

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: P482779

Luminaire Tested: **IFLD-M-SA4B-730-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482779
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-730-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

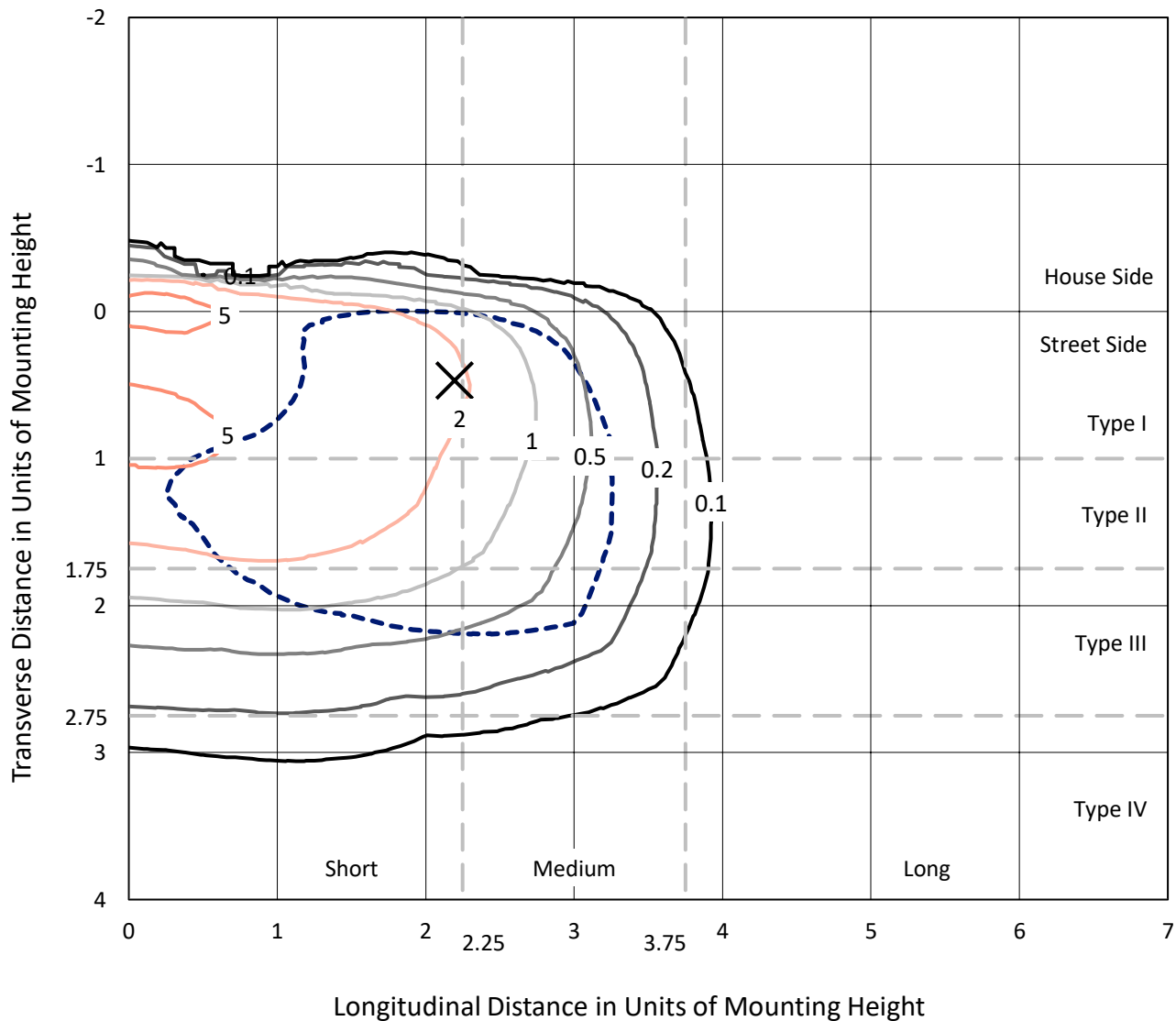
Lumens per Lamp: N/A
Luminaire Lumens: 14908.1 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 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

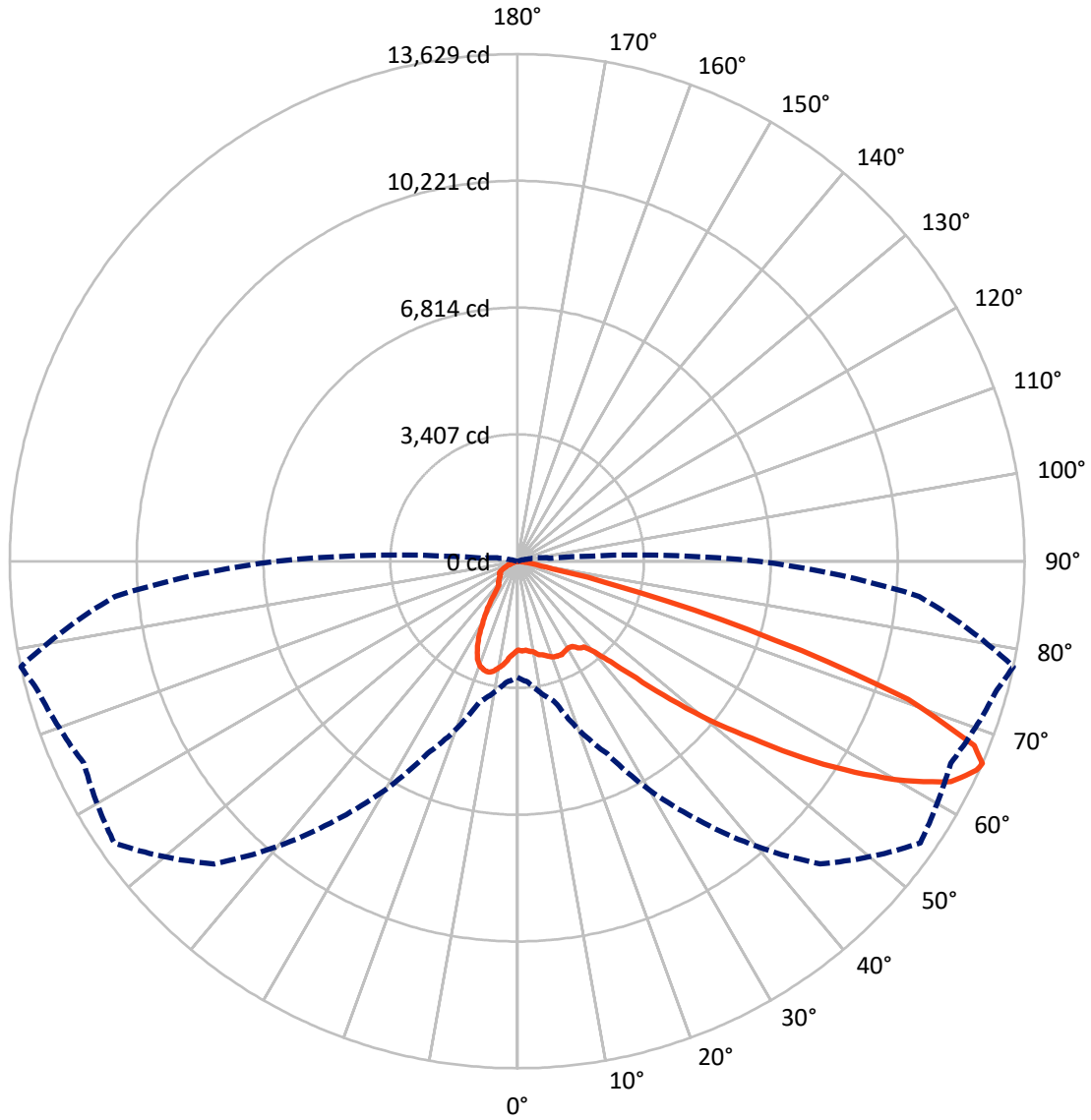
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 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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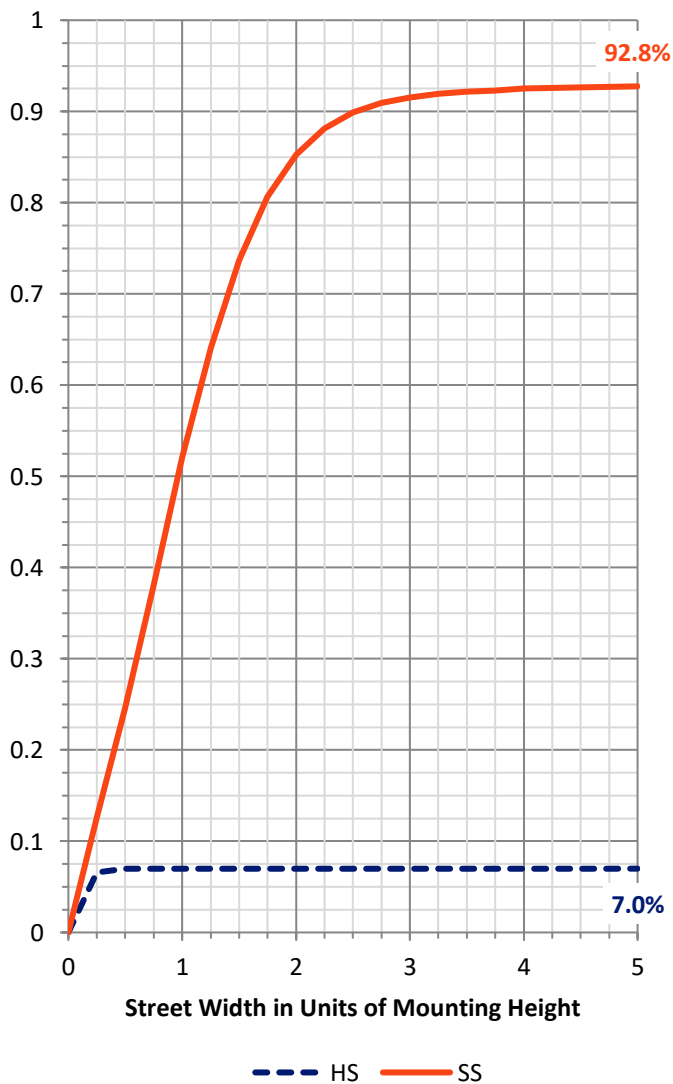
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1048.1	0.0	1048.1
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	13860.0	0.0	13860.0
	% Fixture	93.0	0.0	93.0
Total	Lumens	14908.1	0.0	14908.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.4	1.5
10°-20°	493.1	3.3
20°-30°	704.8	4.7
30°-40°	1206.5	8.1
40°-50°	2177.5	14.6
50°-60°	3723.9	25.0
60°-70°	4583.4	30.7
70°-80°	1732.8	11.6
80°-90°	67.7	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°	14908.1	100.0
0°-180°	14908.1	100.0

Coefficient of Utilization

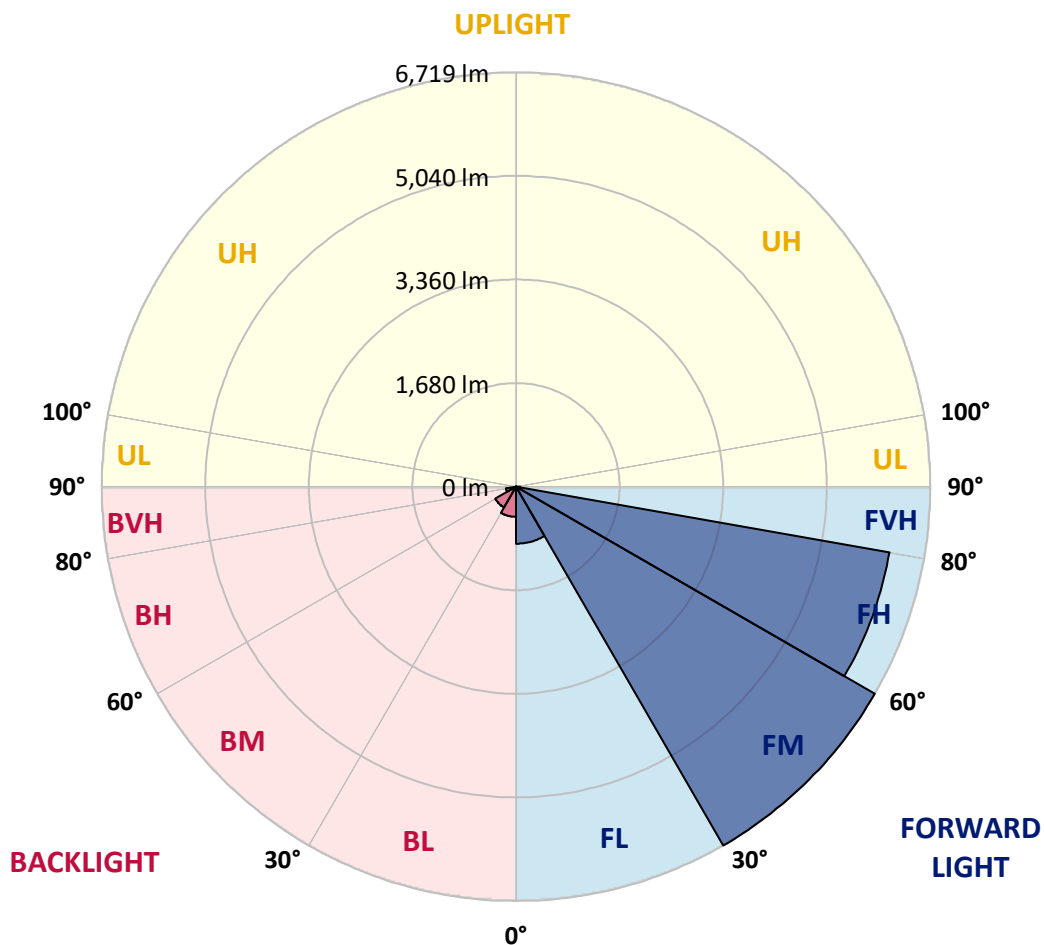


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	925.5	6.2			
FM (30°-60°)	6719.4	45.1			
FH (60°-80°)	6150.1	41.3			G3/7500
FVH (80°-90°)	65.0	0.4			G1/100
BL (0°-30°)	490.9	3.3	B1/500		
BM (30°-60°)	388.5	2.6	B1/1000		
BH (60°-80°)	166.1	1.1	B1/500		G1/500
BVH (80°-90°)	2.7	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°	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8
2.5°	2196.3	2176.0	2196.3	2225.6	2241.4	2254.9	2302.2	2342.7	2385.5	2414.8	2405.8
5°	2036.4	2074.7	2079.2	2088.2	2113.0	2194.1	2221.1	2290.9	2396.8	2405.8	2446.4
7.5°	1910.2	1899.0	1928.3	1986.8	2049.9	2097.2	2176.0	2297.7	2408.1	2446.4	2525.2
10°	1727.8	1750.3	1781.8	1840.4	1917.0	2034.1	2173.8	2309.0	2466.6	2480.2	2626.6
12.5°	1628.7	1606.1	1655.7	1716.5	1847.2	1955.3	2126.5	2288.7	2502.7	2577.0	2746.0
15°	1547.6	1558.8	1606.1	1646.7	1754.8	1892.2	2092.7	2338.2	2563.5	2615.3	2872.1
17.5°	1513.8	1507.0	1543.1	1583.6	1716.5	1871.9	2079.2	2340.5	2617.6	2685.1	2957.7
20°	1529.5	1543.1	1531.8	1570.1	1653.4	1811.1	2099.5	2383.3	2658.1	2750.5	3050.1
22.5°	1777.3	1759.3	1669.2	1597.1	1601.6	1786.3	2083.7	2410.3	2694.2	2768.5	3113.1
25°	2423.8	2327.0	2104.0	1826.9	1644.4	1718.8	2065.7	2401.3	2687.4	2779.8	3151.4
27.5°	3074.9	2991.5	2773.0	2342.7	1817.9	1691.7	2002.6	2408.1	2653.6	2739.2	3088.4
30°	3761.9	3807.0	3482.6	2971.2	2272.9	1840.4	1962.0	2372.0	2631.1	2703.2	3101.9
32.5°	4467.0	4449.0	4253.0	3698.8	2923.9	2169.3	2027.4	2408.1	2660.4	2730.2	3180.7
35°	5018.9	4955.8	4757.6	4257.5	3462.3	2664.9	2252.6	2579.3	2788.8	2872.1	3293.4
37.5°	5291.4	5318.5	5203.6	4768.8	4052.5	3124.4	2534.2	2579.3	2829.3	2926.2	3475.8
40°	5503.2	5584.3	5541.5	5401.8	4638.2	3642.5	2845.1	2739.2	3034.3	3216.8	3818.2
42.5°	5757.7	5719.4	5971.7	5843.3	5404.1	4295.8	3390.2	3119.9	3518.6	3694.3	4331.8
45°	5892.9	6039.3	6230.8	6395.2	6113.7	5111.2	4102.1	3793.4	4259.7	4482.8	5095.5
47.5°	6239.8	6298.4	6609.2	6816.5	6690.3	6043.8	5183.3	4777.8	5192.3	5543.7	5969.5
50°	6442.5	6363.7	6798.5	7113.8	7185.9	6816.5	6152.0	5836.6	6300.6	6748.9	6787.2
52.5°	6264.6	6489.9	6924.6	7490.0	7690.5	7505.8	7289.5	7152.1	7478.8	7893.2	7708.5
55°	5640.6	5793.8	6852.5	7902.3	8548.8	8463.2	8663.6	8573.5	8902.4	9341.7	8785.3
57.5°	5138.3	5329.7	6260.1	8116.3	9348.4	9600.7	9853.0	9796.7	10193.2	10700.0	9697.6
60°	4825.2	4935.5	5832.1	8062.2	9821.5	10776.6	11346.5	10950.1	11596.6	11984.0	10411.7
62.5°	4282.3	4352.1	5208.1	7345.9	9963.4	11607.8	12574.2	12035.8	12596.8	13069.8	10925.3
65°	3433.0	3622.2	4329.6	6273.6	9026.3	11761.0	13340.1	12707.1	13250.0	13560.9	11080.7
66°	3124.4	3261.8	3910.6	5705.9	8492.4	11506.5	13211.7	12846.8	13344.6	13628.5	10841.9
67.5°	2592.8	2712.2	3228.0	4897.2	7399.9	10945.6	13301.8	12752.2	13416.7	13243.3	10522.1
70°	1716.5	1793.1	2207.6	3311.4	5154.0	8954.2	12337.7	12013.3	11794.8	11143.8	8226.6
72.5°	801.9	912.3	1378.6	2007.1	3023.0	6264.6	10060.3	9625.5	8271.7	7231.0	5190.1
75°	362.7	412.2	756.9	1151.1	1356.1	3246.1	6489.9	5861.4	4117.8	3419.5	2272.9
77.5°	196.0	223.0	369.4	547.4	493.3	1137.6	3212.3	2671.6	1297.5	950.6	660.0
80°	150.9	178.0	308.6	313.1	182.5	295.1	1193.9	826.7	324.4	245.5	157.7
82.5°	78.8	112.6	243.3	202.7	92.4	119.4	369.4	229.8	101.4	81.1	67.6
85°	31.5	49.6	137.4	135.2	54.1	40.5	103.6	69.8	40.5	33.8	31.5
87.5°	2.3	2.3	74.3	51.8	33.8	11.3	15.8	15.8	20.3	18.0	22.5
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°	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8	2387.8
2.5°	2446.4	2473.4	2477.9	2552.2	2568.0	2552.2	2592.8	2586.0	2604.1	2590.5	2565.8
5°	2502.7	2541.0	2615.3	2671.6	2671.6	2626.6	2590.5	2543.2	2473.4	2455.4	2441.9
7.5°	2599.5	2721.2	2788.8	2752.7	2680.6	2511.7	2277.4	2106.2	1962.0	1908.0	1883.2
10°	2770.7	2838.3	2917.2	2770.7	2471.1	2113.0	1718.8	1459.7	1257.0	1211.9	1178.1
12.5°	2881.1	2989.3	3034.3	2671.6	2083.7	1549.8	1121.8	829.0	687.1	578.9	560.9
15°	3025.3	3149.2	3056.8	2403.6	1642.2	1015.9	581.2	362.7	295.1	277.1	277.1
17.5°	3124.4	3259.6	2964.5	2070.2	1164.6	540.6	288.3	250.0	245.5	247.8	243.3
20°	3297.9	3379.0	2824.8	1682.7	696.1	277.1	232.0	223.0	218.5	225.3	220.8
22.5°	3363.2	3437.5	2597.3	1218.7	313.1	184.7	173.5	166.7	171.2	168.9	166.7
25°	3358.7	3397.0	2223.4	698.3	92.4	72.1	65.3	65.3	60.8	63.1	60.8
27.5°	3392.5	3297.9	1804.4	207.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3410.5	3137.9	1284.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3419.5	3054.6	826.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3489.3	2887.9	353.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3536.6	2673.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3732.6	2606.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3987.2	2480.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4340.8	2293.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4809.4	2182.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5158.5	2009.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5602.3	1905.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6129.4	1910.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6609.2	1878.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6854.8	1606.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6803.0	1299.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6622.8	1020.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6498.9	903.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6122.7	723.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4872.5	495.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3099.6	304.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1428.2	139.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	448.3	85.6	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	117.1	54.1	18.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	60.8	38.3	15.8	6.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.3	15.8	6.8	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	33.8	9.0	4.5	4.5	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)