

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: P482585

Luminaire Tested: **IFLD-M-SA4C-827-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482585
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-827-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

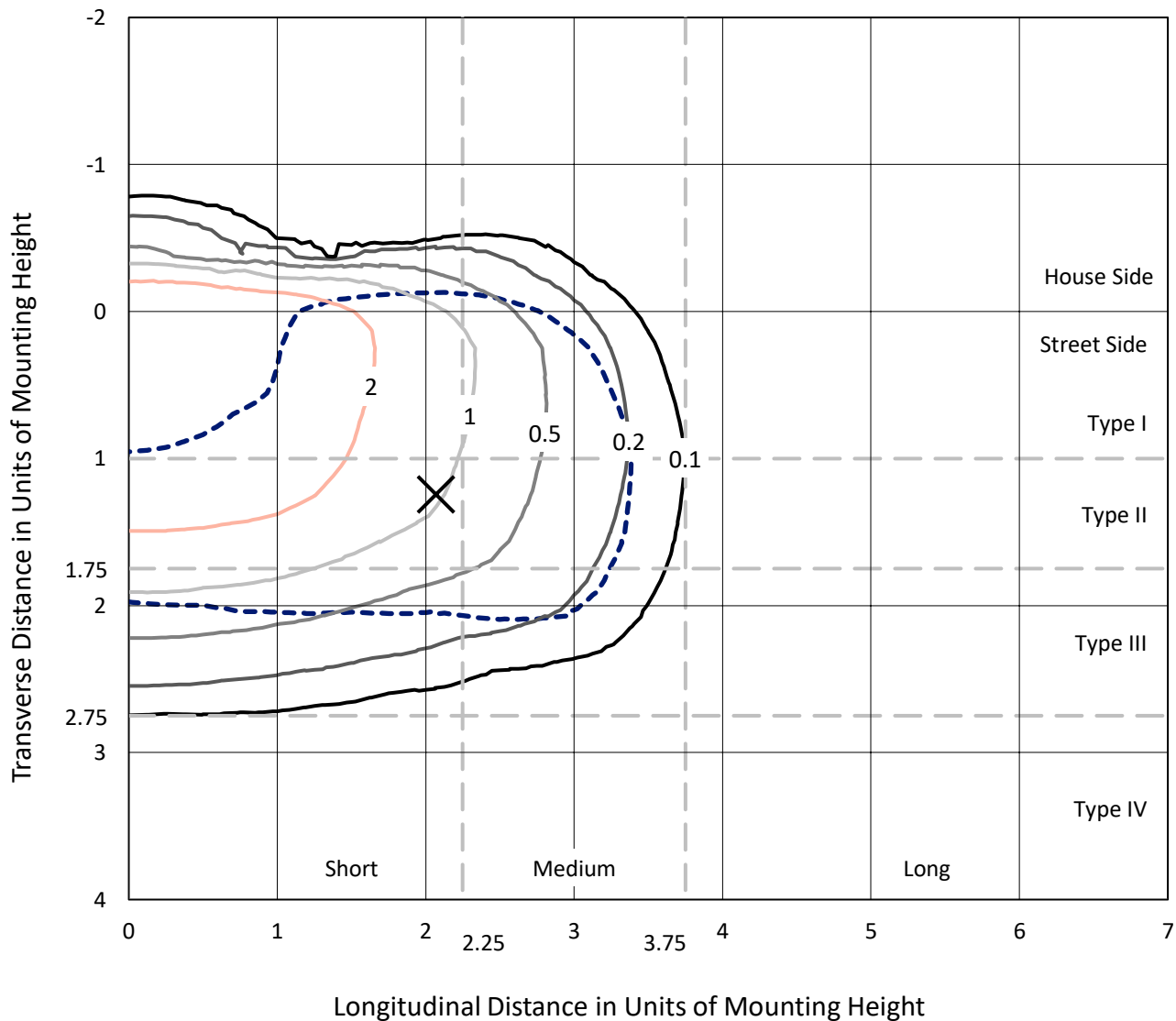
Lumens per Lamp: N/A
Luminaire Lumens: 15508.4 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 218.1
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

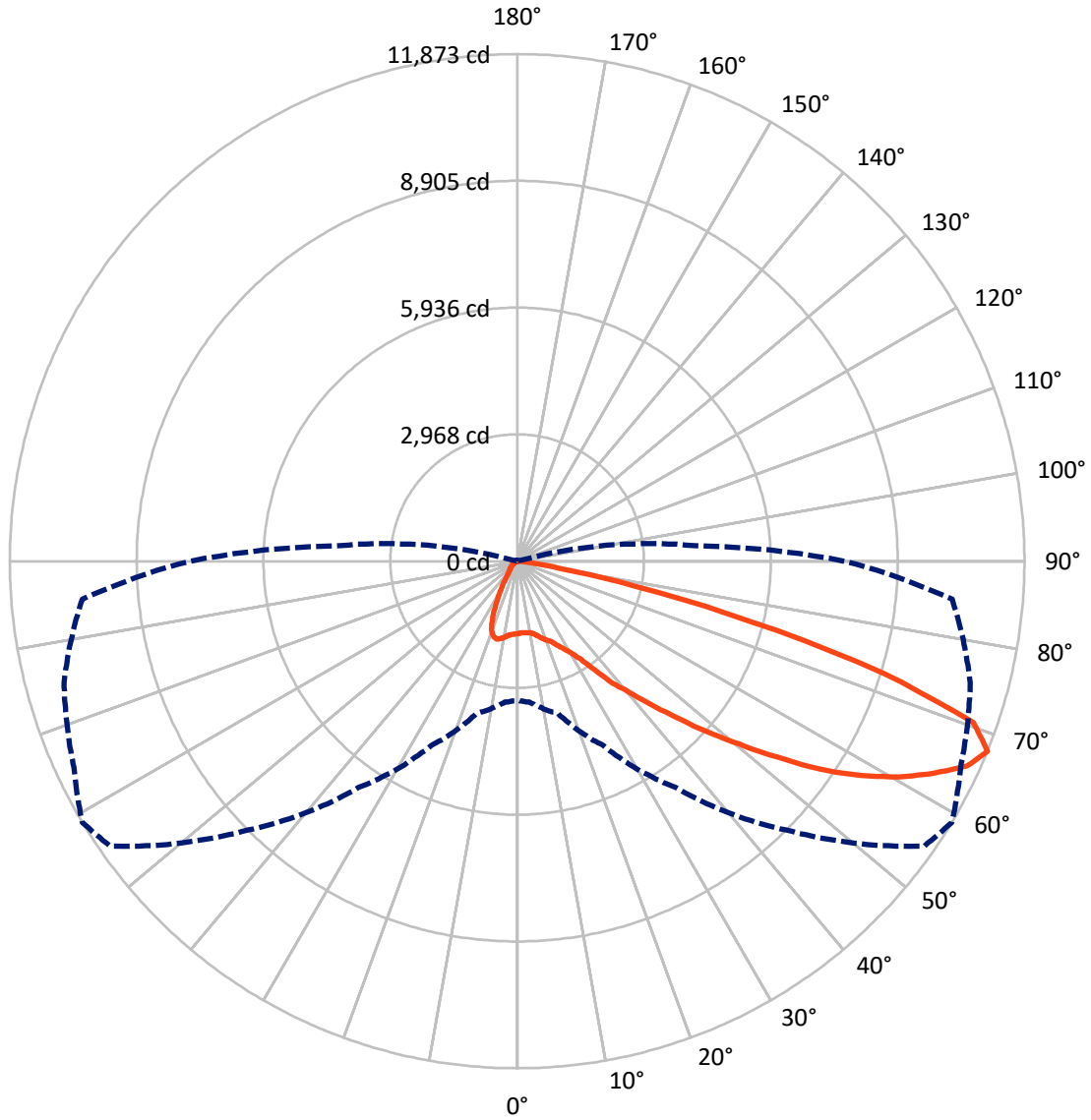
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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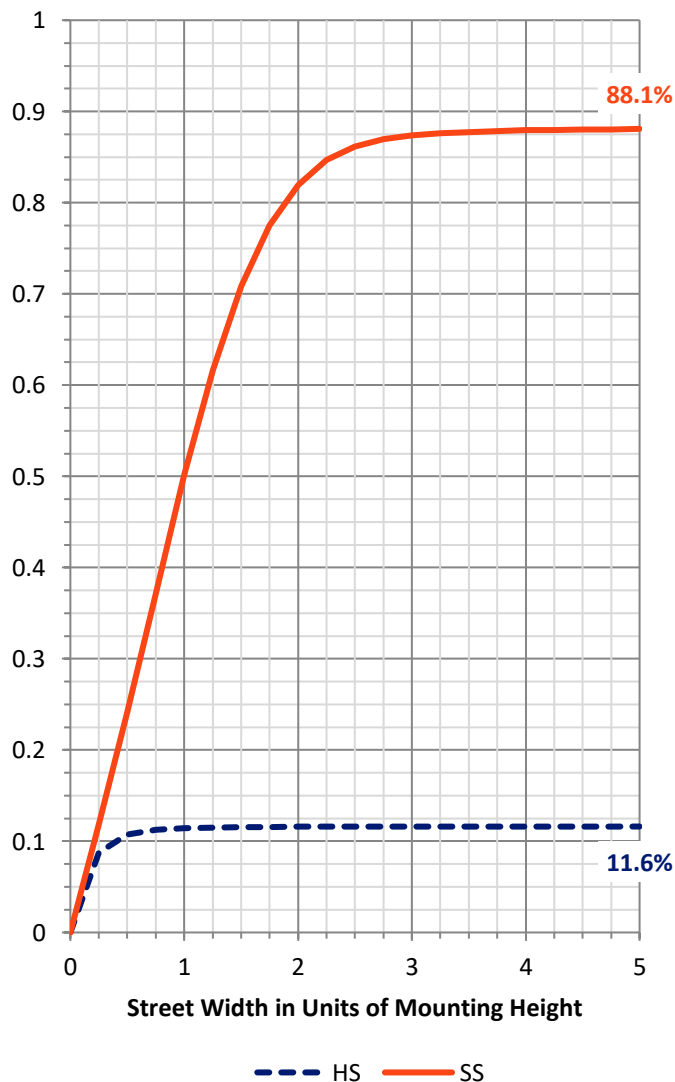
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1821.7	0.0	1821.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	13686.7	0.0	13686.7
	% Fixture	88.3	0.0	88.3
Total	Lumens	15508.4	0.0	15508.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	1.0
10°-20°	466.7	3.0
20°-30°	815.7	5.3
30°-40°	1436.2	9.3
40°-50°	2538.7	16.4
50°-60°	4019.7	25.9
60°-70°	4458.9	28.8
70°-80°	1547.1	10.0
80°-90°	63.7	0.4
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°	15508.4	100.0
0°-180°	15508.4	100.0

Coefficient of Utilization

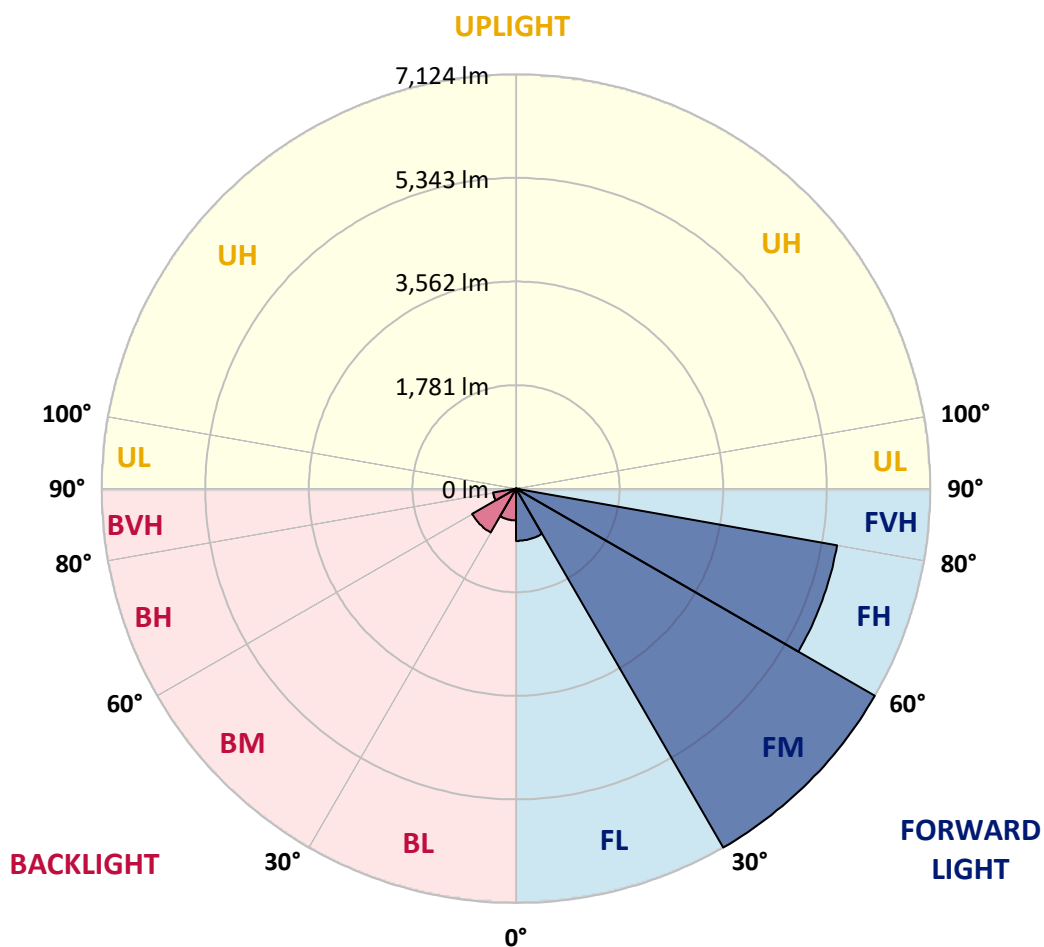


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	898.1	5.8			
FM (30°-60°)	7123.6	45.9			
FH (60°-80°)	5605.5	36.1			G3/7500
FVH (80°-90°)	59.6	0.4			G1/100
BL (0°-30°)	546.0	3.5	B2/1000		
BM (30°-60°)	871.0	5.6	B1/1000		
BH (60°-80°)	400.6	2.6	B1/500		G1/500
BVH (80°-90°)	4.1	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°	59°	65°	75°	85°
0°	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0
2.5°	1651.7	1628.2	1649.6	1651.7	1653.9	1673.1	1694.6	1679.6	1677.4	1694.6	1709.6
5°	1585.3	1574.6	1600.3	1613.2	1634.6	1651.7	1686.0	1688.1	1690.3	1709.6	1735.3
7.5°	1557.5	1531.8	1561.7	1576.7	1591.7	1632.4	1673.1	1694.6	1724.6	1748.1	1773.8
10°	1501.8	1521.0	1529.6	1555.3	1598.2	1645.3	1694.6	1705.3	1771.7	1791.0	1853.1
12.5°	1521.0	1533.9	1551.0	1557.5	1604.6	1675.3	1741.7	1746.0	1814.5	1898.1	1930.2
15°	1570.3	1561.7	1568.2	1576.7	1632.4	1690.3	1797.4	1816.7	1880.9	1975.2	2054.5
17.5°	1675.3	1660.3	1649.6	1647.4	1660.3	1713.8	1840.2	1898.1	1958.1	2086.6	2127.3
20°	1938.8	1925.9	1883.1	1771.7	1733.1	1754.6	1891.7	1973.1	2056.6	2200.2	2266.6
22.5°	2339.4	2352.3	2251.6	2095.2	1934.5	1851.0	1973.1	2043.8	2176.6	2358.7	2418.7
25°	2812.9	2787.1	2665.0	2482.9	2230.1	2033.1	2103.7	2183.0	2345.8	2495.8	2519.4
27.5°	3183.5	3153.5	3059.2	2838.6	2620.0	2300.8	2275.1	2324.4	2517.2	2652.2	2626.5
30°	3549.8	3560.5	3496.2	3234.9	2965.0	2628.6	2465.8	2487.2	2635.0	2808.6	2750.7
32.5°	4016.8	3991.1	3954.7	3725.5	3406.3	3046.4	2767.9	2733.6	2797.9	3027.1	2958.5
35°	4451.7	4436.7	4387.4	4156.1	3877.6	3485.5	3213.5	3136.3	3121.3	3376.3	3256.3
37.5°	4830.9	4805.2	4730.2	4582.4	4312.5	3982.6	3684.8	3616.2	3614.1	3789.7	3558.4
40°	5150.1	5169.4	5160.8	4998.0	4850.2	4586.7	4130.4	4021.1	4012.5	4106.8	3971.8
42.5°	5563.6	5608.6	5585.0	5552.9	5375.1	5272.2	4755.9	4588.8	4513.8	4706.7	4584.5
45°	6189.1	6206.3	6221.3	6142.0	5964.2	5985.6	5402.9	5203.7	5184.4	5471.5	5197.2
47.5°	6774.0	6729.0	6834.0	6838.2	6829.7	6731.1	6101.3	5953.5	5979.2	6197.7	5914.9
50°	6919.7	7035.3	7324.6	7378.1	7517.4	7607.3	6876.8	6729.0	6771.8	7020.3	6696.9
52.5°	7033.2	7208.9	7498.1	7890.1	8265.0	8479.3	7744.4	7624.5	7622.3	7774.4	7328.8
55°	7232.4	7339.6	7590.2	8130.1	8843.5	9194.8	8789.9	8597.1	8423.6	8530.7	7984.4
57.5°	7213.2	7253.9	7643.8	8310.0	9301.9	9940.3	9649.0	9464.7	9241.9	9179.8	8738.5
60°	6874.7	6971.1	7408.1	8187.9	9584.7	10520.9	10450.2	10261.7	9878.2	9732.5	9316.9
62.5°	6204.1	6332.7	6675.4	7759.4	9173.4	10550.9	11002.9	10932.2	10503.7	10242.4	10071.0
65°	5028.0	5088.0	5482.2	6671.1	8243.6	10090.3	11656.3	11568.5	11174.3	10784.4	10458.8
67.5°	3256.3	3314.2	3693.3	4762.4	6474.1	8901.3	11630.6	11872.7	11446.4	10977.2	10216.7
70°	1538.2	1523.2	1876.7	2645.8	4147.5	6797.5	10844.4	11322.1	10960.1	9951.0	8485.7
72.5°	469.2	509.9	779.8	1171.8	2129.5	4239.6	8500.7	8948.4	8834.9	7950.1	5664.3
75°	207.8	224.9	306.4	479.9	863.4	1739.6	5250.8	5649.3	5600.0	4689.5	2585.8
77.5°	132.8	145.7	192.8	274.2	392.0	552.7	2418.7	2806.4	2720.7	1647.4	677.0
80°	94.3	100.7	137.1	188.5	246.4	227.1	833.4	989.7	949.0	447.7	182.1
82.5°	51.4	55.7	100.7	139.3	165.0	115.7	233.5	291.4	304.2	199.2	87.8
85°	19.3	23.6	62.1	98.5	85.7	53.6	68.6	83.6	109.3	109.3	40.7
87.5°	0.0	2.1	25.7	42.8	21.4	15.0	19.3	23.6	30.0	51.4	15.0
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°	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0	1701.0
2.5°	1720.3	1705.3	1711.7	1722.4	1698.9	1711.7	1686.0	1705.3	1711.7	1686.0	1698.9
5°	1741.7	1756.7	1748.1	1731.0	1716.0	1720.3	1713.8	1698.9	1711.7	1716.0	1707.4
7.5°	1803.8	1786.7	1791.0	1771.7	1741.7	1739.6	1698.9	1688.1	1692.4	1696.7	1681.7
10°	1861.7	1872.4	1851.0	1836.0	1786.7	1754.6	1698.9	1638.9	1632.4	1606.7	1628.2
12.5°	1964.5	1938.8	1930.2	1880.9	1831.7	1724.6	1604.6	1512.5	1435.3	1407.5	1379.6
15°	2050.2	2045.9	2030.9	1955.9	1842.4	1647.4	1420.4	1206.1	1058.3	966.2	953.3
17.5°	2168.0	2148.7	2120.9	2003.1	1763.1	1446.1	1058.3	788.4	640.6	582.7	561.3
20°	2258.0	2243.0	2204.4	1992.3	1619.6	1077.6	655.5	501.3	464.9	454.2	456.3
22.5°	2388.7	2341.5	2268.7	1938.8	1358.2	717.7	471.3	447.7	441.3	432.7	434.9
25°	2502.2	2459.4	2307.3	1846.7	968.3	475.6	437.0	424.2	413.5	402.8	400.6
27.5°	2602.9	2549.3	2348.0	1658.1	606.3	409.2	404.9	389.9	368.5	351.3	344.9
30°	2701.5	2639.3	2358.7	1304.7	409.2	370.6	359.9	336.3	308.5	284.9	280.6
32.5°	2866.4	2791.4	2343.7	931.9	353.5	329.9	306.4	278.5	237.8	218.5	214.2
35°	3123.5	3009.9	2324.4	548.4	317.1	291.4	254.9	218.5	188.5	169.2	165.0
37.5°	3419.1	3222.0	2268.7	366.3	291.4	257.1	209.9	173.5	147.8	132.8	128.5
40°	3858.3	3532.7	2054.5	299.9	259.2	218.5	169.2	137.1	117.8	107.1	102.8
42.5°	4342.5	3888.3	1724.6	269.9	229.2	186.4	135.0	111.4	96.4	85.7	85.7
45°	4923.0	4258.9	1330.4	246.4	203.5	154.2	111.4	90.0	77.1	68.6	64.3
47.5°	5570.0	4595.3	897.6	222.8	171.4	126.4	92.1	68.6	55.7	49.3	49.3
50°	6148.4	4893.0	572.0	195.0	150.0	105.0	75.0	55.7	45.0	36.4	34.3
52.5°	6673.3	5120.1	394.2	171.4	128.5	85.7	62.1	45.0	34.3	27.9	27.9
55°	7211.0	5235.8	291.4	147.8	111.4	72.8	51.4	40.7	30.0	23.6	21.4
57.5°	7652.3	5285.1	222.8	128.5	94.3	57.8	45.0	34.3	25.7	19.3	17.1
60°	8029.4	5261.5	173.5	107.1	75.0	49.3	38.6	27.9	21.4	15.0	12.9
62.5°	8250.0	5120.1	137.1	92.1	60.0	42.8	32.1	23.6	15.0	10.7	8.6
65°	8254.3	4820.2	107.1	68.6	45.0	36.4	27.9	19.3	10.7	4.3	2.1
67.5°	7663.0	4171.1	85.7	53.6	36.4	27.9	21.4	15.0	4.3	0.0	0.0
70°	5994.2	3155.6	70.7	42.8	30.0	23.6	15.0	8.6	2.1	0.0	0.0
72.5°	3819.7	1889.5	57.8	34.3	25.7	17.1	10.7	6.4	0.0	0.0	0.0
75°	1598.2	582.7	45.0	30.0	19.3	12.9	8.6	2.1	0.0	0.0	0.0
77.5°	411.3	184.2	36.4	25.7	19.3	10.7	6.4	2.1	0.0	0.0	0.0
80°	122.1	68.6	30.0	21.4	15.0	8.6	4.3	2.1	0.0	0.0	0.0
82.5°	55.7	40.7	25.7	19.3	12.9	8.6	4.3	0.0	0.0	0.0	0.0
85°	21.4	12.9	12.9	10.7	10.7	6.4	2.1	0.0	0.0	0.0	0.0
87.5°	8.6	4.3	4.3	4.3	2.1	2.1	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)