

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: P482976

Luminaire Tested: **IFLD-M-SA4D-827-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482976
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-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

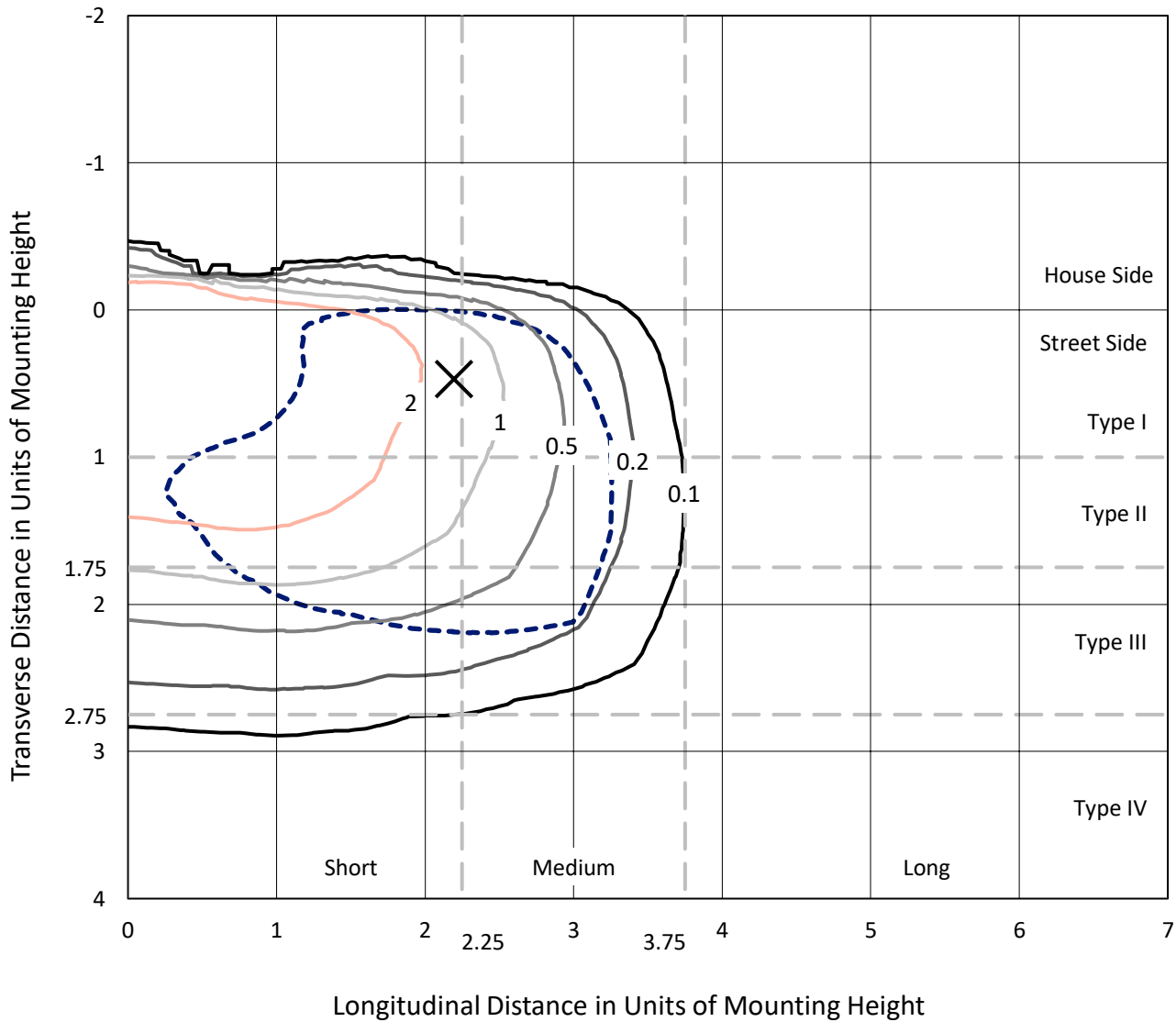
Lumens per Lamp: N/A
Luminaire Lumens: 16484.6 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 249.7
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

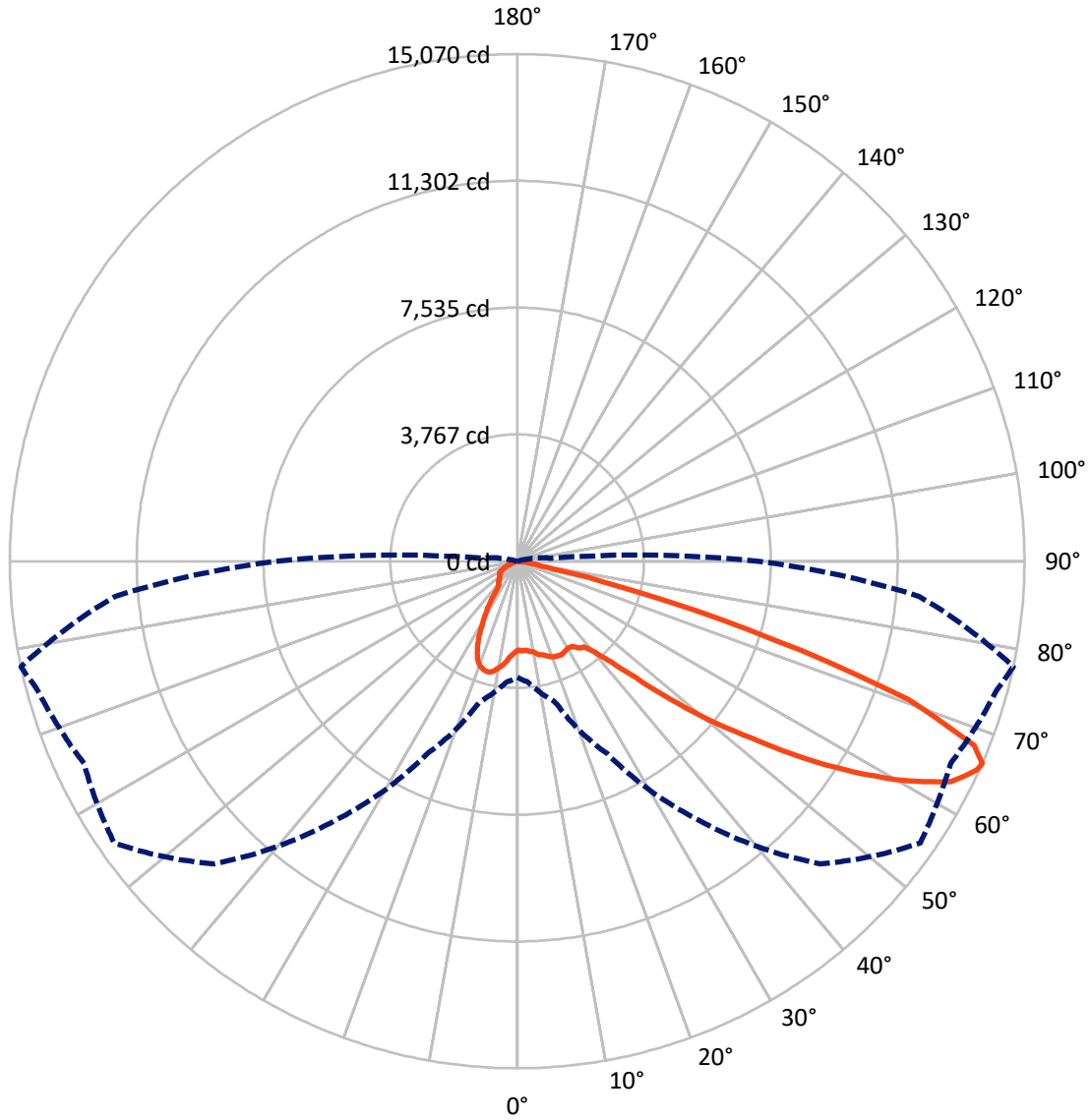
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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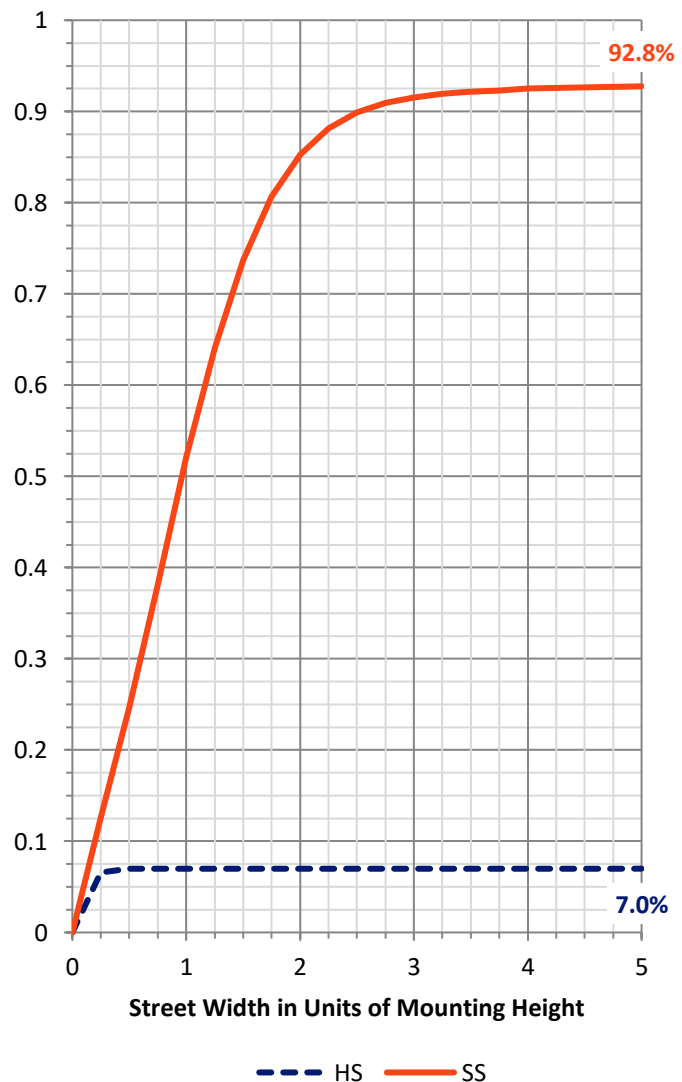
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1158.9	0.0	1158.9
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	15325.6	0.0	15325.6
	% Fixture	93.0	0.0	93.0
Total	Lumens	16484.6	0.0	16484.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	1.5
10°-20°	545.3	3.3
20°-30°	779.3	4.7
30°-40°	1334.0	8.1
40°-50°	2407.8	14.6
50°-60°	4117.6	25.0
60°-70°	5068.1	30.7
70°-80°	1916.0	11.6
80°-90°	74.8	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°	16484.6	100.0
0°-180°	16484.6	100.0

Coefficient of Utilization

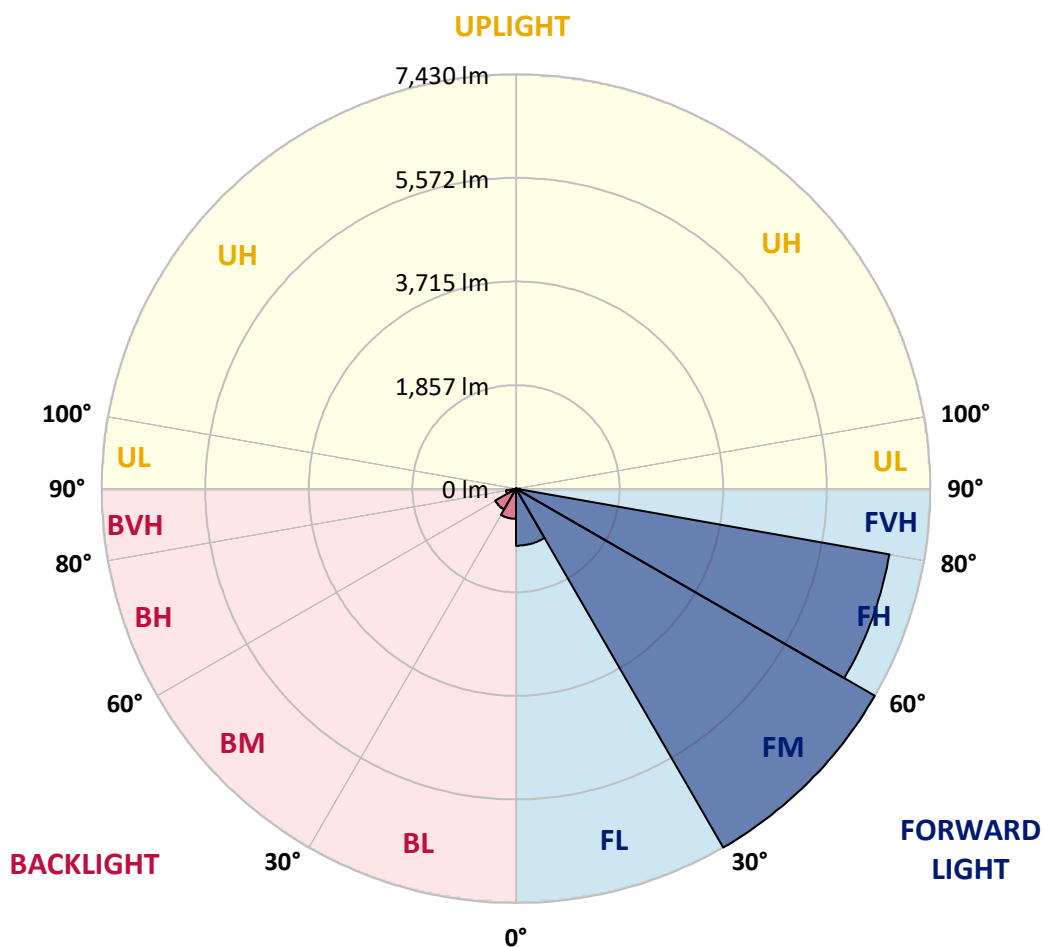


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1023.4	6.2			
FM (30°-60°)	7429.9	45.1			
FH (60°-80°)	6800.5	41.3			G3/7500
FVH (80°-90°)	71.8	0.4			G1/100
BL (0°-30°)	542.8	3.3	B2/1000		
BM (30°-60°)	429.5	2.6	B1/1000		
BH (60°-80°)	183.6	1.1	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2640.3	2640.3	2640.3	2640.3	2640.3	2640.3	2640.3	2640.3	2640.3	2640.3	2640.3
2.5°	2428.6	2406.2	2428.6	2461.0	2478.4	2493.3	2545.6	2590.5	2637.8	2670.2	2660.2
5°	2251.7	2294.1	2299.0	2309.0	2336.4	2426.1	2456.0	2533.2	2650.3	2660.2	2705.1
7.5°	2112.2	2099.8	2132.2	2196.9	2266.7	2319.0	2406.2	2540.7	2662.7	2705.1	2792.2
10°	1910.5	1935.4	1970.3	2035.0	2119.7	2249.2	2403.7	2553.1	2727.5	2742.4	2904.3
12.5°	1800.9	1776.0	1830.8	1898.0	2042.5	2162.1	2351.4	2530.7	2767.3	2849.5	3036.3
15°	1711.2	1723.7	1776.0	1820.8	1940.4	2092.3	2314.0	2585.5	2834.6	2891.9	3175.8
17.5°	1673.8	1666.4	1706.2	1751.1	1898.0	2069.9	2299.0	2588.0	2894.4	2969.1	3270.5
20°	1691.3	1706.2	1693.8	1736.1	1828.3	2002.6	2321.5	2635.3	2939.2	3041.3	3372.6
22.5°	1965.3	1945.3	1845.7	1766.0	1771.0	1975.2	2304.0	2665.2	2979.0	3061.2	3442.3
25°	2680.1	2573.0	2326.4	2020.1	1818.3	1900.5	2284.1	2655.2	2971.6	3073.7	3484.7
27.5°	3400.0	3307.8	3066.2	2590.5	2010.1	1870.6	2214.4	2662.7	2934.2	3028.9	3414.9
30°	4159.7	4209.5	3850.8	3285.4	2513.3	2035.0	2169.5	2622.9	2909.3	2989.0	3429.9
32.5°	4939.3	4919.4	4702.7	4090.0	3233.1	2398.7	2241.8	2662.7	2941.7	3018.9	3517.1
35°	5549.6	5479.9	5260.7	4707.7	3828.4	2946.7	2490.8	2852.0	3083.7	3175.8	3641.6
37.5°	5851.0	5880.9	5753.8	5273.1	4481.0	3454.8	2802.2	2852.0	3128.5	3235.6	3843.4
40°	6085.1	6174.8	6127.5	5973.0	5128.6	4027.7	3145.9	3028.9	3355.2	3556.9	4222.0
42.5°	6366.6	6324.2	6603.2	6461.2	5975.5	4750.0	3748.7	3449.8	3890.7	4085.0	4789.9
45°	6516.0	6677.9	6889.7	7071.5	6760.1	5651.7	4535.8	4194.6	4710.2	4956.8	5634.3
47.5°	6899.6	6964.4	7308.1	7537.3	7397.8	6682.9	5731.4	5283.1	5741.4	6130.0	6600.7
50°	7123.8	7036.6	7517.4	7866.1	7945.8	7537.3	6802.5	6453.8	6966.9	7462.6	7504.9
52.5°	6927.0	7176.1	7656.8	8282.0	8503.7	8299.5	8060.4	7908.4	8269.6	8727.9	8523.7
55°	6237.1	6406.4	7577.1	8737.9	9452.7	9358.1	9579.8	9480.1	9843.8	10329.5	9714.3
57.5°	5681.6	5893.3	6922.0	8974.5	10337.0	10616.0	10894.9	10832.7	11271.1	11831.5	10723.1
60°	5335.4	5457.4	6448.8	8914.7	10860.1	11916.2	12546.4	12108.0	12822.8	13251.3	11512.7
62.5°	4735.1	4812.3	5758.8	8122.6	11017.0	12835.3	13903.9	13308.6	13928.8	14451.9	12080.6
65°	3796.0	4005.3	4787.4	6937.0	9980.8	13004.7	14750.8	14050.8	14651.1	14994.9	12252.4
66°	3454.8	3606.7	4324.1	6309.3	9390.5	12723.2	14608.8	14205.3	14755.7	15069.6	11988.4
67.5°	2867.0	2999.0	3569.4	5415.1	8182.4	12103.0	14708.4	14100.7	14835.4	14643.7	11634.7
70°	1898.0	1982.7	2441.0	3661.5	5699.0	9901.1	13642.3	13283.7	13042.0	12322.2	9096.6
72.5°	886.7	1008.8	1524.4	2219.3	3342.7	6927.0	11124.1	10643.4	9146.4	7995.6	5738.9
75°	401.0	455.8	836.9	1272.8	1499.5	3589.3	7176.1	6481.2	4553.3	3781.1	2513.3
77.5°	216.7	246.6	408.5	605.3	545.5	1257.9	3551.9	2954.1	1434.7	1051.1	729.8
80°	166.9	196.8	341.2	346.2	201.8	326.3	1320.1	914.1	358.7	271.5	174.4
82.5°	87.2	124.5	269.0	224.2	102.1	132.0	408.5	254.1	112.1	89.7	74.7
85°	34.9	54.8	151.9	149.5	59.8	44.8	114.6	77.2	44.8	37.4	34.9
87.5°	2.5	2.5	82.2	57.3	37.4	12.5	17.4	17.4	22.4	19.9	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°	2640.3	2640.3	2640.3	2640.3	2640.3	2640.3	2640.3	2640.3	2640.3	2640.3	2640.3
2.5°	2705.1	2734.9	2739.9	2822.1	2839.6	2822.1	2867.0	2859.5	2879.4	2864.5	2837.1
5°	2767.3	2809.7	2891.9	2954.1	2954.1	2904.3	2864.5	2812.2	2734.9	2715.0	2700.1
7.5°	2874.4	3008.9	3083.7	3043.8	2964.1	2777.3	2518.2	2328.9	2169.5	2109.7	2082.3
10°	3063.7	3138.5	3225.6	3063.7	2732.5	2336.4	1900.5	1614.1	1389.9	1340.1	1302.7
12.5°	3185.8	3305.3	3355.2	2954.1	2304.0	1713.7	1240.4	916.6	759.7	640.1	620.2
15°	3345.2	3482.2	3380.1	2657.7	1815.8	1123.4	642.6	401.0	326.3	306.4	306.4
17.5°	3454.8	3604.2	3277.9	2289.1	1287.8	597.8	318.8	276.5	271.5	274.0	269.0
20°	3646.6	3736.3	3123.5	1860.7	769.7	306.4	256.6	246.6	241.6	249.1	244.1
22.5°	3718.8	3801.0	2871.9	1347.5	346.2	204.2	191.8	184.3	189.3	186.8	184.3
25°	3713.8	3756.2	2458.5	772.2	102.1	79.7	72.2	72.2	67.3	69.7	67.3
27.5°	3751.2	3646.6	1995.2	229.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3771.1	3469.7	1419.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3781.1	3377.6	914.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3858.3	3193.3	391.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3910.6	2956.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4127.3	2881.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4408.8	2742.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4799.9	2535.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5317.9	2413.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5704.0	2221.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6194.7	2107.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6777.6	2112.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7308.1	2077.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7579.6	1776.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7522.3	1437.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7323.1	1128.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7186.1	998.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6770.1	799.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5387.7	548.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3427.4	336.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1579.2	154.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	495.7	94.7	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	129.5	59.8	19.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	67.3	42.3	17.4	7.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.3	17.4	7.5	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	37.4	10.0	5.0	5.0	2.5	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)