

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: P482761

Luminaire Tested: **IFLD-S-SA3D-730-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482761
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

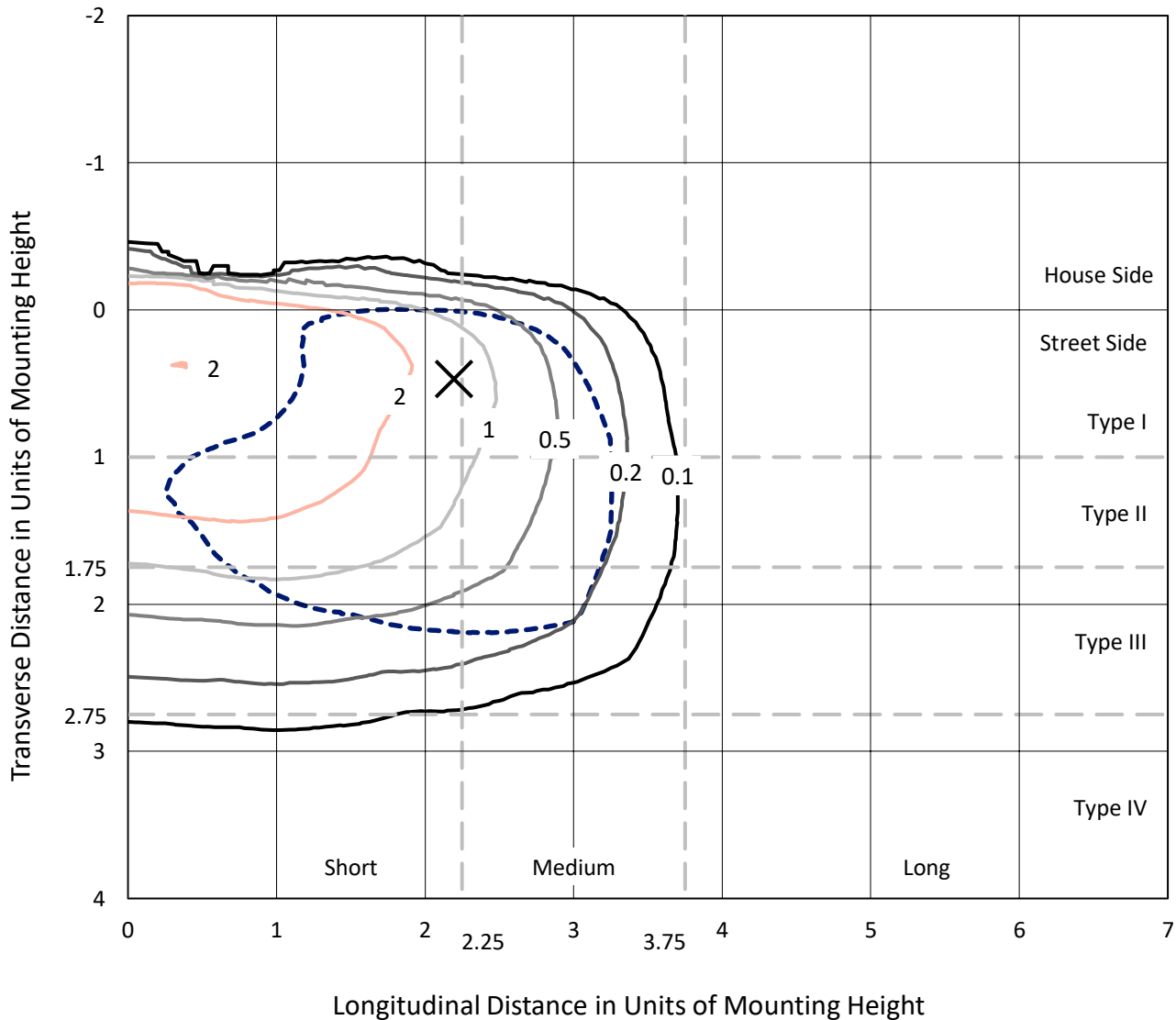
Lumens per Lamp: N/A
Luminaire Lumens: 15213.3 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
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

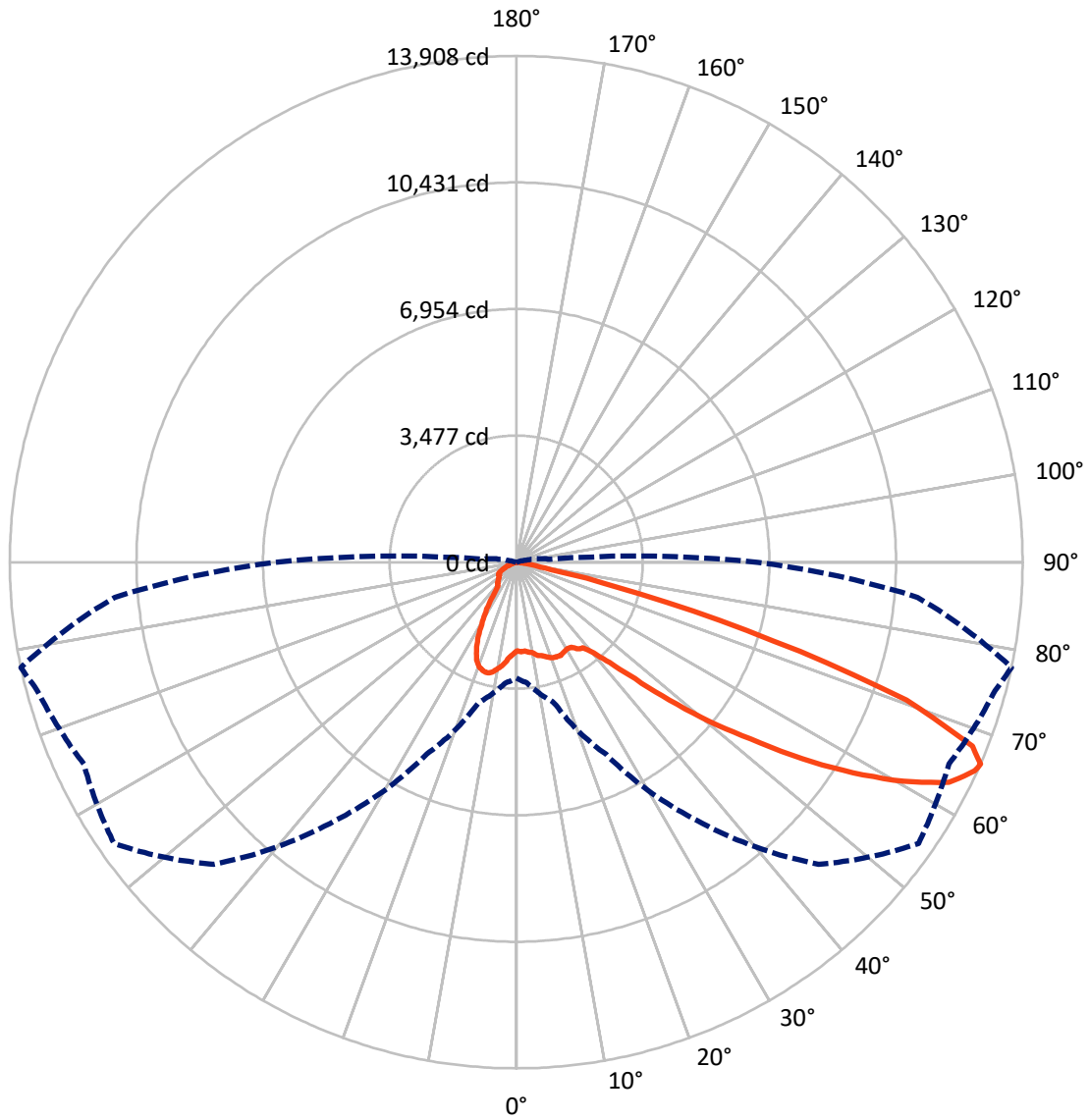
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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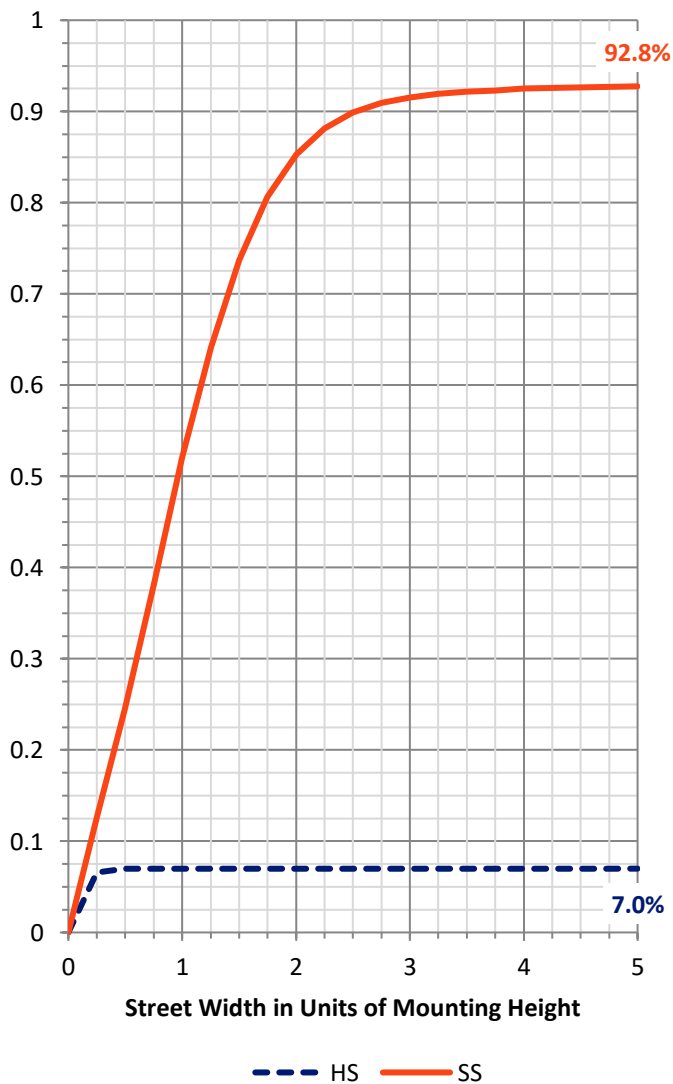
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1069.6	0.0	1069.6
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	14143.7	0.0	14143.7
	% Fixture	93.0	0.0	93.0
Total	Lumens	15213.3	0.0	15213.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.9	1.5
10°-20°	503.2	3.3
20°-30°	719.2	4.7
30°-40°	1231.2	8.1
40°-50°	2222.1	14.6
50°-60°	3800.1	25.0
60°-70°	4677.2	30.7
70°-80°	1768.3	11.6
80°-90°	69.1	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°	15213.3	100.0
0°-180°	15213.3	100.0

Coefficient of Utilization

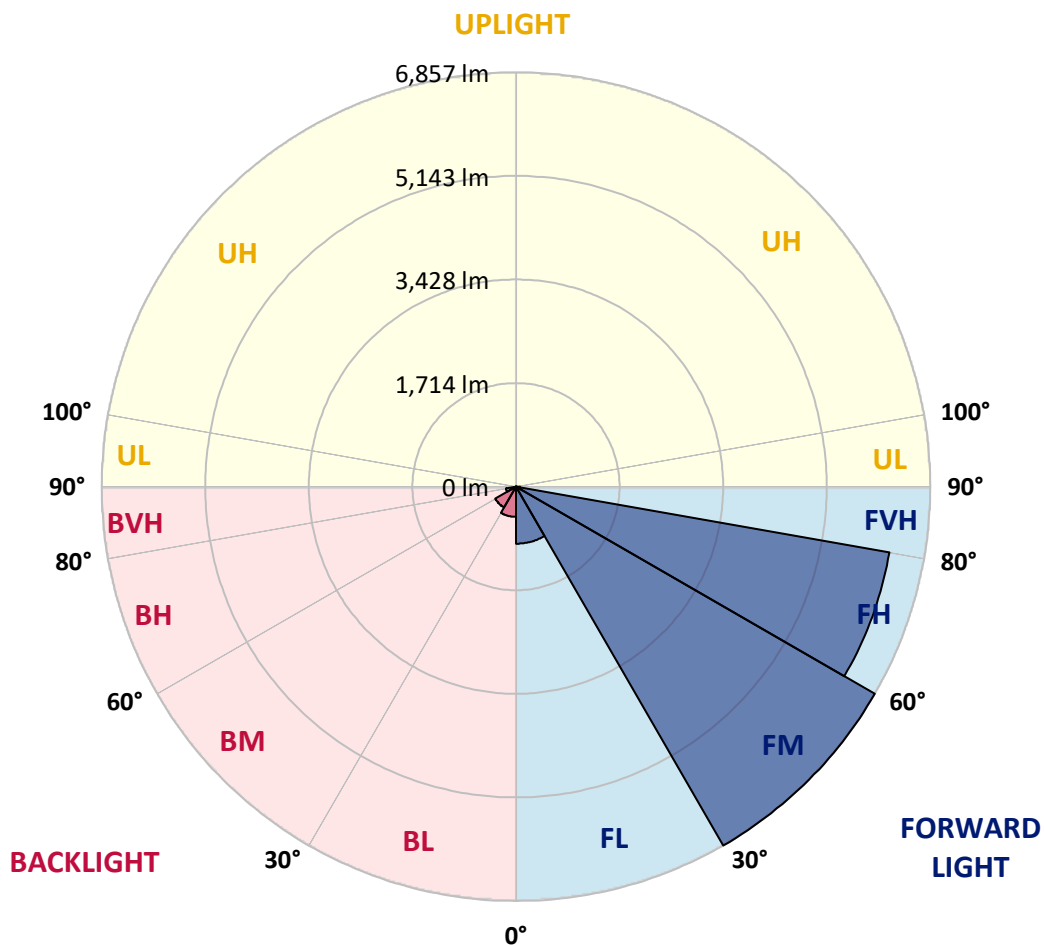


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	944.5	6.2			
FM (30°-60°)	6856.9	45.1			
FH (60°-80°)	6276.0	41.3			G3/7500
FVH (80°-90°)	66.3	0.4			G1/100
BL (0°-30°)	500.9	3.3	B2/1000		
BM (30°-60°)	396.4	2.6	B1/1000		
BH (60°-80°)	169.5	1.1	B1/500		G1/500
BVH (80°-90°)	2.8	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°	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7
2.5°	2241.3	2220.6	2241.3	2271.2	2287.3	2301.1	2349.3	2390.7	2434.4	2464.3	2455.1
5°	2078.1	2117.2	2121.8	2130.9	2156.2	2239.0	2266.6	2337.8	2445.9	2455.1	2496.4
7.5°	1949.3	1937.8	1967.7	2027.5	2091.9	2140.1	2220.6	2344.7	2457.4	2496.4	2576.9
10°	1763.1	1786.1	1818.3	1878.1	1956.2	2075.8	2218.3	2356.2	2517.1	2530.9	2680.3
12.5°	1662.0	1639.0	1689.6	1751.7	1885.0	1995.3	2170.0	2335.5	2553.9	2629.8	2802.2
15°	1579.2	1590.7	1639.0	1680.4	1790.7	1931.0	2135.5	2386.1	2616.0	2668.9	2930.9
17.5°	1544.8	1537.9	1574.6	1616.0	1751.7	1910.3	2121.8	2388.4	2671.2	2740.1	3018.3
20°	1560.9	1574.6	1563.2	1602.2	1687.3	1848.2	2142.4	2432.1	2712.5	2806.8	3112.5
22.5°	1813.7	1795.3	1703.4	1629.8	1634.4	1822.9	2126.3	2459.7	2749.3	2825.2	3176.9
25°	2473.5	2374.6	2147.0	1864.3	1678.1	1753.9	2108.0	2450.5	2742.4	2836.7	3216.0
27.5°	3137.8	3052.7	2829.8	2390.7	1855.1	1726.4	2043.6	2457.4	2707.9	2795.3	3151.6
30°	3838.9	3884.9	3553.9	3032.1	2319.4	1878.1	2002.2	2420.6	2684.9	2758.5	3165.4
32.5°	4558.4	4540.0	4340.0	3774.6	2983.8	2213.7	2068.9	2457.4	2714.8	2786.1	3245.8
35°	5121.6	5057.3	4855.0	4344.6	3533.2	2719.4	2298.8	2632.1	2845.9	2930.9	3360.8
37.5°	5399.8	5427.4	5310.1	4866.5	4135.5	3188.4	2586.1	2632.1	2887.2	2986.1	3547.0
40°	5615.9	5698.6	5654.9	5512.4	4733.1	3717.1	2903.3	2795.3	3096.4	3282.6	3896.4
42.5°	5875.6	5836.5	6094.0	5963.0	5514.7	4383.7	3459.6	3183.8	3590.7	3770.0	4420.5
45°	6013.5	6163.0	6358.4	6526.2	6238.8	5215.9	4186.0	3871.1	4346.9	4574.5	5199.8
47.5°	6367.5	6427.3	6744.5	6956.0	6827.3	6167.6	5289.4	4875.7	5298.6	5657.2	6091.7
50°	6574.4	6494.0	6937.6	7259.5	7333.0	6956.0	6277.9	5956.1	6429.6	6887.1	6926.1
52.5°	6392.8	6622.7	7066.4	7643.4	7847.9	7659.4	7438.8	7298.5	7631.9	8054.8	7866.3
55°	5756.1	5912.4	6992.8	8064.0	8723.8	8636.4	8841.0	8749.1	9084.7	9532.9	8965.1
57.5°	5243.5	5438.9	6388.2	8282.4	9539.8	9797.3	10054.8	9997.3	10401.9	10919.1	9896.1
60°	4923.9	5036.6	5951.5	8227.2	10022.6	10997.2	11578.8	11174.2	11834.0	12229.4	10624.8
62.5°	4369.9	4441.2	5314.7	7496.2	10167.4	11845.5	12831.6	12282.2	12854.6	13337.4	11149.0
65°	3503.3	3696.4	4418.2	6402.0	9211.1	12001.8	13613.2	12967.3	13521.3	13838.5	11307.6
66°	3188.4	3328.6	3990.6	5822.7	8666.3	11742.0	13482.2	13109.8	13617.8	13907.5	11063.9
67.5°	2645.9	2767.7	3294.1	4997.5	7551.4	11169.6	13574.1	13013.2	13691.4	13514.4	10737.5
70°	1751.7	1829.8	2252.8	3379.2	5259.5	9137.5	12590.3	12259.3	12036.3	11371.9	8395.0
72.5°	818.4	931.0	1406.8	2048.2	3084.9	6392.8	10266.2	9822.6	8441.0	7379.0	5296.3
75°	370.1	420.7	772.4	1174.7	1383.8	3312.5	6622.7	5981.4	4202.1	3489.5	2319.4
77.5°	200.0	227.6	377.0	558.6	503.4	1160.9	3278.0	2726.3	1324.1	970.1	673.5
80°	154.0	181.6	314.9	319.5	186.2	301.1	1218.3	843.6	331.0	250.6	160.9
82.5°	80.5	114.9	248.3	206.9	94.2	121.8	377.0	234.5	103.4	82.8	69.0
85°	32.2	50.6	140.2	137.9	55.2	41.4	105.7	71.3	41.4	34.5	32.2
87.5°	2.3	2.3	75.9	52.9	34.5	11.5	16.1	16.1	20.7	18.4	23.0
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°	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7	2436.7
2.5°	2496.4	2524.0	2528.6	2604.5	2620.6	2604.5	2645.9	2639.0	2657.4	2643.6	2618.3
5°	2553.9	2593.0	2668.9	2726.3	2726.3	2680.3	2643.6	2595.3	2524.0	2505.6	2491.8
7.5°	2652.8	2776.9	2845.9	2809.1	2735.5	2563.1	2324.0	2149.3	2002.2	1947.0	1921.8
10°	2827.5	2896.4	2976.9	2827.5	2521.7	2156.2	1753.9	1489.6	1282.7	1236.7	1202.2
12.5°	2940.1	3050.4	3096.4	2726.3	2126.3	1581.5	1144.8	845.9	701.1	590.8	572.4
15°	3087.2	3213.7	3119.4	2452.8	1675.8	1036.7	593.1	370.1	301.1	282.7	282.7
17.5°	3188.4	3326.3	3025.2	2112.6	1188.5	551.7	294.2	255.2	250.6	252.9	248.3
20°	3365.4	3448.1	2882.6	1717.2	710.3	282.7	236.8	227.6	223.0	229.9	225.3
22.5°	3432.0	3507.9	2650.5	1243.6	319.5	188.5	177.0	170.1	174.7	172.4	170.1
25°	3427.4	3466.5	2268.9	712.6	94.2	73.6	66.7	66.7	62.1	64.4	62.1
27.5°	3461.9	3365.4	1841.3	211.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3480.3	3202.2	1310.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3489.5	3117.1	843.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3560.8	2947.0	360.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3609.0	2728.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3809.0	2659.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4068.8	2530.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4429.7	2340.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4907.8	2227.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5264.1	2050.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5717.0	1944.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6254.9	1949.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6744.5	1917.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6995.1	1639.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6942.2	1326.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6758.3	1041.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6631.9	921.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6248.0	737.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4972.2	505.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3163.1	310.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1457.4	142.5	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	457.5	87.4	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	119.5	55.2	18.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.1	39.1	16.1	6.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.1	16.1	6.9	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	34.5	9.2	4.6	4.6	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)