

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: P482975

Luminaire Tested: **IFLD-M-SA4C-827-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482975
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

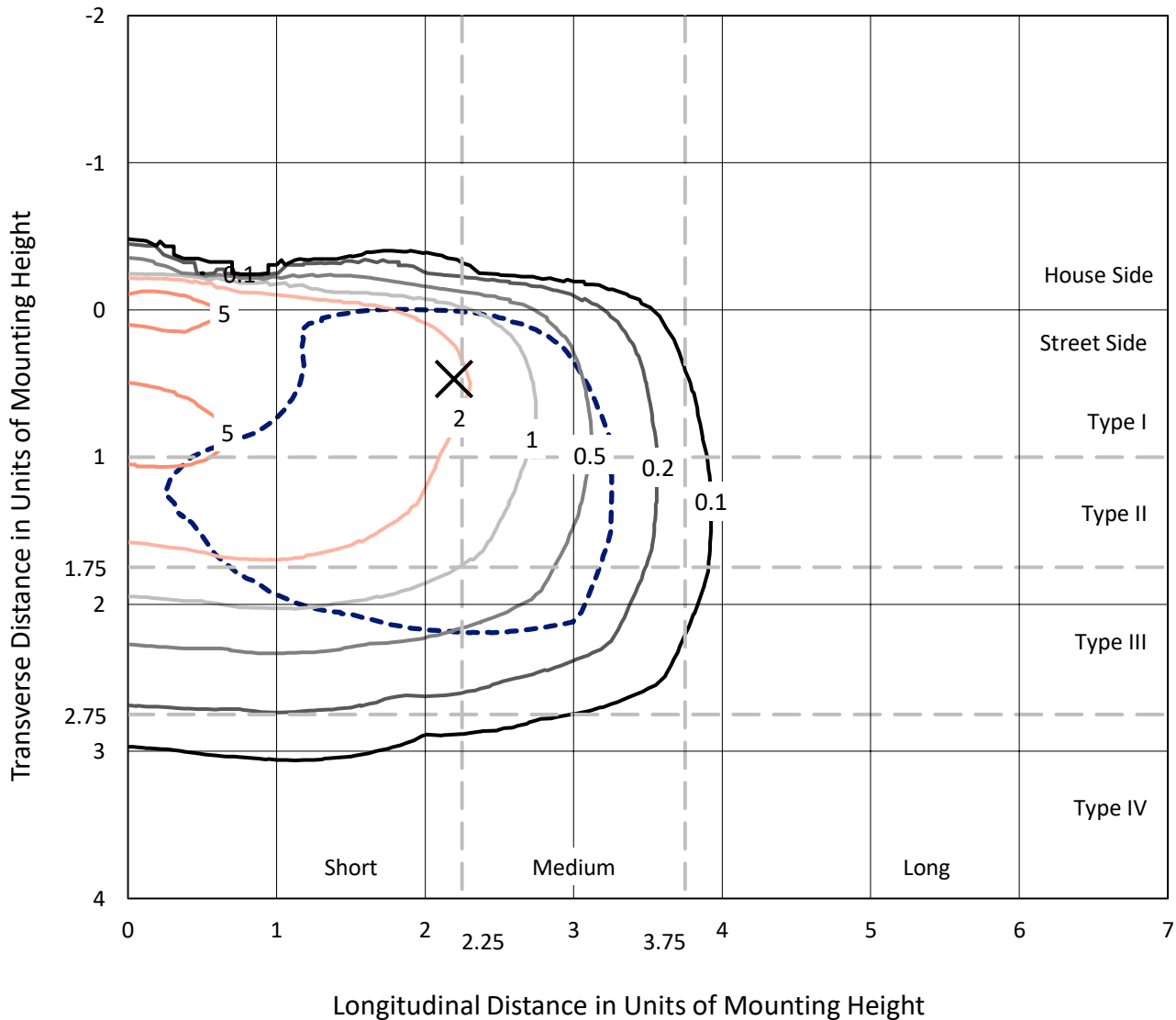
Lumens per Lamp: N/A
Luminaire Lumens: 14981.6 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 218.1
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

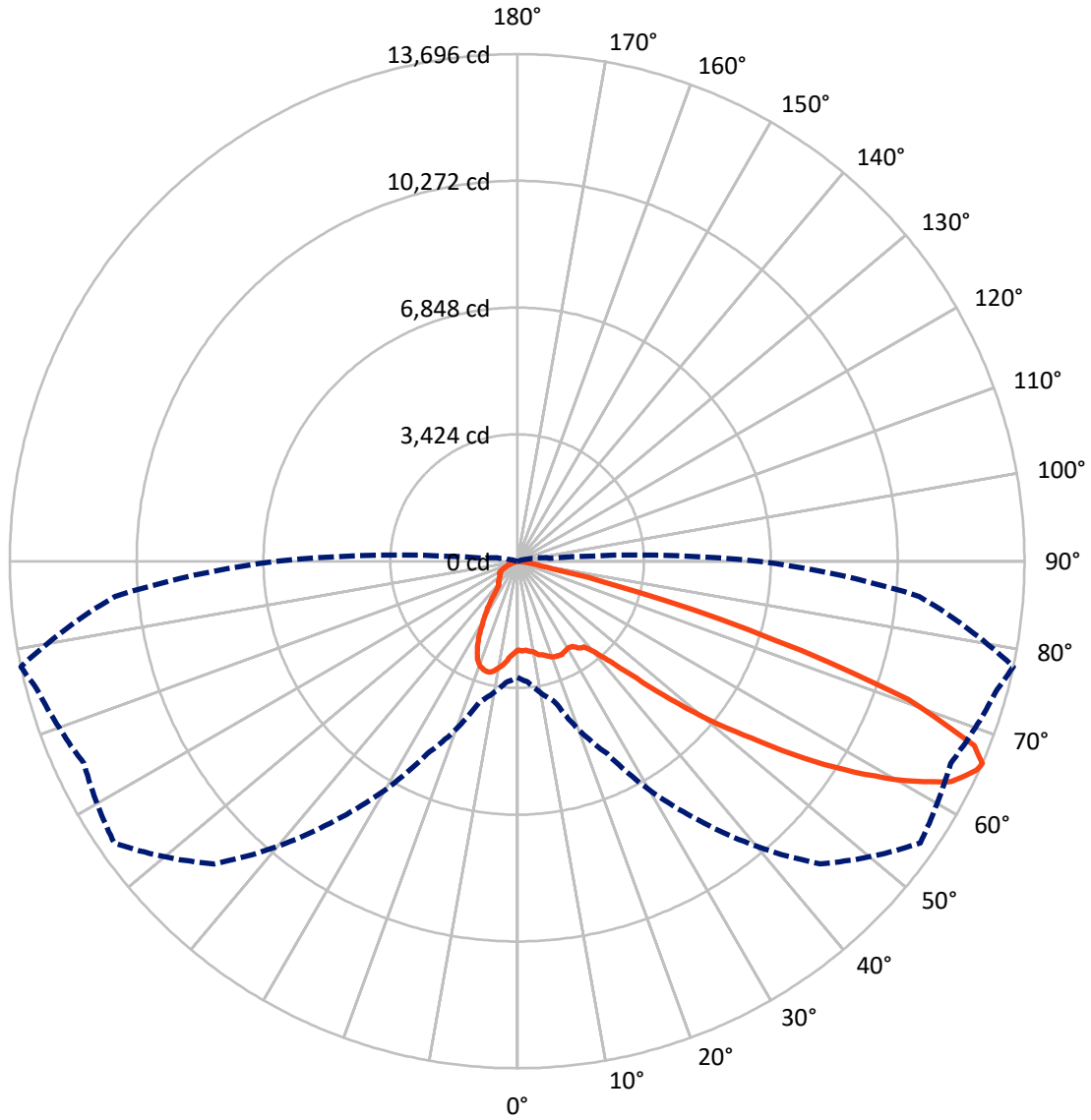
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 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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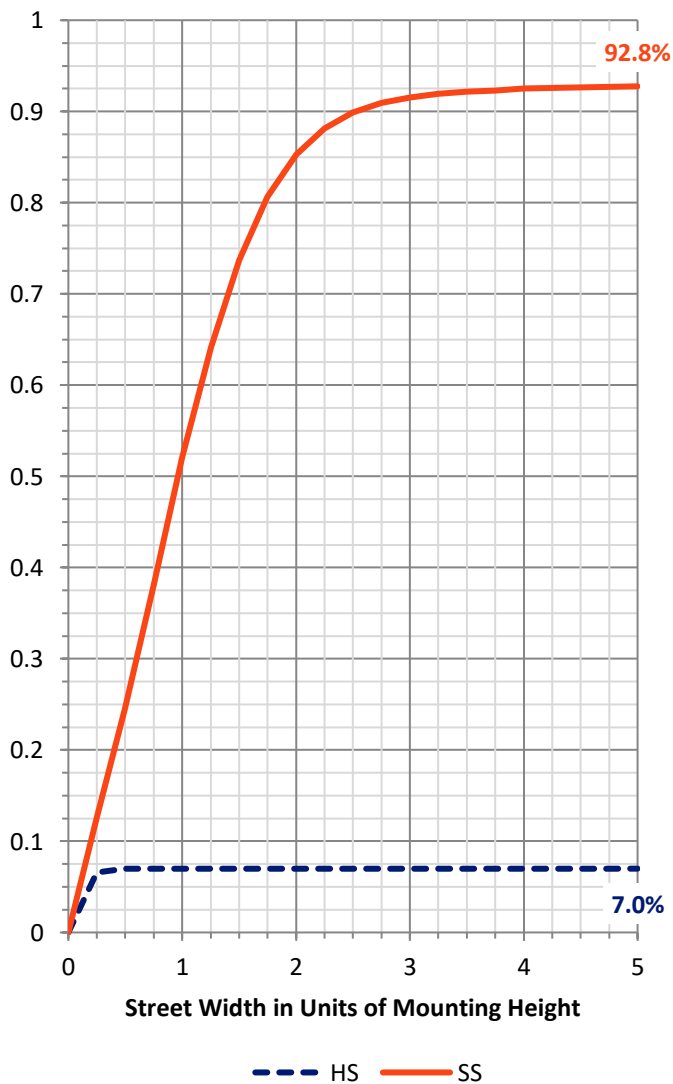
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1053.3	0.0	1053.3
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	13928.3	0.0	13928.3
	% Fixture	93.0	0.0	93.0
Total	Lumens	14981.6	0.0	14981.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.5	1.5
10°-20°	495.5	3.3
20°-30°	708.3	4.7
30°-40°	1212.4	8.1
40°-50°	2188.3	14.6
50°-60°	3742.2	25.0
60°-70°	4606.0	30.7
70°-80°	1741.3	11.6
80°-90°	68.0	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°	14981.6	100.0
0°-180°	14981.6	100.0

Coefficient of Utilization

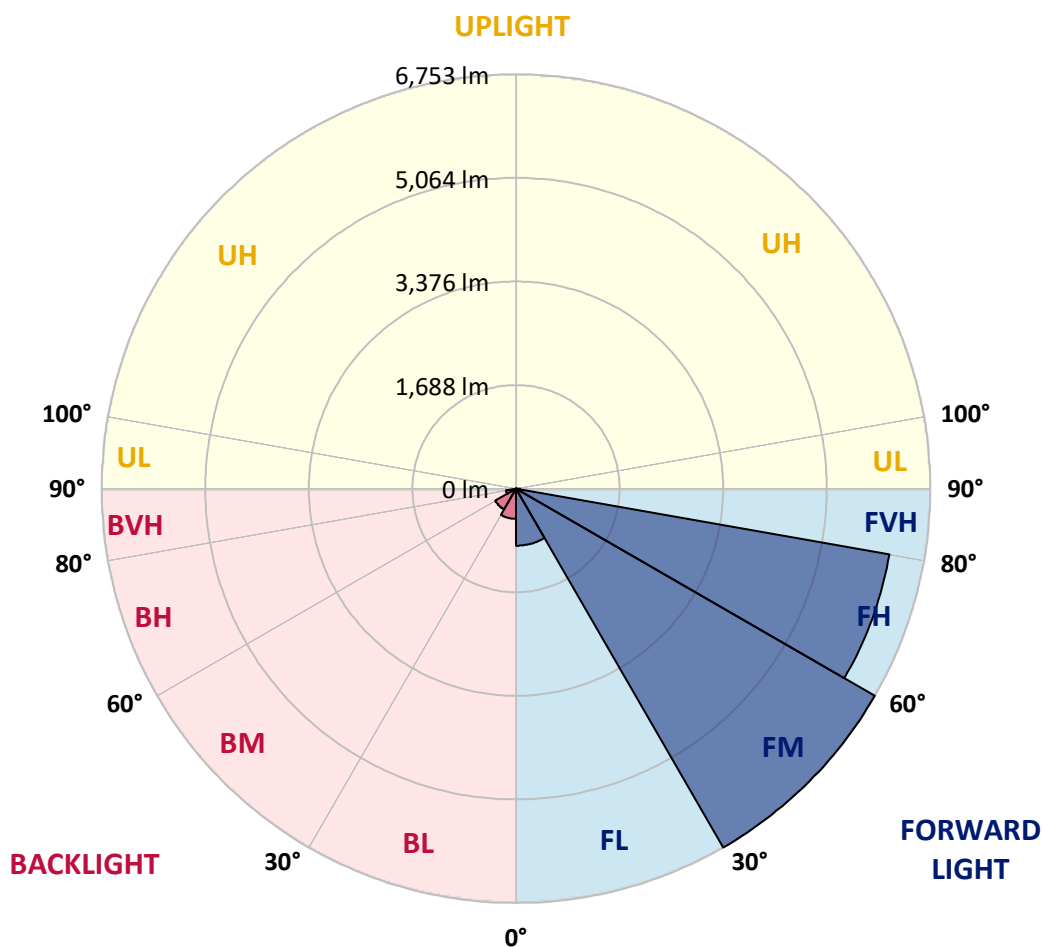


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	930.1	6.2			
FM (30°-60°)	6752.5	45.1			
FH (60°-80°)	6180.5	41.3			G3/7500
FVH (80°-90°)	65.3	0.4			G1/100
BL (0°-30°)	493.3	3.3	B1/500		
BM (30°-60°)	390.4	2.6	B1/1000		
BH (60°-80°)	166.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.7	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°	2399.6	2399.6	2399.6	2399.6	2399.6	2399.6	2399.6	2399.6	2399.6	2399.6	2399.6
2.5°	2207.2	2186.8	2207.2	2236.6	2252.4	2266.0	2313.5	2354.3	2397.3	2426.7	2417.7
5°	2046.4	2084.9	2089.4	2098.5	2123.4	2204.9	2232.1	2302.2	2408.6	2417.7	2458.4
7.5°	1919.7	1908.3	1937.8	1996.6	2060.0	2107.5	2186.8	2309.0	2419.9	2458.4	2537.7
10°	1736.3	1758.9	1790.6	1849.5	1926.4	2044.2	2184.5	2320.3	2478.8	2492.4	2639.5
12.5°	1636.7	1614.0	1663.9	1725.0	1856.3	1964.9	2137.0	2300.0	2515.0	2589.7	2759.5
15°	1555.2	1566.5	1614.0	1654.8	1763.5	1901.5	2103.0	2349.8	2576.1	2628.2	2886.3
17.5°	1521.2	1514.4	1550.7	1591.4	1725.0	1881.2	2089.4	2352.0	2630.5	2698.4	2972.3
20°	1537.1	1550.7	1539.3	1577.8	1661.6	1820.1	2109.8	2395.0	2671.2	2764.0	3065.1
22.5°	1786.1	1768.0	1677.4	1605.0	1609.5	1795.1	2094.0	2422.2	2707.4	2782.1	3128.5
25°	2435.8	2338.4	2114.3	1835.9	1652.5	1727.2	2075.9	2413.2	2700.6	2793.5	3167.0
27.5°	3090.0	3006.3	2786.7	2354.3	1826.8	1700.1	2012.5	2419.9	2666.7	2752.7	3103.6
30°	3780.5	3825.7	3499.7	2985.9	2284.1	1849.5	1971.7	2383.7	2644.1	2716.5	3117.2
32.5°	4489.0	4470.9	4273.9	3717.1	2938.3	2180.0	2037.4	2419.9	2673.5	2743.7	3196.4
35°	5043.6	4980.2	4781.0	4278.5	3479.4	2678.0	2263.7	2592.0	2802.5	2886.3	3309.6
37.5°	5317.5	5344.7	5229.2	4792.3	4072.5	3139.8	2546.7	2592.0	2843.3	2940.6	3493.0
40°	5530.3	5611.8	5568.8	5428.5	4661.0	3660.5	2859.1	2752.7	3049.3	3232.6	3837.0
42.5°	5786.1	5747.6	6001.2	5872.2	5430.7	4317.0	3406.9	3135.3	3536.0	3712.5	4353.2
45°	5922.0	6069.1	6261.5	6426.8	6143.8	5136.4	4122.3	3812.1	4280.7	4504.9	5120.6
47.5°	6270.6	6329.4	6641.8	6850.1	6723.3	6073.6	5208.9	4801.4	5217.9	5571.1	5998.9
50°	6474.3	6395.1	6832.0	7148.9	7221.3	6850.1	6182.3	5865.4	6331.7	6782.2	6820.7
52.5°	6295.5	6521.8	6958.7	7526.9	7728.4	7542.8	7325.5	7187.4	7515.6	7932.2	7746.5
55°	5668.4	5822.3	6886.3	7941.2	8590.9	8504.9	8706.4	8615.8	8946.3	9387.7	8828.6
57.5°	5163.6	5356.0	6290.9	8156.3	9394.5	9648.1	9901.6	9845.0	10243.4	10752.8	9745.4
60°	4848.9	4959.9	5860.8	8101.9	9869.9	10829.8	11402.5	11004.1	11653.8	12043.1	10463.0
62.5°	4303.4	4373.6	5233.8	7382.1	10012.5	11665.1	12636.2	12095.2	12658.9	13134.2	10979.2
65°	3449.9	3640.1	4350.9	6304.5	9070.8	11819.0	13405.9	12769.8	13315.3	13627.7	11135.4
66°	3139.8	3277.9	3929.9	5734.1	8534.3	11563.2	13276.9	12910.1	13410.4	13695.7	10895.4
67.5°	2605.6	2725.5	3243.9	4921.4	7436.4	10999.5	13367.4	12815.1	13482.9	13308.6	10573.9
70°	1725.0	1801.9	2218.5	3327.7	5179.4	8998.4	12398.5	12072.5	11853.0	11198.7	8267.2
72.5°	805.9	916.8	1385.4	2017.0	3037.9	6295.5	10109.9	9673.0	8312.5	7266.6	5215.7
75°	364.5	414.3	760.6	1156.8	1362.8	3262.1	6521.8	5890.3	4138.1	3436.4	2284.1
77.5°	196.9	224.1	371.3	550.1	495.8	1143.2	3228.1	2684.8	1303.9	955.3	663.3
80°	151.7	178.8	310.1	314.7	183.4	296.6	1199.8	830.8	326.0	246.7	158.5
82.5°	79.2	113.2	244.5	203.7	92.8	120.0	371.3	230.9	101.9	81.5	67.9
85°	31.7	49.8	138.1	135.8	54.3	40.7	104.1	70.2	40.7	34.0	31.7
87.5°	2.3	2.3	74.7	52.1	34.0	11.3	15.8	15.8	20.4	18.1	22.6
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°	2399.6	2399.6	2399.6	2399.6	2399.6	2399.6	2399.6	2399.6	2399.6	2399.6	2399.6
2.5°	2458.4	2485.6	2490.1	2564.8	2580.7	2564.8	2605.6	2598.8	2616.9	2603.3	2578.4
5°	2515.0	2553.5	2628.2	2684.8	2684.8	2639.5	2603.3	2555.8	2485.6	2467.5	2453.9
7.5°	2612.4	2734.6	2802.5	2766.3	2693.9	2524.1	2288.6	2116.6	1971.7	1917.4	1892.5
10°	2784.4	2852.3	2931.5	2784.4	2483.3	2123.4	1727.2	1466.9	1263.2	1217.9	1183.9
12.5°	2895.3	3004.0	3049.3	2684.8	2094.0	1557.5	1127.3	833.1	690.4	581.8	563.7
15°	3040.2	3164.7	3071.9	2415.4	1650.3	1020.9	584.0	364.5	296.6	278.4	278.4
17.5°	3139.8	3275.6	2979.1	2080.4	1170.4	543.3	289.8	251.3	246.7	249.0	244.5
20°	3314.1	3395.6	2838.7	1691.0	699.5	278.4	233.2	224.1	219.6	226.4	221.8
22.5°	3379.8	3454.5	2610.1	1224.7	314.7	185.6	174.3	167.5	172.0	169.8	167.5
25°	3375.2	3413.7	2234.3	701.8	92.8	72.4	65.6	65.6	61.1	63.4	61.1
27.5°	3409.2	3314.1	1813.3	208.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3427.3	3153.4	1290.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3436.4	3069.6	830.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3506.5	2902.1	355.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3554.1	2687.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3751.0	2619.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4006.8	2492.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4362.2	2304.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4833.1	2193.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5184.0	2019.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5629.9	1915.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6159.6	1919.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6641.8	1888.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6888.6	1614.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6836.5	1306.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6655.4	1025.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6530.9	907.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6152.9	726.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4896.5	498.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3114.9	305.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1435.2	140.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	450.5	86.0	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	117.7	54.3	18.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	61.1	38.5	15.8	6.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.5	15.8	6.8	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	34.0	9.1	4.5	4.5	2.3	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)