

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: P481608

Luminaire Tested: **IFLD-M-SA4A-730-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481608
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

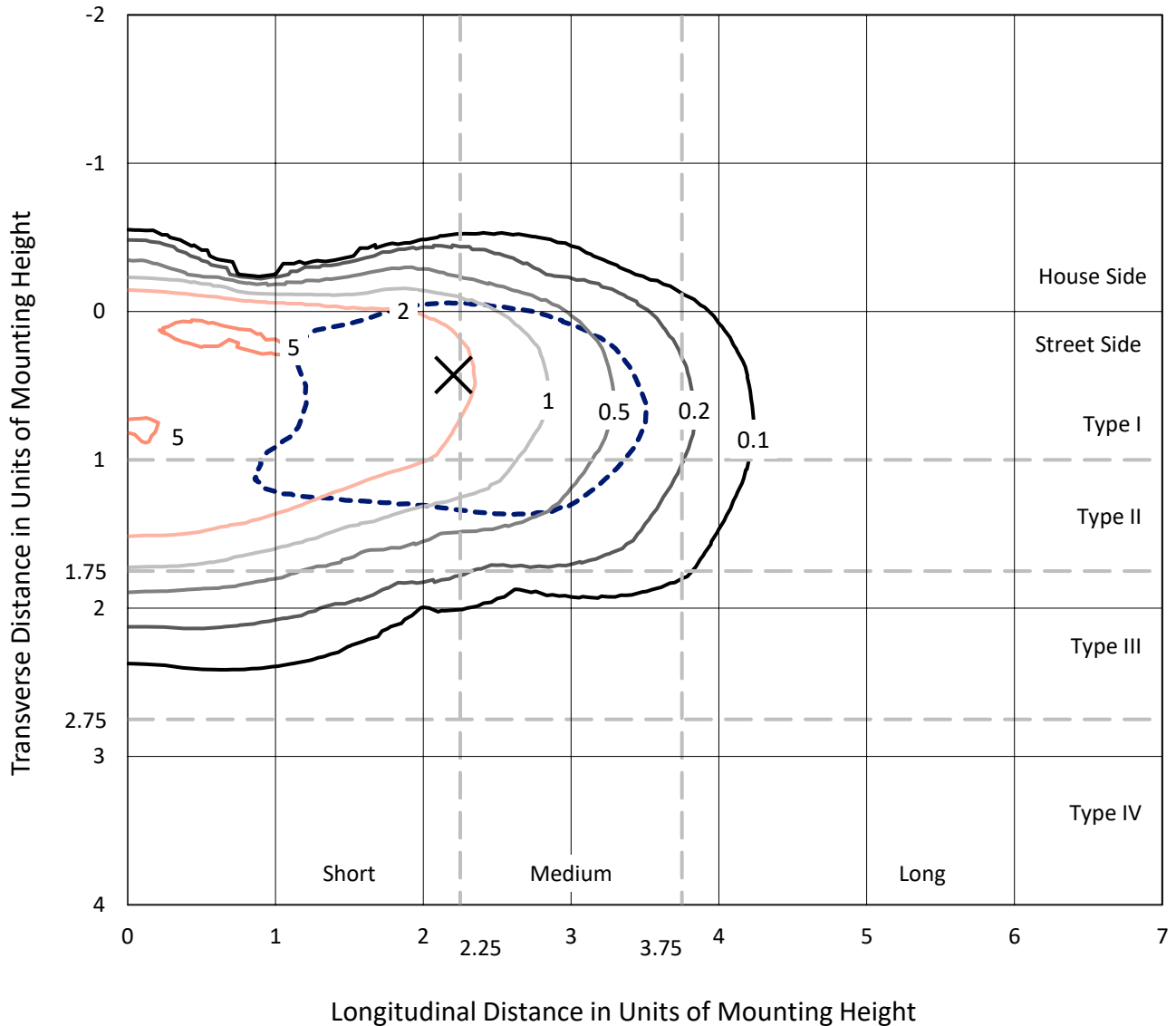
Lumens per Lamp: N/A
Luminaire Lumens: 12110.1 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
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

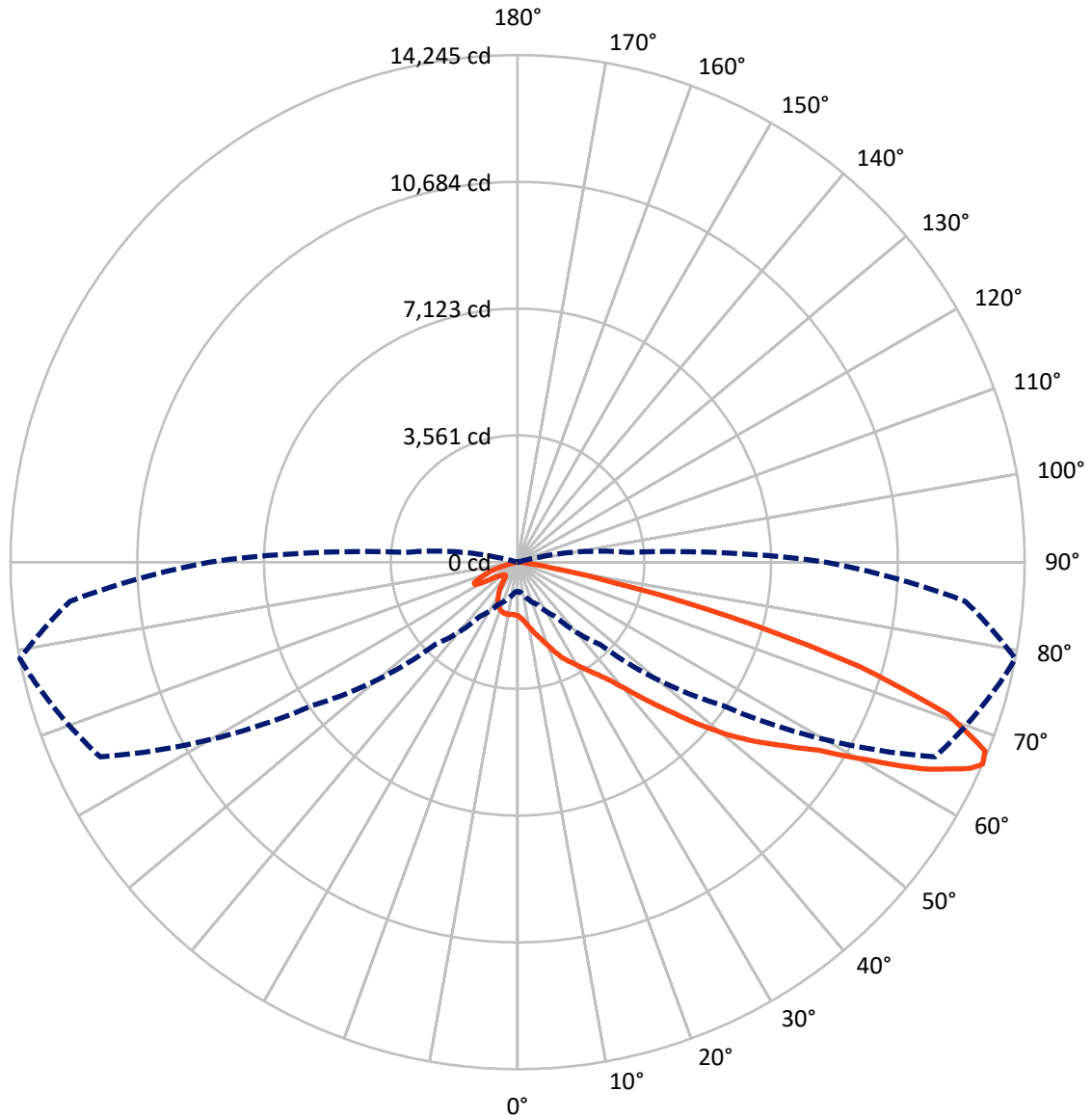
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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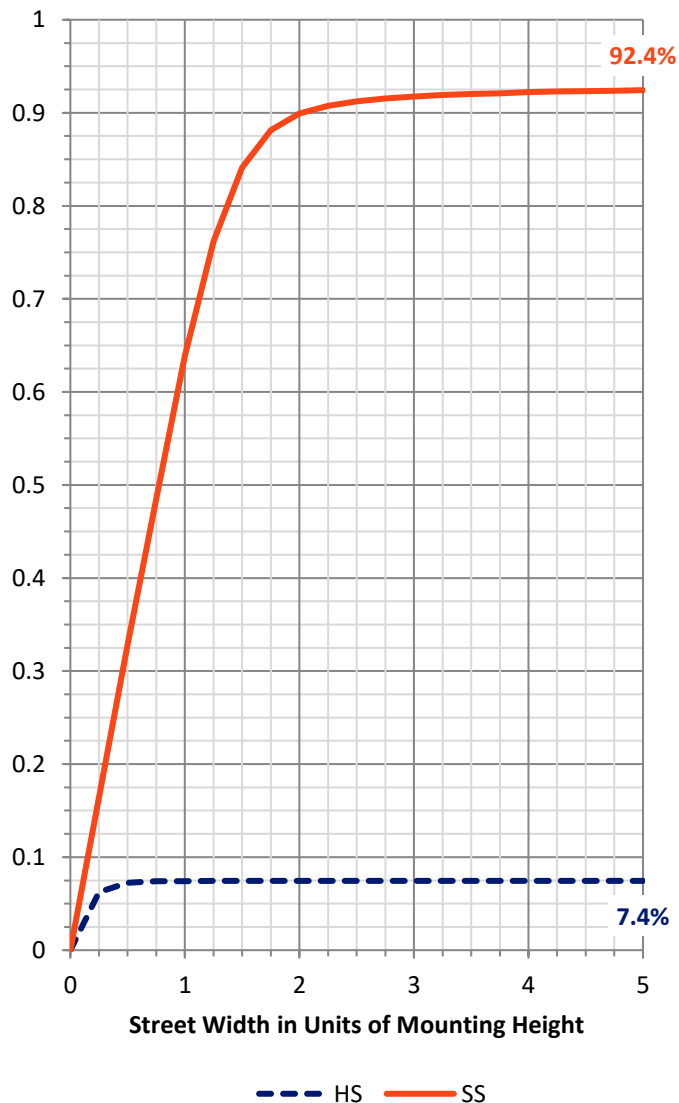
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	909.3	0.0	909.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	11200.8	0.0	11200.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	12110.1	0.0	12110.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	1.2
10°-20°	392.1	3.2
20°-30°	651.4	5.4
30°-40°	1118.9	9.2
40°-50°	2027.1	16.7
50°-60°	3204.3	26.5
60°-70°	3260.6	26.9
70°-80°	1243.4	10.3
80°-90°	69.7	0.6
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°	12110.1	100.0
0°-180°	12110.1	100.0

Coefficient of Utilization



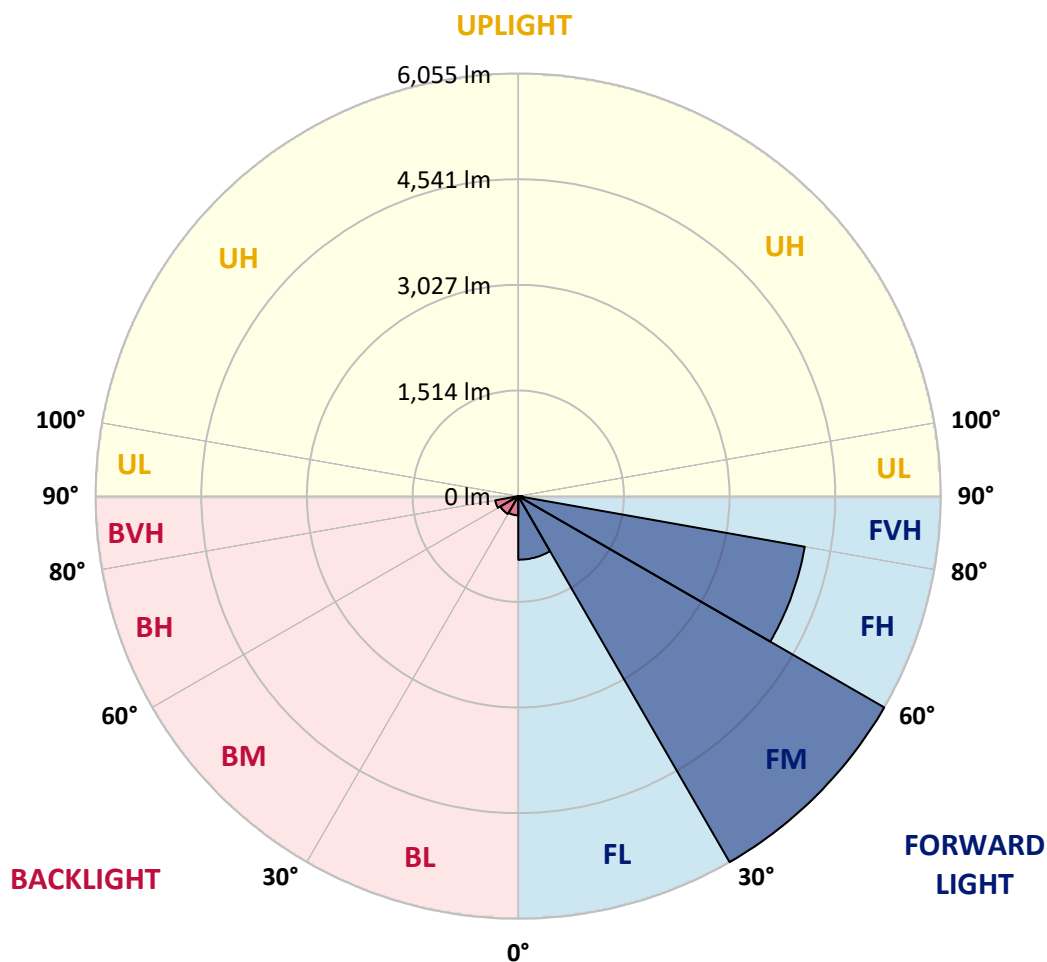
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	911.1	7.5			
FM (30°-60°)	6054.8	50.0			
FH (60°-80°)	4168.8	34.4			G2/5000
FVH (80°-90°)	66.1	0.5			G1/100
BL (0°-30°)	275.0	2.3	B1/500		
BM (30°-60°)	295.5	2.4	B1/1000		
BH (60°-80°)	335.2	2.8	B1/500		G1/500
BVH (80°-90°)	3.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6
2.5°	1706.4	1704.5	1697.1	1684.0	1667.2	1661.6	1637.3	1603.7	1585.1	1564.5	1555.2
5°	1824.0	1814.7	1837.1	1827.8	1831.5	1786.7	1756.8	1732.5	1661.6	1633.6	1588.8
7.5°	1850.2	1859.5	1857.6	1872.6	1887.5	1904.3	1883.8	1848.3	1777.4	1736.3	1687.7
10°	1850.2	1846.4	1861.4	1881.9	1924.8	1962.2	2018.2	1971.5	1917.4	1868.8	1781.1
12.5°	1816.6	1811.0	1825.9	1868.8	1945.4	2021.9	2083.5	2128.3	2051.8	2012.6	1898.7
15°	1713.9	1708.3	1769.9	1846.4	1947.2	2072.3	2201.2	2274.0	2221.7	2160.1	2033.1
17.5°	1586.9	1594.4	1659.7	1786.7	1947.2	2096.6	2260.9	2419.6	2412.1	2333.7	2201.2
20°	1544.0	1549.6	1614.9	1706.4	1889.4	2113.4	2354.2	2578.3	2623.1	2529.7	2356.1
22.5°	1626.1	1620.5	1626.1	1682.1	1850.2	2098.5	2415.9	2759.4	2839.7	2766.8	2559.6
25°	1906.2	1902.4	1855.8	1769.9	1827.8	2064.9	2447.6	2878.9	3063.7	2996.5	2723.9
27.5°	2316.9	2302.0	2229.2	2049.9	1932.3	2085.4	2499.9	2994.6	3259.7	3183.2	2871.4
30°	2757.5	2722.0	2626.8	2402.8	2203.0	2162.0	2529.7	3080.5	3478.2	3381.1	3000.2
32.5°	3061.8	3108.5	3078.6	2850.9	2544.7	2339.3	2578.3	3188.8	3679.8	3616.3	3220.5
35°	3532.3	3586.4	3461.4	3259.7	2951.7	2621.2	2681.0	3276.5	3989.7	3883.3	3425.9
37.5°	4126.0	4167.1	4077.5	3694.7	3369.9	2968.5	2891.9	3459.5	4256.7	4206.3	3689.1
40°	4424.7	4622.6	4495.7	4150.3	3801.2	3453.9	3241.1	3674.2	4721.6	4680.5	4053.2
42.5°	4837.3	4936.3	4870.9	4615.1	4251.1	3972.9	3672.3	4092.4	5285.4	5285.4	4546.1
45°	5274.2	5277.9	5274.2	5065.1	4742.1	4598.3	4254.8	4617.0	5892.2	5959.4	5136.0
47.5°	5632.6	5744.7	5735.3	5610.2	5360.1	5305.9	4837.3	5214.4	6653.9	6771.5	5711.1
50°	5817.5	5942.6	5979.9	6045.2	6034.0	6147.9	5474.0	5907.1	7311.1	7600.4	6450.4
52.5°	5767.1	5776.4	6006.0	6263.7	6674.4	6993.7	6241.3	6693.1	8080.2	8365.9	7021.7
55°	5354.5	5319.0	5791.3	6086.3	6935.8	7510.8	7303.6	7673.2	8679.5	9114.5	7611.6
57.5°	4449.0	4458.3	4895.2	5494.5	6741.6	7716.2	8438.7	8954.0	9519.7	9958.4	8440.6
60°	3071.2	3060.0	3549.1	4241.8	5600.9	7333.5	9092.1	10613.7	10643.6	11265.3	9928.5
62.5°	1726.9	1730.7	2102.2	2694.0	3918.8	5993.0	9060.4	12376.1	12249.2	12794.3	11620.0
65°	978.3	1002.6	1258.3	1596.3	2346.8	4023.3	7792.7	13078.1	13487.0	13972.4	12646.9
66°	827.1	843.9	1062.3	1318.1	1872.6	3263.5	7014.2	12941.8	13875.3	14245.0	12626.3
67.5°	640.4	662.8	845.7	1045.5	1374.1	2259.0	5645.7	12264.1	13946.3	14162.8	12269.7
70°	438.7	453.7	593.7	793.5	939.1	1155.7	3375.5	10139.5	12654.3	12837.3	10664.1
72.5°	308.0	315.5	416.3	601.2	722.5	660.9	1674.7	7214.0	9684.0	10040.6	8294.9
75°	222.2	229.6	285.6	431.3	563.8	433.1	767.3	4607.7	5938.8	6218.9	4996.0
77.5°	160.6	169.9	194.2	278.2	408.9	304.3	377.1	2406.5	2800.5	2751.9	2148.9
80°	97.1	106.4	143.8	179.2	298.7	214.7	207.2	1004.4	993.2	942.8	675.8
82.5°	44.8	52.3	76.5	121.4	209.1	149.4	98.9	358.5	313.7	287.5	190.4
85°	13.1	16.8	44.8	91.5	106.4	72.8	59.7	123.2	128.8	110.2	63.5
87.5°	0.0	1.9	20.5	22.4	31.7	24.3	22.4	31.7	59.7	48.5	20.5
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°	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6	1506.6
2.5°	1521.6	1508.5	1476.8	1428.2	1385.3	1362.9	1331.1	1303.1	1288.2	1286.3	1284.5
5°	1558.9	1523.4	1446.9	1359.2	1293.8	1222.9	1174.3	1138.9	1105.2	1073.5	1092.2
7.5°	1609.3	1553.3	1428.2	1314.3	1172.5	1081.0	995.1	944.7	914.8	886.8	883.1
10°	1687.7	1616.8	1415.2	1209.8	1047.4	912.9	825.2	752.4	711.3	662.8	681.4
12.5°	1794.2	1667.2	1366.6	1114.6	905.5	763.6	638.5	520.9	455.5	405.1	407.0
15°	1900.6	1734.4	1321.8	998.8	776.7	590.0	407.0	326.7	308.0	296.8	300.6
17.5°	2005.1	1788.6	1252.7	881.2	629.2	375.3	296.8	280.0	270.7	259.5	259.5
20°	2132.1	1824.0	1166.9	772.9	433.1	278.2	253.9	242.7	227.8	212.8	214.7
22.5°	2255.3	1853.9	1067.9	634.8	291.2	240.8	212.8	197.9	184.8	169.9	169.9
25°	2378.5	1863.2	939.1	455.5	235.2	192.3	166.2	145.6	132.6	119.5	121.4
27.5°	2462.5	1805.4	817.7	291.2	188.6	145.6	115.8	98.9	87.7	74.7	74.7
30°	2511.1	1698.9	687.0	205.4	141.9	98.9	69.1	52.3	41.1	31.7	29.9
32.5°	2559.6	1613.1	539.6	156.8	93.3	52.3	26.1	9.3	0.0	0.0	0.0
35°	2656.7	1516.0	362.2	87.7	31.7	1.9	0.0	0.0	0.0	0.0	0.0
37.5°	2718.3	1381.6	166.2	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2873.3	1314.3	41.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3125.3	1267.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3401.6	1249.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3769.4	1299.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4157.7	1435.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4583.4	1564.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4954.9	1719.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5638.2	2085.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6864.8	2804.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8246.4	3338.1	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8752.4	3325.1	35.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8662.7	3142.1	35.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8197.9	2791.1	31.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7040.3	2305.7	31.7	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5367.5	1796.0	29.9	7.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	3239.2	955.9	24.3	9.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1290.1	336.1	18.7	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	349.1	100.8	11.2	7.5	5.6	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	91.5	37.3	9.3	7.5	3.7	1.9	0.0	0.0	0.0	0.0	0.0
85°	35.5	14.9	7.5	5.6	5.6	3.7	1.9	0.0	0.0	0.0	0.0
87.5°	11.2	5.6	5.6	3.7	3.7	1.9	1.9	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)