353.7
55°	5381.0	5527.1	6537.1	7538.5	8155.3	8073.6	8264.9	8178.9	8492.7	8911.7	8380.9
57.5°	4901.8	5084.4	5971.9	7742.7	8918.1	9158.8	9399.5	9345.8	9724.0	10207.5	9251.2
60°	4603.1	4708.4	5563.6	7691.1	9369.4	10280.6	10824.3	10446.1	11062.8	11432.4	9932.5
62.5°	4085.2	4151.8	4968.4	7007.7	9504.8	11073.5	11995.4	11481.8	12016.9	12468.2	10422.4
65°	3275.0	3455.5	4130.3	5984.8	8610.8	11219.7	12726.1	12122.2	12640.1	12936.7	10570.7
66°	2980.6	3111.7	3730.6	5443.3	8101.5	10976.8	12603.6	12255.5	12730.4	13001.2	10342.9
67.5°	2473.4	2587.3	3079.4	4671.8	7059.3	10441.8	12689.6	12165.2	12799.2	12633.7	10037.8
70°	1637.5	1710.6	2106.0	3159.0	4916.8	8542.1	11769.8	11460.4	11251.9	10630.9	7848.0
72.5°	765.0	870.3	1315.2	1914.7	2883.9	5976.2	9597.2	9182.5	7891.0	6898.1	4951.2
75°	346.0	393.3	722.0	1098.1	1293.7	3096.6	6191.1	5591.6	3928.3	3262.1	2168.3
77.5°	187.0	212.7	352.4	522.2	470.6	1085.2	3064.4	2548.7	1237.8	906.9	629.6
80°	144.0	169.8	294.4	298.7	174.1	281.5	1138.9	788.7	309.4	234.2	150.4
82.5°	75.2	107.4	232.1	193.4	88.1	113.9	352.4	219.2	96.7	77.4	64.5
85°	30.1	47.3	131.1	128.9	51.6	38.7	98.9	66.6	38.7	32.2	30.1
87.5°	2.1	2.1	70.9	49.4	32.2	10.7	15.0	15.0	19.3	17.2	21.5
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°	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9	2277.9
2.5°	2333.8	2359.5	2363.8	2434.8	2449.8	2434.8	2473.4	2467.0	2484.2	2471.3	2447.7
5°	2387.5	2424.0	2494.9	2548.7	2548.7	2505.7	2471.3	2426.2	2359.5	2342.4	2329.5
7.5°	2479.9	2595.9	2660.4	2626.0	2557.3	2396.1	2172.6	2009.3	1871.7	1820.2	1796.5
10°	2643.2	2707.7	2782.9	2643.2	2357.4	2015.7	1639.7	1392.5	1199.1	1156.1	1123.9
12.5°	2748.5	2851.7	2894.6	2548.7	1987.8	1478.5	1070.2	790.8	655.4	552.3	535.1
15°	2886.0	3004.2	2916.1	2292.9	1566.6	969.2	554.4	346.0	281.5	264.3	264.3
17.5°	2980.6	3109.5	2828.0	1974.9	1111.0	515.7	275.1	238.5	234.2	236.4	232.1
20°	3146.1	3223.4	2694.8	1605.3	664.0	264.3	221.3	212.7	208.4	214.9	210.6
22.5°	3208.4	3279.3	2477.7	1162.6	298.7	176.2	165.5	159.0	163.3	161.2	159.0
25°	3204.1	3240.6	2121.0	666.2	88.1	68.8	62.3	62.3	58.0	60.2	58.0
27.5°	3236.3	3146.1	1721.3	197.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3253.5	2993.5	1224.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3262.1	2914.0	788.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3328.7	2755.0	337.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3373.9	2550.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3560.8	2486.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3803.6	2366.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4141.0	2187.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4588.0	2082.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4921.1	1916.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5344.4	1818.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5847.3	1822.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6305.0	1792.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6539.3	1532.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6489.8	1239.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6317.9	973.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6199.7	861.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5840.9	689.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4648.2	472.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2957.0	290.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1362.4	133.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	427.6	81.7	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	111.7	51.6	17.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	58.0	36.5	15.0	6.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.5	15.0	6.4	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	32.2	8.6	4.3	4.3	2.1	0.0	0.0	0.0	0.0	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)