

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: P482410

Luminaire Tested: **IFLD-S-SA3D-735-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482410
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

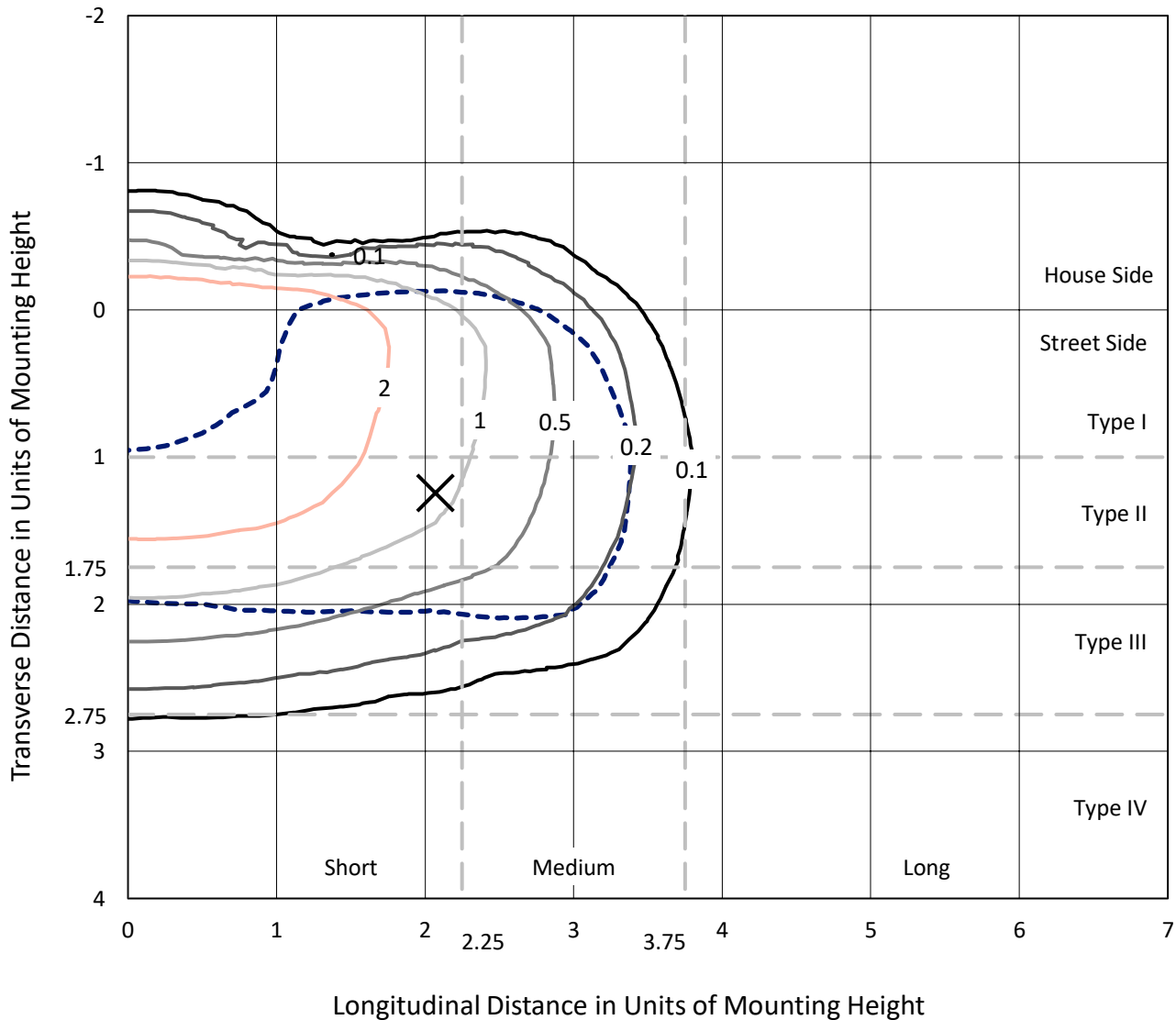
Lumens per Lamp: N/A
Luminaire Lumens: 17057.4 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
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

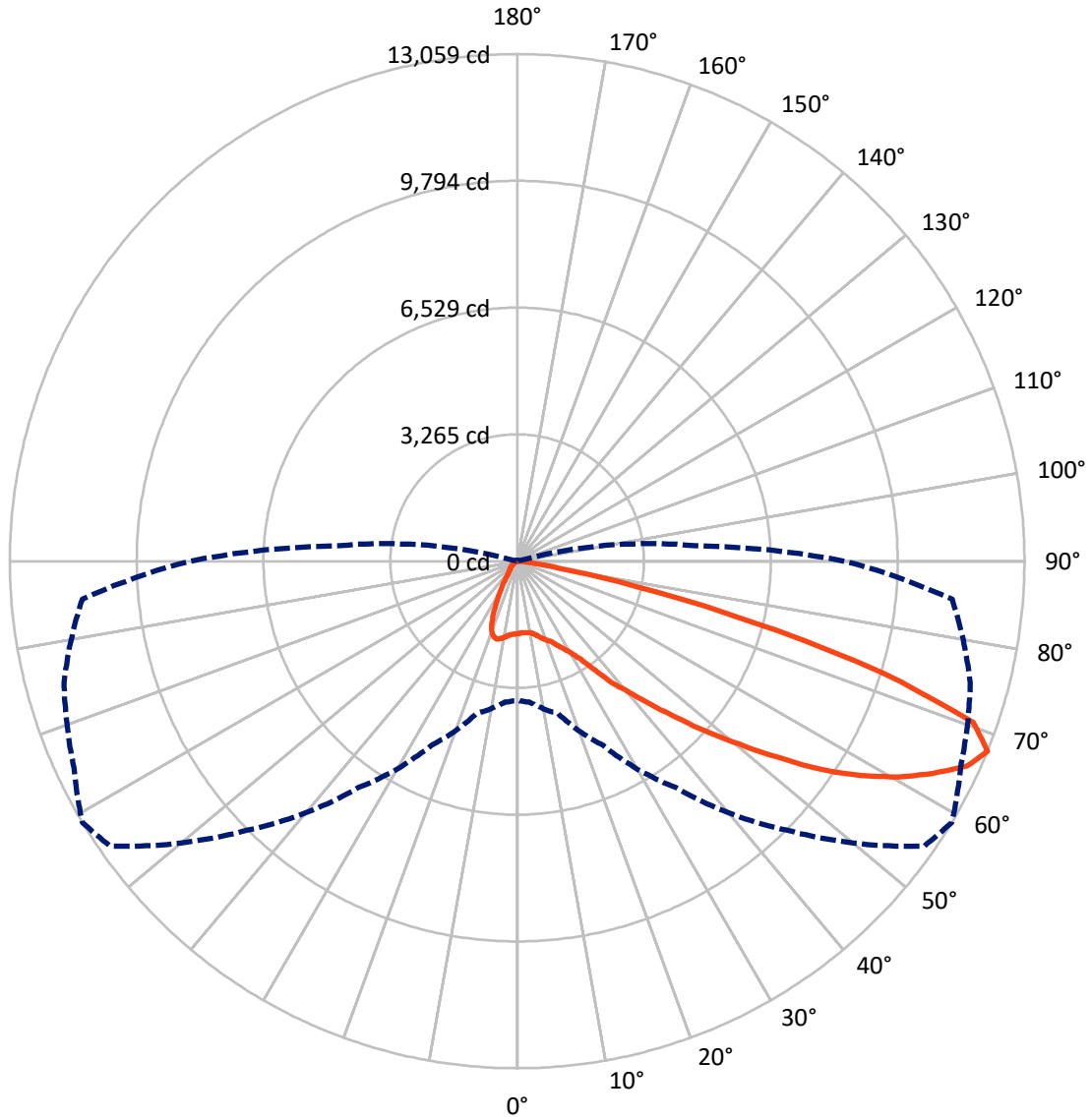
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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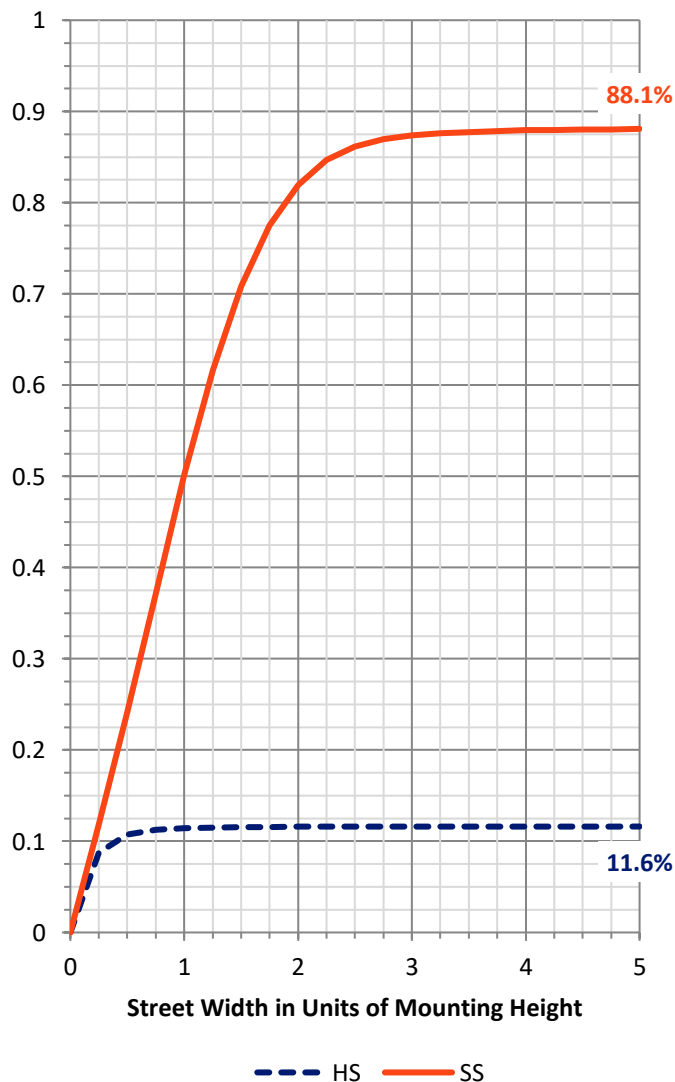
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2003.7	0.0	2003.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	15053.7	0.0	15053.7
	% Fixture	88.3	0.0	88.3
Total	Lumens	17057.4	0.0	17057.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.7	1.0
10°-20°	513.3	3.0
20°-30°	897.2	5.3
30°-40°	1579.6	9.3
40°-50°	2792.3	16.4
50°-60°	4421.2	25.9
60°-70°	4904.3	28.8
70°-80°	1701.7	10.0
80°-90°	70.1	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°	17057.4	100.0
0°-180°	17057.4	100.0

Coefficient of Utilization

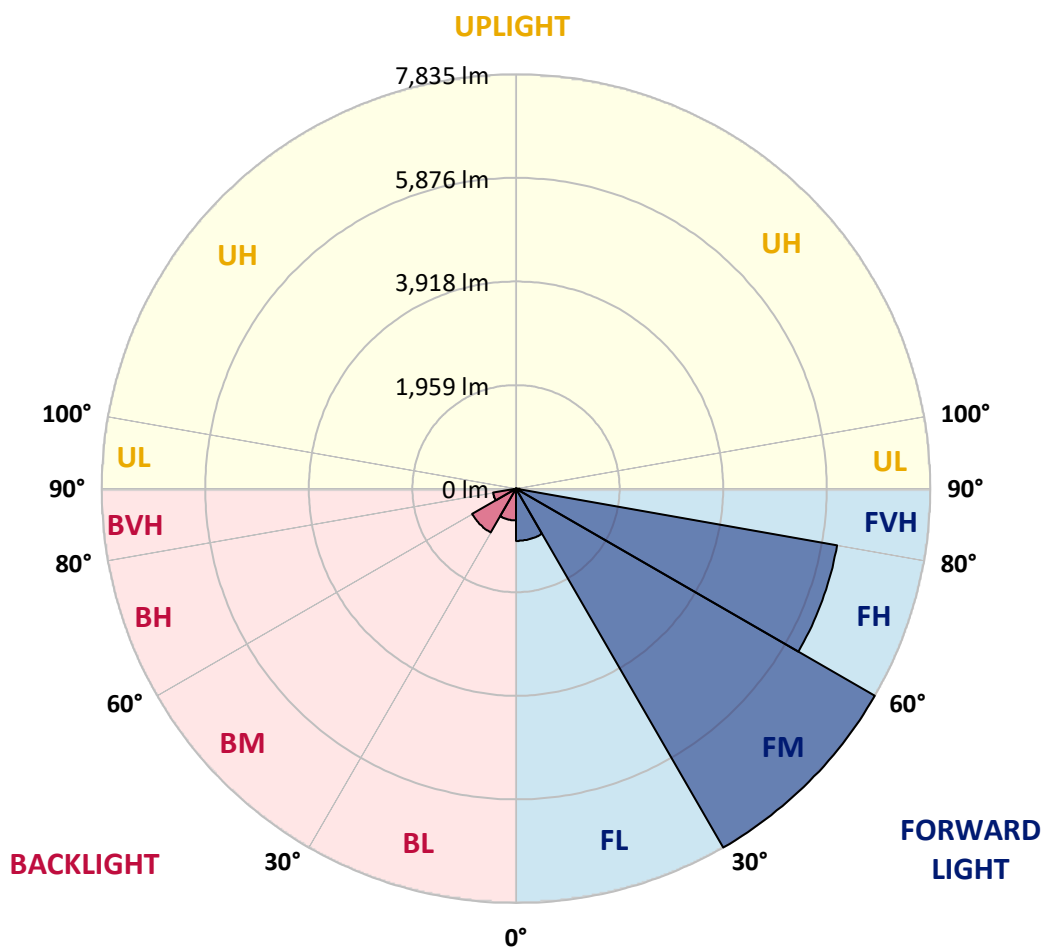


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	987.8	5.8			
FM (30°-60°)	7835.1	45.9			
FH (60°-80°)	6165.3	36.1			G3/7500
FVH (80°-90°)	65.5	0.4			G1/100
BL (0°-30°)	600.5	3.5	B2/1000		
BM (30°-60°)	958.0	5.6	B1/1000		
BH (60°-80°)	440.7	2.6	B1/500		G1/500
BVH (80°-90°)	4.5	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°	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9
2.5°	1816.7	1790.8	1814.3	1816.7	1819.1	1840.3	1863.8	1847.3	1845.0	1863.8	1880.3
5°	1743.7	1731.9	1760.1	1774.3	1797.8	1816.7	1854.4	1856.8	1859.1	1880.3	1908.6
7.5°	1713.0	1684.7	1717.7	1734.2	1750.7	1795.5	1840.3	1863.8	1896.8	1922.7	1951.0
10°	1651.8	1673.0	1682.4	1710.7	1757.8	1809.6	1863.8	1875.6	1948.7	1969.9	2038.2
12.5°	1673.0	1687.1	1706.0	1713.0	1764.9	1842.6	1915.7	1920.4	1995.8	2087.7	2123.0
15°	1727.2	1717.7	1724.8	1734.2	1795.5	1859.1	1976.9	1998.1	2068.8	2172.5	2259.7
17.5°	1842.6	1826.1	1814.3	1812.0	1826.1	1885.0	2024.1	2087.7	2153.6	2295.0	2339.8
20°	2132.4	2118.3	2071.2	1948.7	1906.2	1929.8	2080.6	2170.1	2262.0	2419.9	2493.0
22.5°	2573.1	2587.2	2476.5	2304.5	2127.7	2035.8	2170.1	2247.9	2394.0	2594.3	2660.3
25°	3093.8	3065.5	2931.2	2730.9	2452.9	2236.1	2313.9	2401.1	2580.1	2745.1	2771.0
27.5°	3501.4	3468.5	3364.8	3122.1	2881.7	2530.7	2502.4	2556.6	2768.6	2917.1	2888.8
30°	3904.4	3916.2	3845.5	3558.0	3261.1	2891.2	2712.1	2735.7	2898.2	3089.1	3025.5
32.5°	4418.0	4389.8	4349.7	4097.6	3746.5	3350.6	3044.3	3006.6	3077.3	3329.4	3254.0
35°	4896.4	4879.9	4825.7	4571.2	4264.9	3833.7	3534.4	3449.6	3433.1	3713.5	3581.6
37.5°	5313.4	5285.2	5202.7	5040.1	4743.2	4380.3	4052.8	3977.4	3975.1	4168.3	3913.8
40°	5664.5	5685.7	5676.3	5497.2	5334.6	5044.8	4542.9	4422.8	4413.3	4517.0	4368.6
42.5°	6119.3	6168.8	6142.8	6107.5	5911.9	5798.8	5231.0	5047.2	4964.7	5176.8	5042.5
45°	6807.3	6826.2	6842.7	6755.5	6559.9	6583.5	5942.6	5723.4	5702.2	6018.0	5716.4
47.5°	7450.6	7401.1	7516.6	7521.3	7511.9	7403.5	6710.7	6548.1	6576.4	6816.7	6505.7
50°	7610.8	7738.1	8056.2	8115.1	8268.2	8367.2	7563.7	7401.1	7448.2	7721.6	7365.8
52.5°	7735.7	7928.9	8247.0	8678.2	9090.6	9326.2	8518.0	8386.0	8383.7	8551.0	8060.9
55°	7954.8	8072.6	8348.3	8942.1	9726.8	10113.2	9667.9	9455.8	9264.9	9382.7	8781.9
57.5°	7933.6	7978.4	8407.2	9140.0	10231.0	10933.2	10612.7	10410.1	10165.0	10096.7	9611.3
60°	7561.3	7667.4	8148.1	9005.7	10542.0	11571.7	11494.0	11286.6	10864.9	10704.6	10247.5
62.5°	6823.8	6965.2	7342.2	8534.5	10089.6	11604.7	12101.9	12024.1	11552.9	11265.4	11076.9
65°	5530.2	5596.2	6029.7	7337.5	9067.0	11098.1	12820.6	12724.0	12290.4	11861.6	11503.4
67.5°	3581.6	3645.2	4062.2	5238.0	7120.7	9790.4	12792.3	13058.6	12589.7	12073.6	11237.1
70°	1691.8	1675.3	2064.1	2910.0	4561.8	7476.5	11927.5	12453.0	12054.8	10945.0	9333.3
72.5°	516.0	560.8	857.7	1288.9	2342.2	4663.1	9349.8	9842.2	9717.3	8744.2	6230.0
75°	228.6	247.4	336.9	527.8	949.6	1913.3	5775.3	6213.5	6159.3	5157.9	2844.0
77.5°	146.1	160.2	212.1	301.6	431.2	607.9	2660.3	3086.7	2992.5	1812.0	744.6
80°	103.7	110.7	150.8	207.4	271.0	249.8	916.6	1088.6	1043.8	492.5	200.3
82.5°	56.6	61.3	110.7	153.2	181.4	127.2	256.8	320.5	334.6	219.1	96.6
85°	21.2	25.9	68.3	108.4	94.3	58.9	75.4	91.9	120.2	120.2	44.8
87.5°	0.0	2.4	28.3	47.1	23.6	16.5	21.2	25.9	33.0	56.6	16.5
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°	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9	1870.9
2.5°	1892.1	1875.6	1882.7	1894.5	1868.5	1882.7	1854.4	1875.6	1882.7	1854.4	1868.5
5°	1915.7	1932.2	1922.7	1903.9	1887.4	1892.1	1885.0	1868.5	1882.7	1887.4	1878.0
7.5°	1984.0	1965.1	1969.9	1948.7	1915.7	1913.3	1868.5	1856.8	1861.5	1866.2	1849.7
10°	2047.6	2059.4	2035.8	2019.3	1965.1	1929.8	1868.5	1802.6	1795.5	1767.2	1790.8
12.5°	2160.7	2132.4	2123.0	2068.8	2014.6	1896.8	1764.9	1663.5	1578.7	1548.1	1517.5
15°	2255.0	2250.3	2233.8	2151.3	2026.4	1812.0	1562.2	1326.6	1164.0	1062.7	1048.5
17.5°	2384.6	2363.4	2332.7	2203.1	1939.2	1590.5	1164.0	867.1	704.5	640.9	617.3
20°	2483.5	2467.0	2424.6	2191.3	1781.4	1185.2	721.0	551.4	511.3	499.5	501.9
22.5°	2627.3	2575.4	2495.3	2132.4	1493.9	789.4	518.4	492.5	485.4	476.0	478.3
25°	2752.1	2705.0	2537.7	2031.1	1065.0	523.1	480.7	466.5	454.8	443.0	440.6
27.5°	2862.9	2804.0	2582.5	1823.8	666.8	450.1	445.3	428.8	405.3	386.4	379.4
30°	2971.3	2902.9	2594.3	1435.0	450.1	407.6	395.9	369.9	339.3	313.4	308.7
32.5°	3152.7	3070.2	2577.8	1025.0	388.8	362.9	336.9	306.3	261.5	240.3	235.6
35°	3435.5	3310.6	2556.6	603.2	348.7	320.5	280.4	240.3	207.4	186.1	181.4
37.5°	3760.6	3543.9	2495.3	402.9	320.5	282.8	230.9	190.9	162.6	146.1	141.4
40°	4243.7	3885.5	2259.7	329.9	285.1	240.3	186.1	150.8	129.6	117.8	113.1
42.5°	4776.2	4276.7	1896.8	296.9	252.1	205.0	148.4	122.5	106.0	94.3	94.3
45°	5414.8	4684.3	1463.3	271.0	223.8	169.7	122.5	99.0	84.8	75.4	70.7
47.5°	6126.4	5054.2	987.3	245.1	188.5	139.0	101.3	75.4	61.3	54.2	54.2
50°	6762.6	5381.8	629.1	214.4	164.9	115.5	82.5	61.3	49.5	40.1	37.7
52.5°	7339.8	5631.5	433.6	188.5	141.4	94.3	68.3	49.5	37.7	30.6	30.6
55°	7931.3	5758.8	320.5	162.6	122.5	80.1	56.6	44.8	33.0	25.9	23.6
57.5°	8416.7	5813.0	245.1	141.4	103.7	63.6	49.5	37.7	28.3	21.2	18.9
60°	8831.4	5787.0	190.9	117.8	82.5	54.2	42.4	30.6	23.6	16.5	14.1
62.5°	9074.1	5631.5	150.8	101.3	66.0	47.1	35.3	25.9	16.5	11.8	9.4
65°	9078.8	5301.7	117.8	75.4	49.5	40.1	30.6	21.2	11.8	4.7	2.4
67.5°	8428.4	4587.7	94.3	58.9	40.1	30.6	23.6	16.5	4.7	0.0	0.0
70°	6592.9	3470.8	77.8	47.1	33.0	25.9	16.5	9.4	2.4	0.0	0.0
72.5°	4201.3	2078.2	63.6	37.7	28.3	18.9	11.8	7.1	0.0	0.0	0.0
75°	1757.8	640.9	49.5	33.0	21.2	14.1	9.4	2.4	0.0	0.0	0.0
77.5°	452.4	202.6	40.1	28.3	21.2	11.8	7.1	2.4	0.0	0.0	0.0
80°	134.3	75.4	33.0	23.6	16.5	9.4	4.7	2.4	0.0	0.0	0.0
82.5°	61.3	44.8	28.3	21.2	14.1	9.4	4.7	0.0	0.0	0.0	0.0
85°	23.6	14.1	14.1	11.8	11.8	7.1	2.4	0.0	0.0	0.0	0.0
87.5°	9.4	4.7	4.7	4.7	2.4	2.4	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)