

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: P482744

Luminaire Tested: **IFLD-L-SA7A-727-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482744
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-727-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

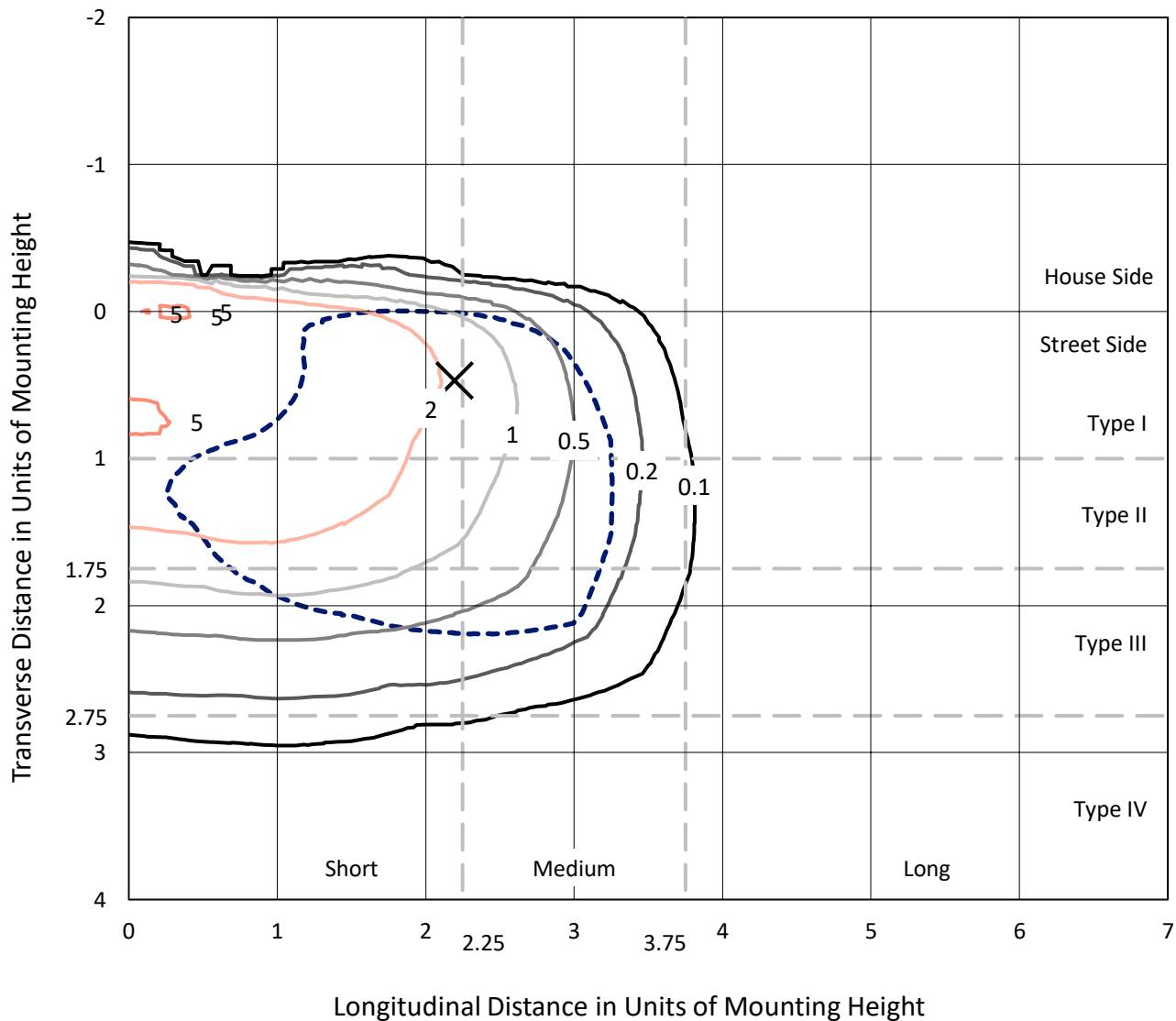
Lumens per Lamp: N/A
Luminaire Lumens: 18763.9 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (A_{in}): 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

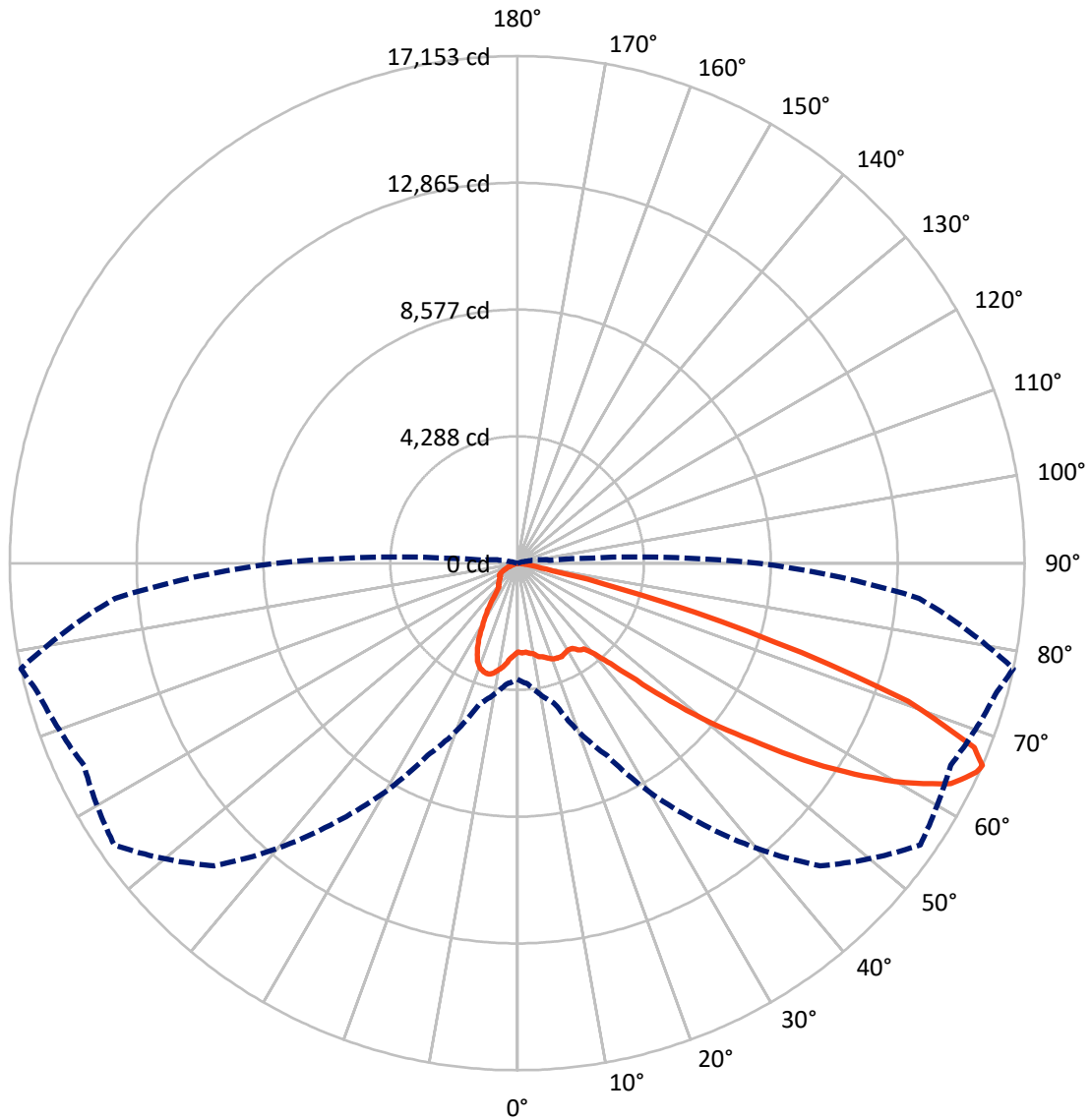
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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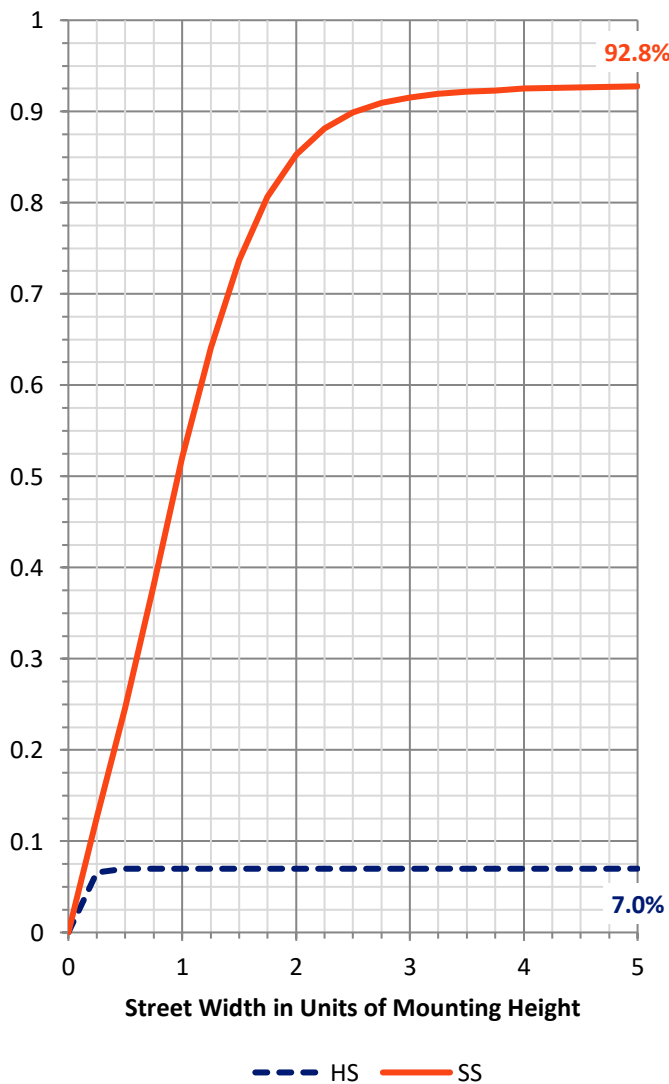
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1319.2	0.0	1319.2
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	17444.7	0.0	17444.7
	% Fixture	93.0	0.0	93.0
Total	Lumens	18763.9	0.0	18763.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.9	1.5
10°-20°	620.7	3.3
20°-30°	887.1	4.7
30°-40°	1518.5	8.1
40°-50°	2740.7	14.6
50°-60°	4687.0	25.0
60°-70°	5768.9	30.7
70°-80°	2180.9	11.6
80°-90°	85.2	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°	18763.9	100.0
0°-180°	18763.9	100.0

Coefficient of Utilization

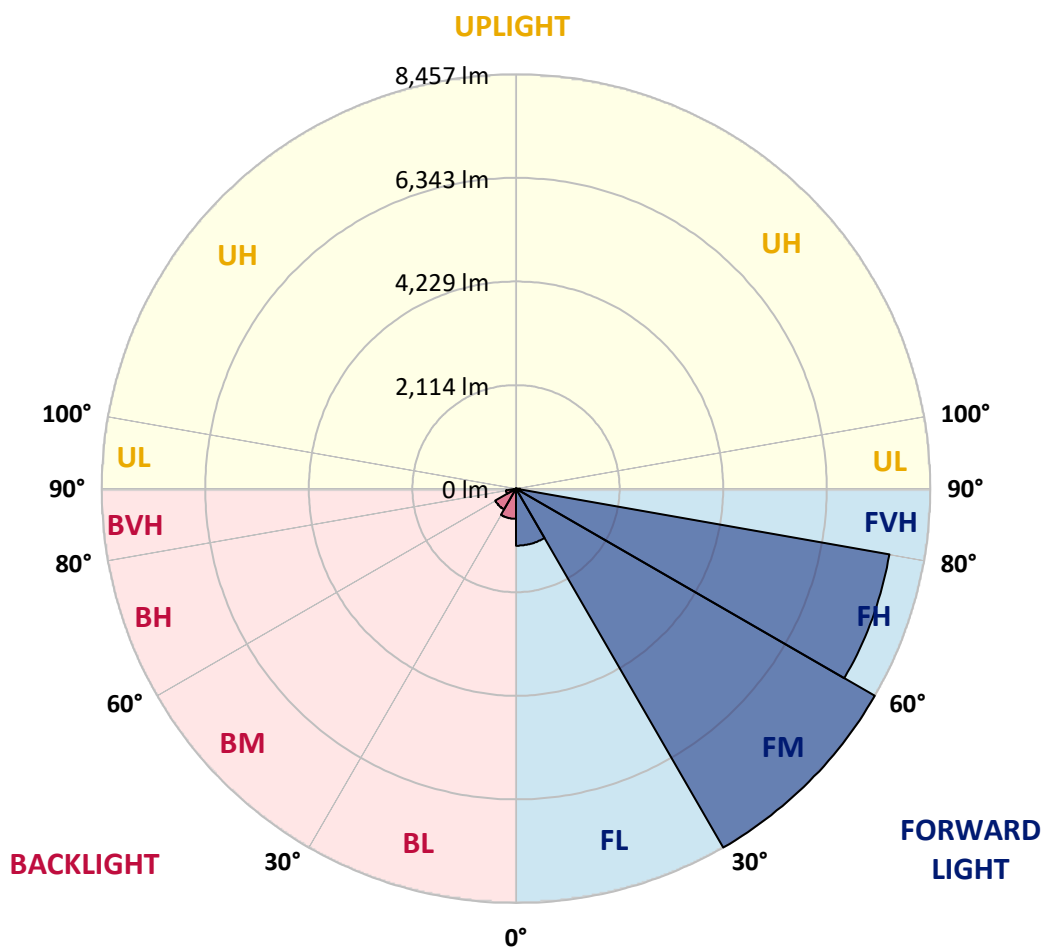


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1164.9	6.2			
FM (30°-60°)	8457.3	45.1			
FH (60°-80°)	7740.8	41.3			G4/12000
FVH (80°-90°)	81.8	0.4			G1/100
BL (0°-30°)	617.8	3.3	B2/1000		
BM (30°-60°)	488.9	2.6	B1/1000		
BH (60°-80°)	209.0	1.1	B1/500		G1/500
BVH (80°-90°)	3.4	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4
2.5°	2764.4	2738.9	2764.4	2801.2	2821.1	2838.1	2897.6	2948.7	3002.5	3039.4	3028.1
5°	2563.1	2611.3	2616.9	2628.3	2659.5	2761.5	2795.6	2883.5	3016.7	3028.1	3079.1
7.5°	2404.3	2390.1	2427.0	2500.7	2580.1	2639.6	2738.9	2892.0	3030.9	3079.1	3178.3
10°	2174.6	2203.0	2242.7	2316.4	2412.8	2560.2	2736.0	2906.1	3104.6	3121.6	3305.9
12.5°	2049.9	2021.5	2083.9	2160.5	2324.9	2461.0	2676.5	2880.6	3150.0	3243.5	3456.2
15°	1947.8	1962.0	2021.5	2072.6	2208.7	2381.6	2634.0	2943.0	3226.5	3291.7	3614.9
17.5°	1905.3	1896.8	1942.1	1993.2	2160.5	2356.1	2616.9	2945.8	3294.6	3379.6	3722.7
20°	1925.1	1942.1	1928.0	1976.2	2081.1	2279.5	2642.5	2999.7	3345.6	3461.8	3838.9
22.5°	2237.0	2214.3	2100.9	2010.2	2015.9	2248.4	2622.6	3033.7	3391.0	3484.5	3918.3
25°	3050.7	2928.8	2648.1	2299.4	2069.7	2163.3	2599.9	3022.4	3382.5	3498.7	3966.5
27.5°	3870.1	3765.2	3490.2	2948.7	2288.1	2129.3	2520.5	3030.9	3339.9	3447.7	3887.1
30°	4734.9	4791.6	4383.3	3739.7	2860.8	2316.4	2469.5	2985.5	3311.6	3402.3	3904.1
32.5°	5622.3	5599.6	5353.0	4655.5	3680.2	2730.3	2551.7	3030.9	3348.4	3436.3	4003.4
35°	6316.9	6237.6	5988.1	5358.6	4357.8	3354.1	2835.3	3246.4	3510.0	3614.9	4145.1
37.5°	6660.0	6694.0	6549.4	6002.2	5100.6	3932.5	3189.7	3246.4	3561.1	3683.0	4374.8
40°	6926.5	7028.6	6974.7	6798.9	5837.8	4584.6	3580.9	3447.7	3819.1	4048.7	4805.8
42.5°	7246.9	7198.7	7516.3	7354.6	6801.8	5406.8	4267.1	3926.8	4428.7	4649.8	5452.2
45°	7417.0	7601.3	7842.3	8049.3	7694.9	6433.2	5163.0	4774.6	5361.5	5642.2	6413.3
47.5°	7853.7	7927.4	8318.6	8579.5	8420.7	7607.0	6523.9	6013.6	6535.3	6977.6	7513.4
50°	8108.8	8009.6	8556.8	8953.7	9044.5	8579.5	7743.1	7346.1	7930.2	8494.4	8542.6
52.5°	7884.8	8168.4	8715.6	9427.2	9679.6	9447.1	9174.9	9001.9	9413.0	9934.7	9702.2
55°	7099.5	7292.3	8624.8	9946.1	10759.8	10652.0	10904.4	10791.0	11204.9	11757.8	11057.5
57.5°	6467.2	6708.2	7879.2	10215.4	11766.3	12083.9	12401.4	12330.5	12829.5	13467.5	12205.8
60°	6073.1	6212.0	7340.5	10147.4	12361.7	13563.9	14281.2	13782.2	14595.9	15083.6	13104.5
62.5°	5389.8	5477.7	6555.1	9245.8	12540.3	14610.1	15826.4	15148.8	15854.7	16450.1	13751.0
65°	4320.9	4559.1	5449.4	7896.2	11360.9	14802.9	16790.4	15993.7	16677.0	17068.2	13946.6
66°	3932.5	4105.4	4922.0	7181.7	10688.9	14482.5	16628.8	16169.5	16796.0	17153.3	13646.1
67.5°	3263.4	3413.6	4062.9	6163.8	9313.8	13776.5	16742.2	16050.4	16886.8	16668.5	13243.5
70°	2160.5	2256.9	2778.5	4167.8	6487.1	11270.1	15528.7	15120.4	14845.4	14026.0	10354.3
72.5°	1009.4	1148.3	1735.2	2526.2	3804.9	7884.8	12662.2	12115.0	10411.1	9101.2	6532.4
75°	456.5	518.9	952.6	1448.8	1706.8	4085.6	8168.4	7377.3	5182.8	4303.9	2860.8
77.5°	246.7	280.7	465.0	689.0	620.9	1431.8	4043.1	3362.6	1633.1	1196.5	830.7
80°	190.0	224.0	388.4	394.1	229.7	371.4	1502.7	1040.5	408.3	309.0	198.5
82.5°	99.2	141.8	306.2	255.2	116.2	150.3	465.0	289.2	127.6	102.1	85.1
85°	39.7	62.4	173.0	170.1	68.0	51.0	130.4	87.9	51.0	42.5	39.7
87.5°	2.8	2.8	93.6	65.2	42.5	14.2	19.8	19.8	25.5	22.7	28.4
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°	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4
2.5°	3079.1	3113.1	3118.8	3212.3	3232.2	3212.3	3263.4	3254.9	3277.6	3260.5	3229.4
5°	3150.0	3198.2	3291.7	3362.6	3362.6	3305.9	3260.5	3201.0	3113.1	3090.4	3073.4
7.5°	3271.9	3425.0	3510.0	3464.7	3374.0	3161.3	2866.4	2651.0	2469.5	2401.5	2370.3
10°	3487.4	3572.4	3671.7	3487.4	3110.3	2659.5	2163.3	1837.2	1582.1	1525.4	1482.8
12.5°	3626.3	3762.4	3819.1	3362.6	2622.6	1950.7	1412.0	1043.4	864.8	728.7	706.0
15°	3807.7	3963.7	3847.4	3025.2	2066.9	1278.7	731.5	456.5	371.4	348.7	348.7
17.5°	3932.5	4102.6	3731.2	2605.6	1465.8	680.5	362.9	314.7	309.0	311.9	306.2
20°	4150.8	4252.9	3555.4	2117.9	876.1	348.7	292.0	280.7	275.0	283.5	277.9
22.5°	4233.0	4326.6	3269.0	1533.9	394.1	232.5	218.3	209.8	215.5	212.6	209.8
25°	4227.4	4275.6	2798.4	878.9	116.2	90.7	82.2	82.2	76.6	79.4	76.6
27.5°	4269.9	4150.8	2271.0	260.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4292.6	3949.5	1616.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4303.9	3844.6	1040.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4391.8	3634.8	445.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4451.3	3365.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4698.0	3280.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5018.4	3121.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5463.5	2886.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6053.3	2747.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6492.7	2529.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7051.3	2398.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7714.7	2404.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8318.6	2364.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8627.7	2021.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8562.5	1635.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8335.6	1284.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8179.7	1136.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7706.2	910.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6132.7	623.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3901.3	382.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1797.6	175.8	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	564.2	107.7	22.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	147.4	68.0	22.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	76.6	48.2	19.8	8.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.2	19.8	8.5	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	42.5	11.3	5.7	5.7	2.8	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)