

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: P482838

Luminaire Tested: **IFLD-S-SA3C-740-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482838
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

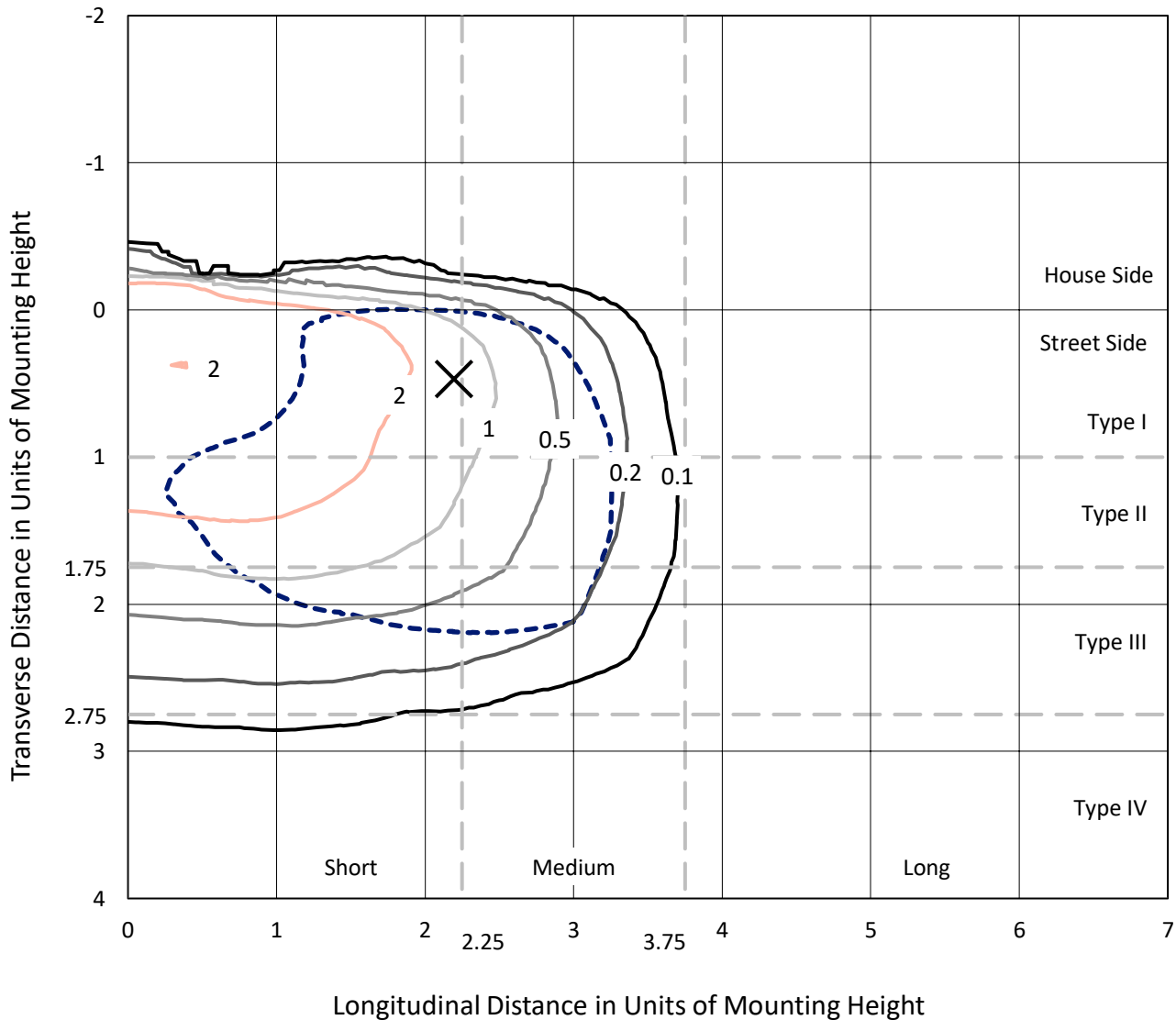
Lumens per Lamp: N/A
Luminaire Lumens: 15183.7 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.8
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

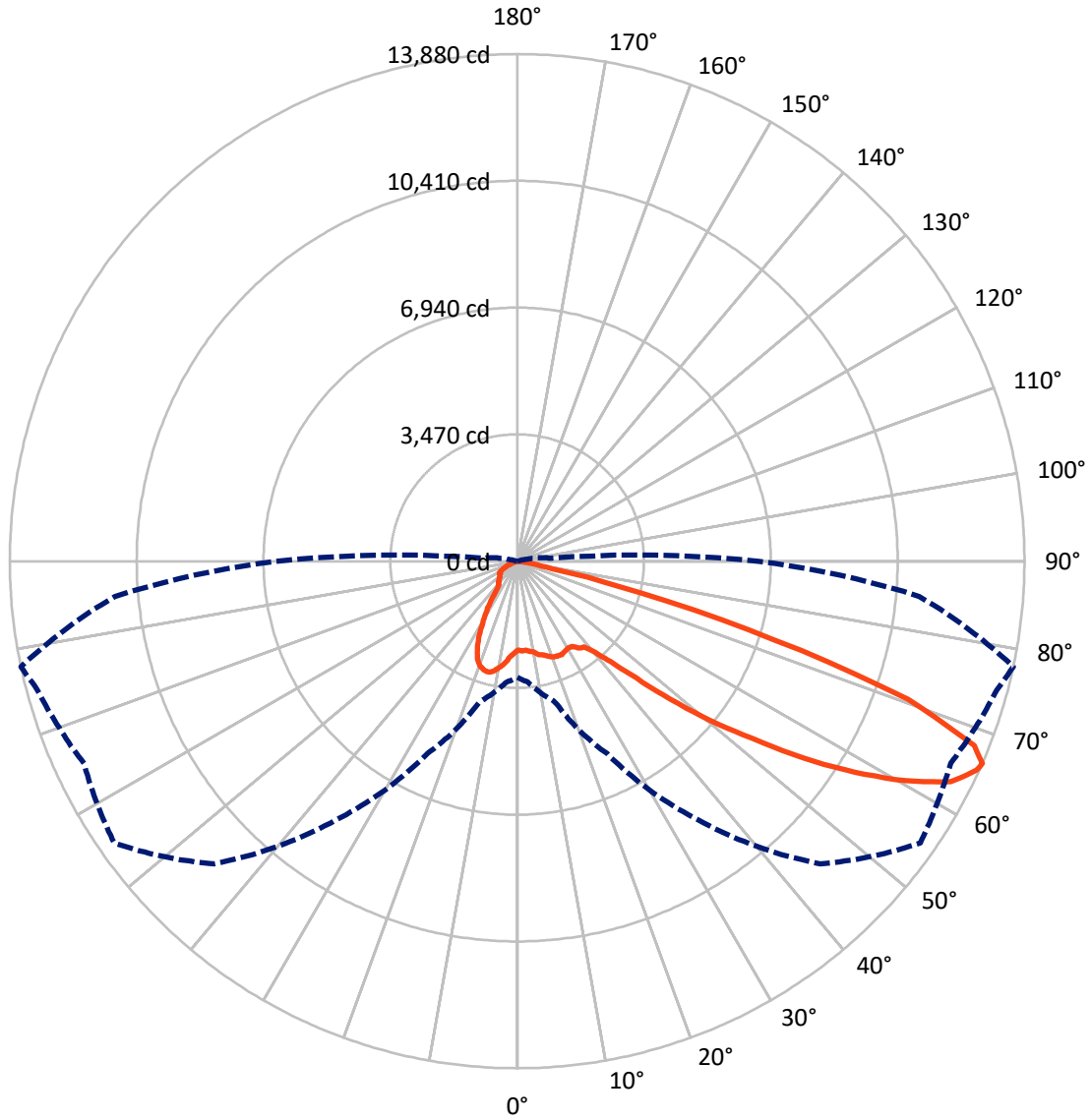
✕ Max cd
 - - - 1/2 Max cd



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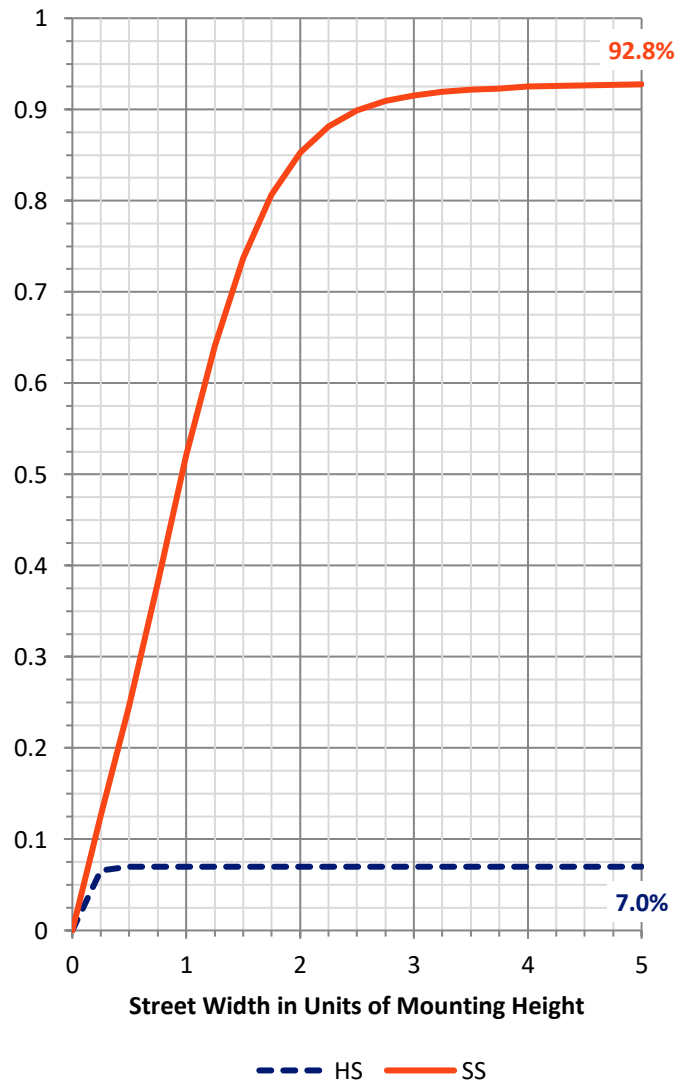
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1067.5	0.0	1067.5
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	14116.2	0.0	14116.2
	% Fixture	93.0	0.0	93.0
Total	Lumens	15183.7	0.0	15183.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	1.5
10°-20°	502.2	3.3
20°-30°	717.8	4.7
30°-40°	1228.8	8.1
40°-50°	2217.8	14.6
50°-60°	3792.7	25.0
60°-70°	4668.1	30.7
70°-80°	1764.8	11.6
80°-90°	68.9	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°	15183.7	100.0
0°-180°	15183.7	100.0

Coefficient of Utilization

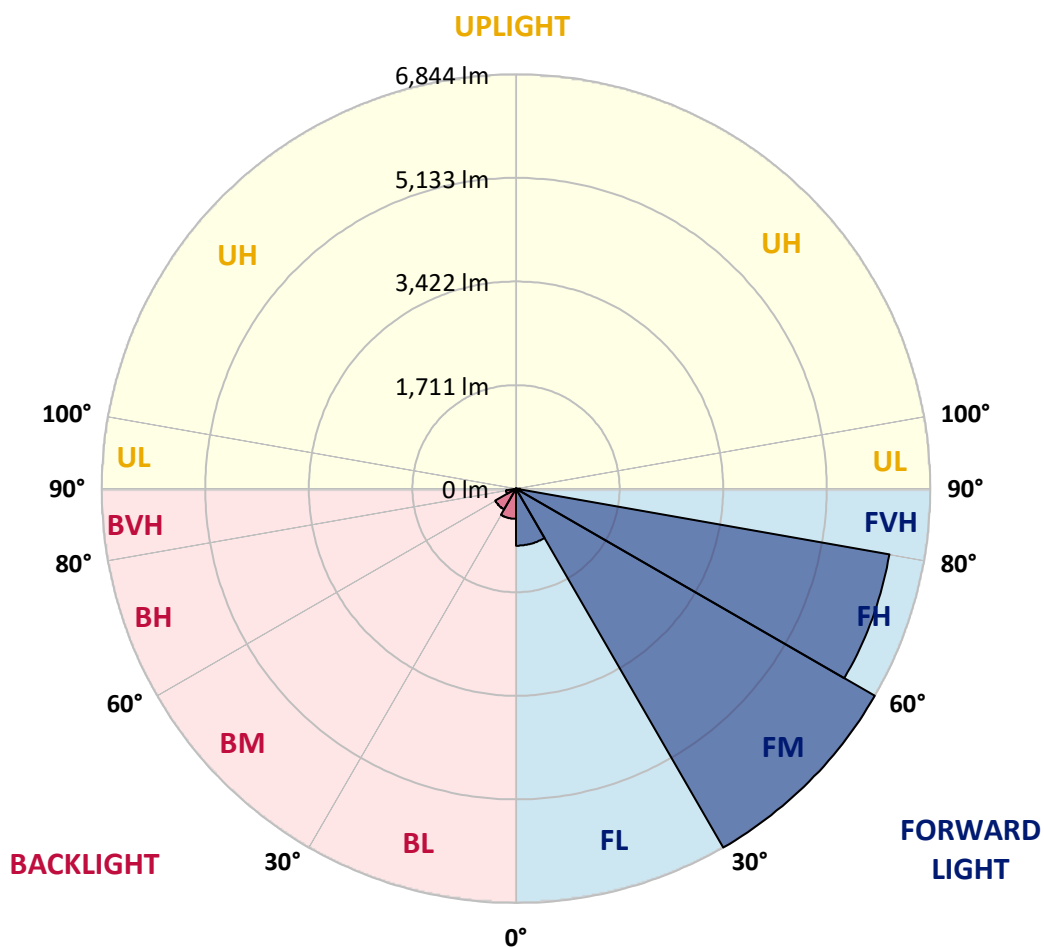


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	942.6	6.2			
FM (30°-60°)	6843.6	45.1			
FH (60°-80°)	6263.8	41.3			G3/7500
FVH (80°-90°)	66.2	0.4			G1/100
BL (0°-30°)	499.9	3.3	B1/500		
BM (30°-60°)	395.6	2.6	B1/1000		
BH (60°-80°)	169.1	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: 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°	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9
2.5°	2236.9	2216.3	2236.9	2266.7	2282.8	2296.6	2344.7	2386.0	2429.6	2459.5	2450.3
5°	2074.0	2113.0	2117.6	2126.8	2152.0	2234.6	2262.2	2333.3	2441.1	2450.3	2491.6
7.5°	1945.5	1934.1	1963.9	2023.5	2087.8	2136.0	2216.3	2340.2	2452.6	2491.6	2571.9
10°	1759.7	1782.6	1814.8	1874.4	1952.4	2071.7	2214.0	2351.6	2512.2	2526.0	2675.1
12.5°	1658.8	1635.8	1686.3	1748.2	1881.3	1991.4	2165.8	2331.0	2548.9	2624.6	2796.7
15°	1576.2	1587.6	1635.8	1677.1	1787.2	1927.2	2131.4	2381.5	2610.9	2663.6	2925.2
17.5°	1541.8	1534.9	1571.6	1612.9	1748.2	1906.5	2117.6	2383.7	2665.9	2734.8	3012.4
20°	1557.8	1571.6	1560.1	1599.1	1684.0	1844.6	2138.3	2427.3	2707.2	2801.3	3106.4
22.5°	1810.2	1791.8	1700.1	1626.6	1631.2	1819.4	2122.2	2454.9	2743.9	2819.7	3170.7
25°	2468.6	2370.0	2142.8	1860.7	1674.8	1750.5	2103.8	2445.7	2737.1	2831.1	3209.7
27.5°	3131.7	3046.8	2824.2	2386.0	1851.5	1723.0	2039.6	2452.6	2702.7	2789.8	3145.4
30°	3831.4	3877.3	3546.9	3026.1	2314.9	1874.4	1998.3	2415.9	2679.7	2753.1	3159.2
32.5°	4549.5	4531.2	4331.6	3767.2	2978.0	2209.4	2064.8	2452.6	2709.5	2780.7	3239.5
35°	5111.6	5047.4	4845.5	4336.2	3526.3	2714.1	2294.3	2626.9	2840.3	2925.2	3354.2
37.5°	5389.2	5416.8	5299.8	4857.0	4127.4	3182.2	2581.1	2626.9	2881.6	2980.3	3540.1
40°	5604.9	5687.5	5643.9	5501.7	4723.9	3709.8	2897.7	2789.8	3090.4	3276.2	3888.8
42.5°	5864.2	5825.2	6082.1	5951.3	5504.0	4375.2	3452.9	3177.6	3583.7	3762.6	4411.9
45°	6001.8	6150.9	6346.0	6513.4	6226.7	5205.7	4177.9	3863.6	4338.5	4565.6	5189.6
47.5°	6355.1	6414.8	6731.4	6942.5	6814.0	6155.5	5279.1	4866.2	5288.3	5646.2	6079.8
50°	6561.6	6481.3	6924.1	7245.3	7318.7	6942.5	6265.7	5944.5	6417.1	6873.6	6912.6
52.5°	6380.4	6609.8	7052.6	7628.5	7832.6	7644.5	7424.3	7284.3	7617.0	8039.1	7851.0
55°	5744.9	5900.9	6979.2	8048.3	8706.8	8619.6	8823.8	8732.0	9067.0	9514.3	8947.7
57.5°	5233.2	5428.2	6375.8	8266.3	9521.2	9778.2	10035.1	9977.8	10381.6	10897.8	9876.8
60°	4914.3	5026.7	5939.9	8211.2	10003.0	10975.8	11556.2	11152.5	11810.9	12205.5	10604.1
62.5°	4361.4	4432.5	5304.4	7481.6	10147.6	11822.4	12806.6	12258.3	12829.6	13311.4	11127.2
65°	3496.5	3689.2	4409.6	6389.5	9193.1	11978.4	13586.7	12942.0	13494.9	13811.5	11285.5
66°	3182.2	3322.1	3982.9	5811.4	8649.4	11719.1	13455.9	13084.2	13591.3	13880.3	11042.3
67.5°	2640.7	2762.3	3287.7	4987.7	7536.7	11147.9	13547.7	12987.9	13664.7	13488.0	10716.5
70°	1748.2	1826.2	2248.4	3372.6	5249.3	9119.7	12565.7	12235.4	12012.8	11349.8	8378.7
72.5°	816.8	929.2	1404.1	2044.2	3078.9	6380.4	10246.2	9803.4	8424.6	7364.6	5286.0
75°	369.4	419.9	770.9	1172.4	1381.2	3306.0	6609.8	5969.7	4193.9	3482.7	2314.9
77.5°	199.6	227.1	376.3	557.5	502.4	1158.6	3271.6	2721.0	1321.5	968.2	672.2
80°	153.7	181.2	314.3	318.9	185.8	300.5	1216.0	842.0	330.4	250.1	160.6
82.5°	80.3	114.7	247.8	206.5	94.1	121.6	376.3	234.0	103.2	82.6	68.8
85°	32.1	50.5	140.0	137.7	55.1	41.3	105.5	71.1	41.3	34.4	32.1
87.5°	2.3	2.3	75.7	52.8	34.4	11.5	16.1	16.1	20.6	18.4	22.9
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°	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9	2431.9
2.5°	2491.6	2519.1	2523.7	2599.4	2615.5	2599.4	2640.7	2633.8	2652.2	2638.4	2613.2
5°	2548.9	2587.9	2663.6	2721.0	2721.0	2675.1	2638.4	2590.2	2519.1	2500.8	2487.0
7.5°	2647.6	2771.5	2840.3	2803.6	2730.2	2558.1	2319.5	2145.1	1998.3	1943.2	1918.0
10°	2822.0	2890.8	2971.1	2822.0	2516.8	2152.0	1750.5	1486.7	1280.2	1234.3	1199.9
12.5°	2934.4	3044.5	3090.4	2721.0	2122.2	1578.5	1142.5	844.3	699.8	589.6	571.3
15°	3081.2	3207.4	3113.3	2448.0	1672.5	1034.7	591.9	369.4	300.5	282.2	282.2
17.5°	3182.2	3319.8	3019.3	2108.4	1186.1	550.6	293.7	254.7	250.1	252.4	247.8
20°	3358.8	3441.4	2877.0	1713.8	708.9	282.2	236.3	227.1	222.5	229.4	224.8
22.5°	3425.3	3501.1	2645.3	1241.2	318.9	188.1	176.7	169.8	174.4	172.1	169.8
25°	3420.8	3459.8	2264.4	711.2	94.1	73.4	66.5	66.5	61.9	64.2	61.9
27.5°	3455.2	3358.8	1837.7	211.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3473.5	3195.9	1307.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3482.7	3111.0	842.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3553.8	2941.3	360.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3602.0	2723.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3801.6	2654.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4060.9	2526.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4421.1	2335.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4898.3	2223.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5253.9	2046.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5705.9	1941.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6242.7	1945.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6731.4	1913.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6981.5	1635.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6928.7	1323.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6745.2	1039.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6619.0	920.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6235.8	736.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4962.5	504.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3156.9	309.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1454.6	142.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	456.6	87.2	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	119.3	55.1	18.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	61.9	39.0	16.1	6.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.0	16.1	6.9	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	34.4	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)