

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: P482896

Luminaire Tested: **IFLD-M-SA4B-750-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482896
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-750-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

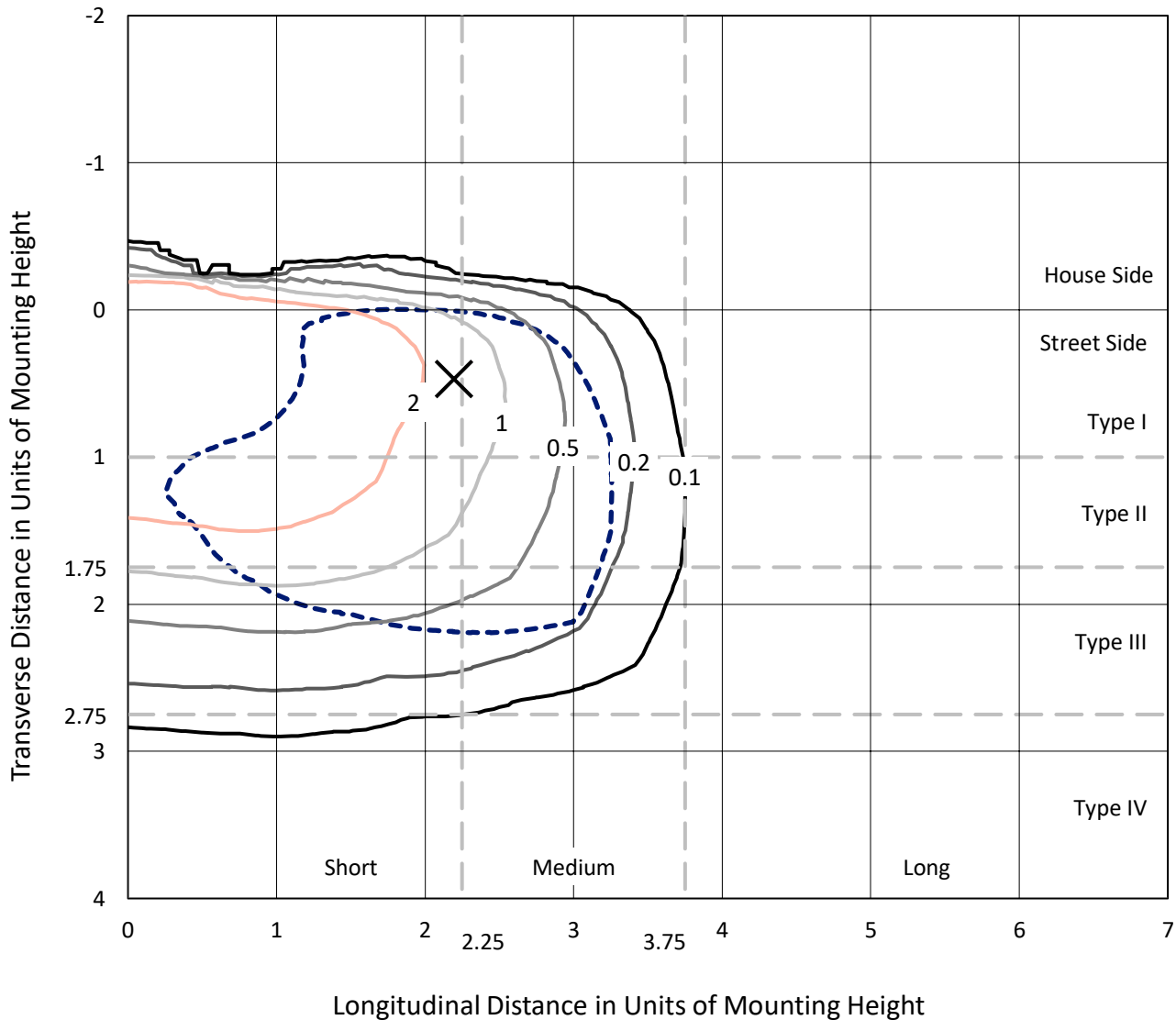
Lumens per Lamp: N/A
Luminaire Lumens: 16746.7 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1
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

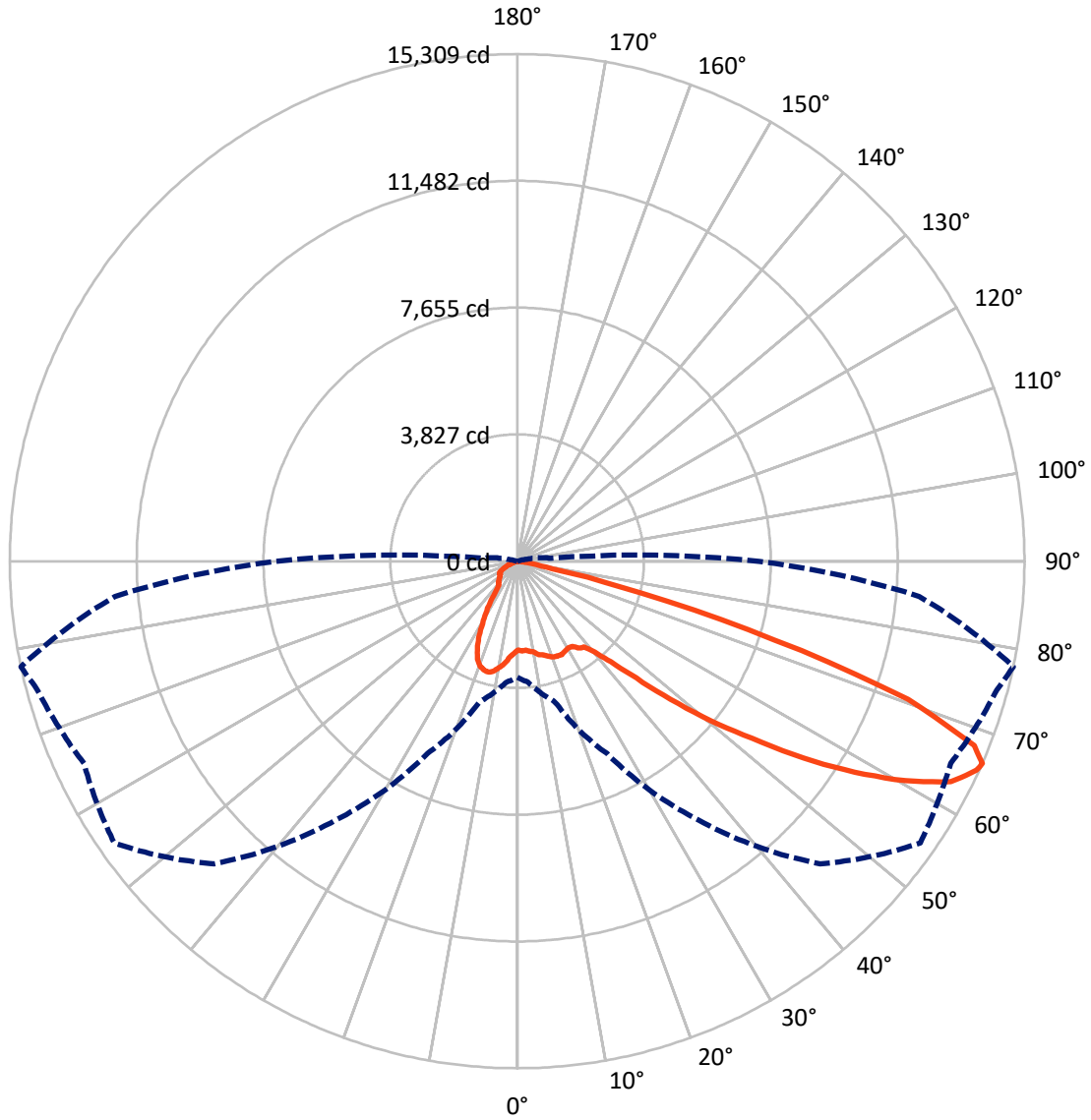
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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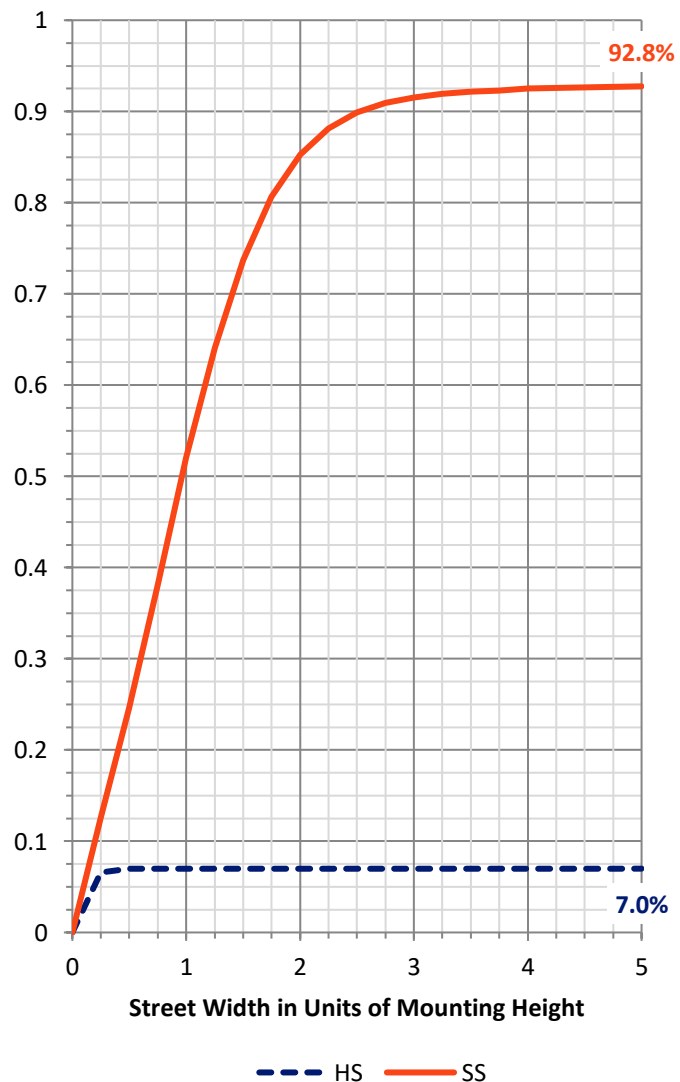
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1177.4	0.0	1177.4
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	15569.3	0.0	15569.3
	% Fixture	93.0	0.0	93.0
Total	Lumens	16746.7	0.0	16746.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.4	1.5
10°-20°	553.9	3.3
20°-30°	791.7	4.7
30°-40°	1355.3	8.1
40°-50°	2446.1	14.6
50°-60°	4183.1	25.0
60°-70°	5148.7	30.7
70°-80°	1946.5	11.6
80°-90°	76.0	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°	16746.7	100.0
0°-180°	16746.7	100.0

Coefficient of Utilization

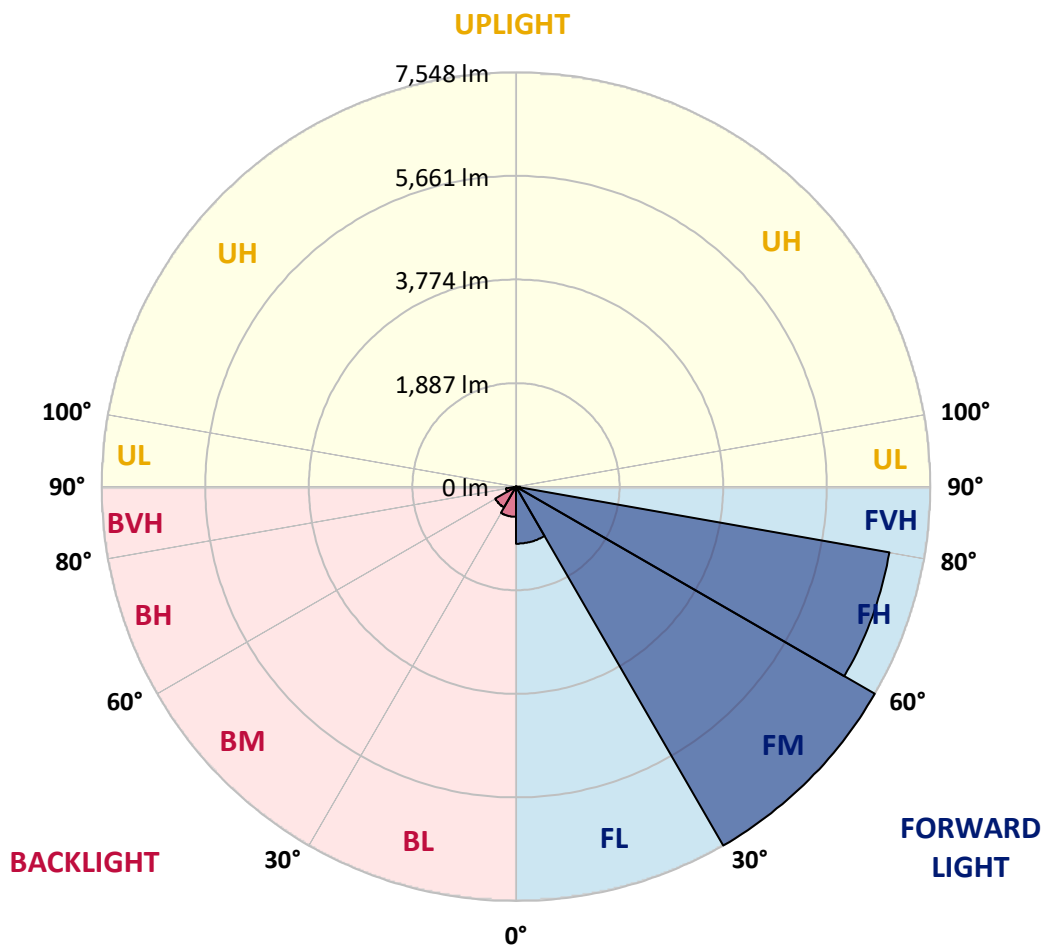


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1039.6	6.2			
FM (30°-60°)	7548.1	45.1			
FH (60°-80°)	6908.6	41.3			G3/7500
FVH (80°-90°)	73.0	0.4			G1/100
BL (0°-30°)	551.4	3.3	B2/1000		
BM (30°-60°)	436.4	2.6	B1/1000		
BH (60°-80°)	186.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.1	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°	2682.3	2682.3	2682.3	2682.3	2682.3	2682.3	2682.3	2682.3	2682.3	2682.3	2682.3
2.5°	2467.2	2444.4	2467.2	2500.1	2517.8	2533.0	2586.1	2631.7	2679.7	2712.6	2702.5
5°	2287.5	2330.5	2335.6	2345.7	2373.6	2464.7	2495.0	2573.5	2692.4	2702.5	2748.1
7.5°	2145.8	2133.2	2166.1	2231.9	2302.7	2355.8	2444.4	2581.1	2705.0	2748.1	2836.6
10°	1940.9	1966.2	2001.6	2067.4	2153.4	2285.0	2441.9	2593.7	2770.8	2786.0	2950.5
12.5°	1829.5	1804.2	1859.9	1928.2	2075.0	2196.4	2388.7	2570.9	2811.3	2894.8	3084.6
15°	1738.4	1751.1	1804.2	1849.8	1971.2	2125.6	2350.8	2626.6	2879.6	2937.8	3226.3
17.5°	1700.5	1692.9	1733.4	1778.9	1928.2	2102.8	2335.6	2629.1	2940.4	3016.3	3322.5
20°	1718.2	1733.4	1720.7	1763.7	1857.3	2034.5	2358.4	2677.2	2985.9	3089.7	3426.2
22.5°	1996.5	1976.3	1875.1	1794.1	1799.1	2006.6	2340.7	2707.6	3026.4	3109.9	3497.1
25°	2722.8	2614.0	2363.4	2052.2	1847.2	1930.7	2320.4	2697.5	3018.8	3122.6	3540.1
27.5°	3454.1	3360.4	3115.0	2631.7	2042.1	1900.4	2249.6	2705.0	2980.9	3077.0	3469.2
30°	4225.8	4276.5	3912.1	3337.7	2553.2	2067.4	2204.0	2664.6	2955.6	3036.5	3484.4
32.5°	5017.9	4997.6	4777.5	4155.0	3284.5	2436.8	2277.4	2705.0	2988.5	3066.9	3573.0
35°	5637.8	5567.0	5344.3	4782.5	3889.3	2993.5	2530.4	2897.4	3132.7	3226.3	3699.5
37.5°	5944.0	5974.4	5845.3	5357.0	4552.3	3509.7	2846.8	2897.4	3178.2	3287.0	3904.5
40°	6181.9	6273.0	6224.9	6068.0	5210.2	4091.7	3196.0	3077.0	3408.5	3613.5	4289.1
42.5°	6467.8	6424.8	6708.2	6564.0	6070.5	4825.6	3808.3	3504.7	3952.6	4149.9	4866.0
45°	6619.6	6784.1	6999.2	7183.9	6867.6	5741.6	4607.9	4261.3	4785.1	5035.6	5723.9
47.5°	7009.3	7075.1	7424.3	7657.1	7515.4	6789.2	5822.6	5367.1	5832.7	6227.4	6705.7
50°	7237.1	7148.5	7636.9	7991.1	8072.1	7657.1	6910.6	6556.4	7077.7	7581.2	7624.2
52.5°	7037.2	7290.2	7778.6	8413.7	8638.9	8431.4	8188.5	8034.2	8401.1	8866.7	8659.2
55°	6336.2	6508.3	7697.6	8876.8	9603.0	9506.9	9732.1	9630.9	10000.3	10493.8	9868.7
57.5°	5771.9	5987.0	7032.1	9117.2	10501.3	10784.8	11068.2	11004.9	11450.3	12019.6	10893.6
60°	5420.2	5544.2	6551.3	9056.5	11032.7	12105.7	12745.9	12300.5	13026.7	13462.0	11695.7
62.5°	4810.4	4888.8	5850.4	8251.8	11192.2	13039.4	14124.9	13520.2	14150.3	14681.6	12272.7
65°	3856.4	4069.0	4863.5	7047.3	10139.5	13211.5	14985.3	14274.2	14884.1	15233.3	12447.3
66°	3509.7	3664.1	4392.9	6409.6	9539.8	12925.5	14841.1	14431.1	14990.4	15309.2	12179.0
67.5°	2912.5	3046.7	3626.1	5501.2	8312.5	12295.4	14942.3	14324.9	15071.3	14876.5	11819.7
70°	1928.2	2014.2	2479.8	3719.8	5789.7	10058.5	13859.3	13494.9	13249.4	12518.1	9241.2
72.5°	900.8	1024.8	1548.6	2254.6	3395.9	7037.2	11301.0	10812.6	9291.8	8122.7	5830.1
75°	407.4	463.1	850.2	1293.1	1523.3	3646.4	7290.2	6584.2	4625.7	3841.2	2553.2
77.5°	220.1	250.5	415.0	614.9	554.2	1277.9	3608.4	3001.1	1457.5	1067.8	741.4
80°	169.5	199.9	346.7	351.7	205.0	331.5	1341.1	928.7	364.4	275.8	177.1
82.5°	88.6	126.5	273.3	227.7	103.7	134.1	415.0	258.1	113.9	91.1	75.9
85°	35.4	55.7	154.4	151.8	60.7	45.5	116.4	78.4	45.5	38.0	35.4
87.5°	2.5	2.5	83.5	58.2	38.0	12.7	17.7	17.7	22.8	20.2	25.3
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°	2682.3	2682.3	2682.3	2682.3	2682.3	2682.3	2682.3	2682.3	2682.3	2682.3	2682.3
2.5°	2748.1	2778.4	2783.5	2867.0	2884.7	2867.0	2912.5	2905.0	2925.2	2910.0	2882.2
5°	2811.3	2854.3	2937.8	3001.1	3001.1	2950.5	2910.0	2856.9	2778.4	2758.2	2743.0
7.5°	2920.1	3056.8	3132.7	3092.2	3011.2	2821.4	2558.3	2366.0	2204.0	2143.3	2115.5
10°	3112.4	3188.4	3276.9	3112.4	2775.9	2373.6	1930.7	1639.7	1412.0	1361.4	1323.4
12.5°	3236.4	3357.9	3408.5	3001.1	2340.7	1740.9	1260.2	931.2	771.8	650.3	630.1
15°	3398.4	3537.6	3433.8	2700.0	1844.7	1141.2	652.9	407.4	331.5	311.2	311.2
17.5°	3509.7	3661.6	3330.1	2325.5	1308.2	607.3	323.9	280.9	275.8	278.3	273.3
20°	3704.6	3795.7	3173.2	1890.2	781.9	311.2	260.6	250.5	245.5	253.0	248.0
22.5°	3778.0	3861.5	2917.6	1369.0	351.7	207.5	194.8	187.3	192.3	189.8	187.3
25°	3772.9	3815.9	2497.5	784.4	103.7	81.0	73.4	73.4	68.3	70.9	68.3
27.5°	3810.9	3704.6	2026.9	232.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3831.1	3524.9	1442.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3841.2	3431.3	928.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3919.7	3244.0	397.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3972.8	3003.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4192.9	2927.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4478.9	2786.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4876.2	2576.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5402.5	2452.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5794.7	2257.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6293.2	2140.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6885.3	2145.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7424.3	2110.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7700.1	1804.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7641.9	1460.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7439.5	1146.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7300.3	1014.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6877.8	812.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5473.4	556.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3481.9	341.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1604.3	156.9	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	503.6	96.2	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	131.6	60.7	20.2	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	68.3	43.0	17.7	7.6	5.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.0	17.7	7.6	5.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	38.0	10.1	5.1	5.1	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)