

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: P482701

Luminaire Tested: **IFLD-M-SA4B-722-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482701
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-722-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

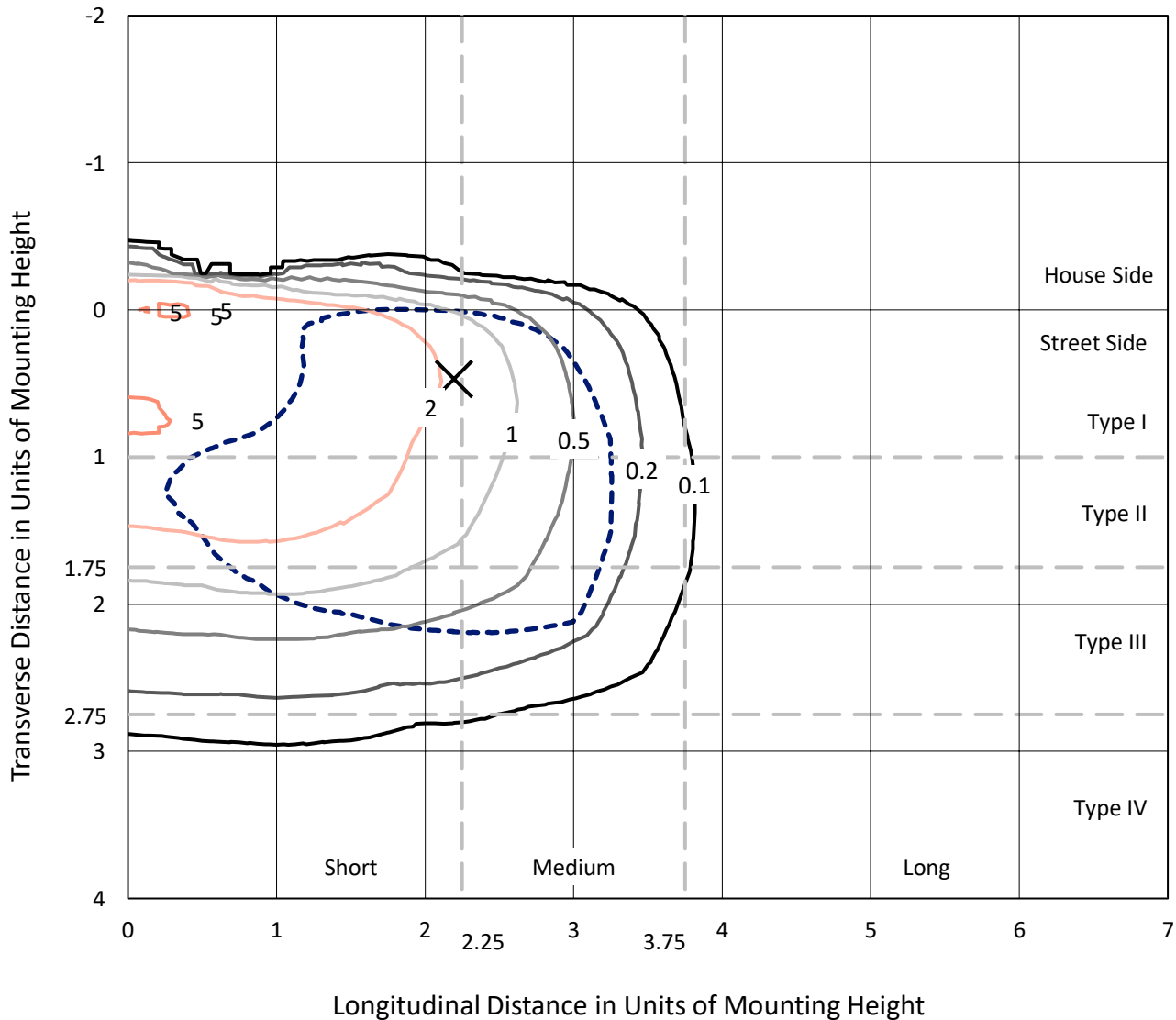
Lumens per Lamp: N/A
Luminaire Lumens: 12059.4 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

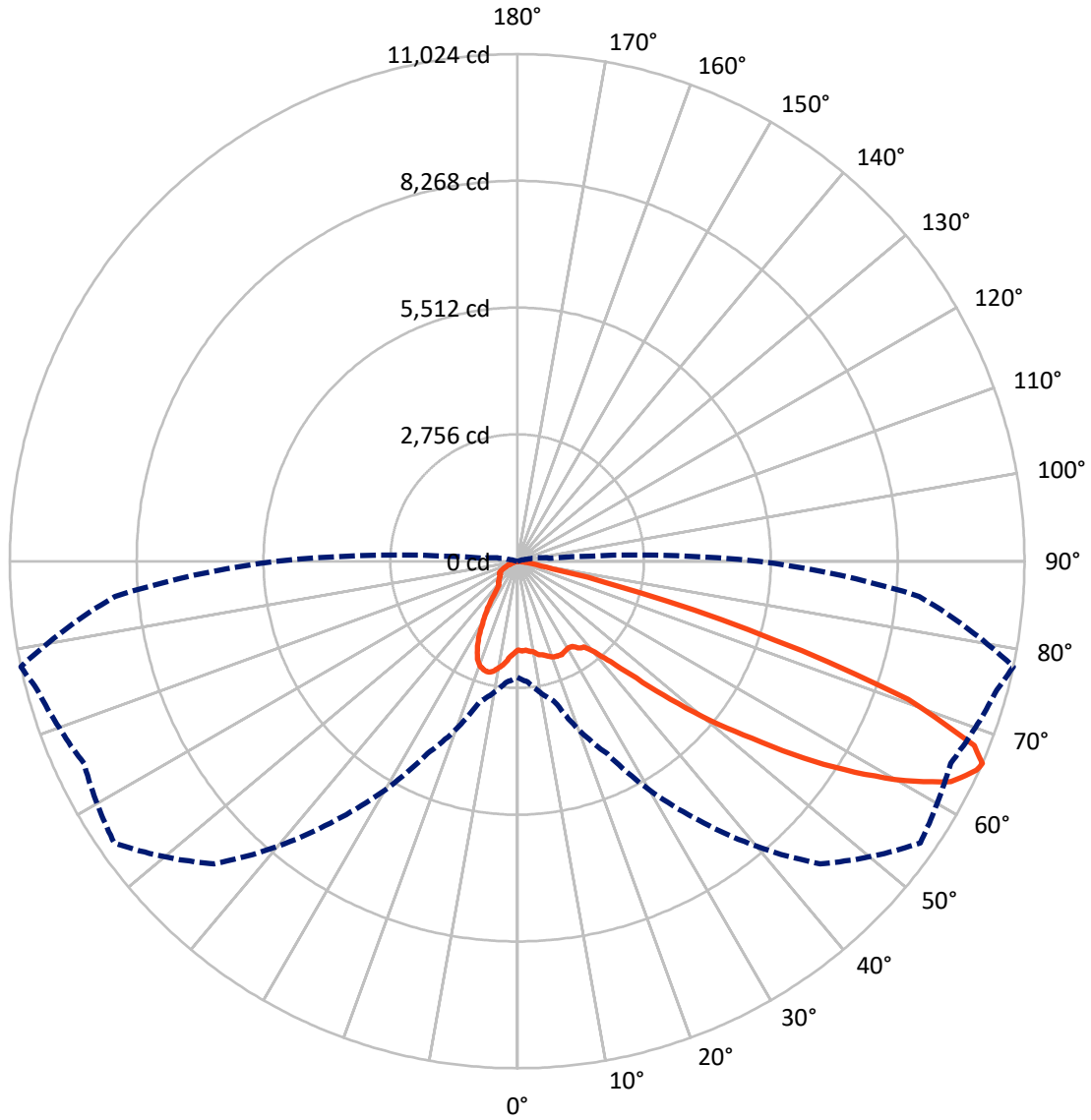
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 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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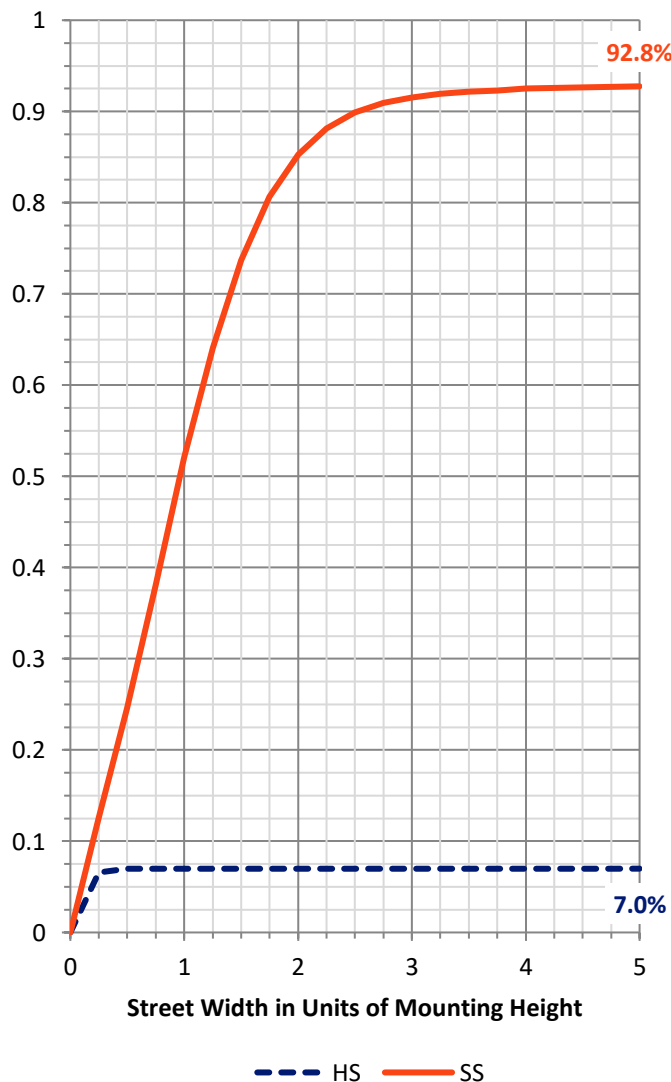
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	847.8	0.0	847.8
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	11211.6	0.0	11211.6
	% Fixture	93.0	0.0	93.0
Total	Lumens	12059.4	0.0	12059.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	1.5
10°-20°	398.9	3.3
20°-30°	570.1	4.7
30°-40°	975.9	8.1
40°-50°	1761.4	14.6
50°-60°	3012.3	25.0
60°-70°	3707.6	30.7
70°-80°	1401.7	11.6
80°-90°	54.8	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°	12059.4	100.0
0°-180°	12059.4	100.0

Coefficient of Utilization

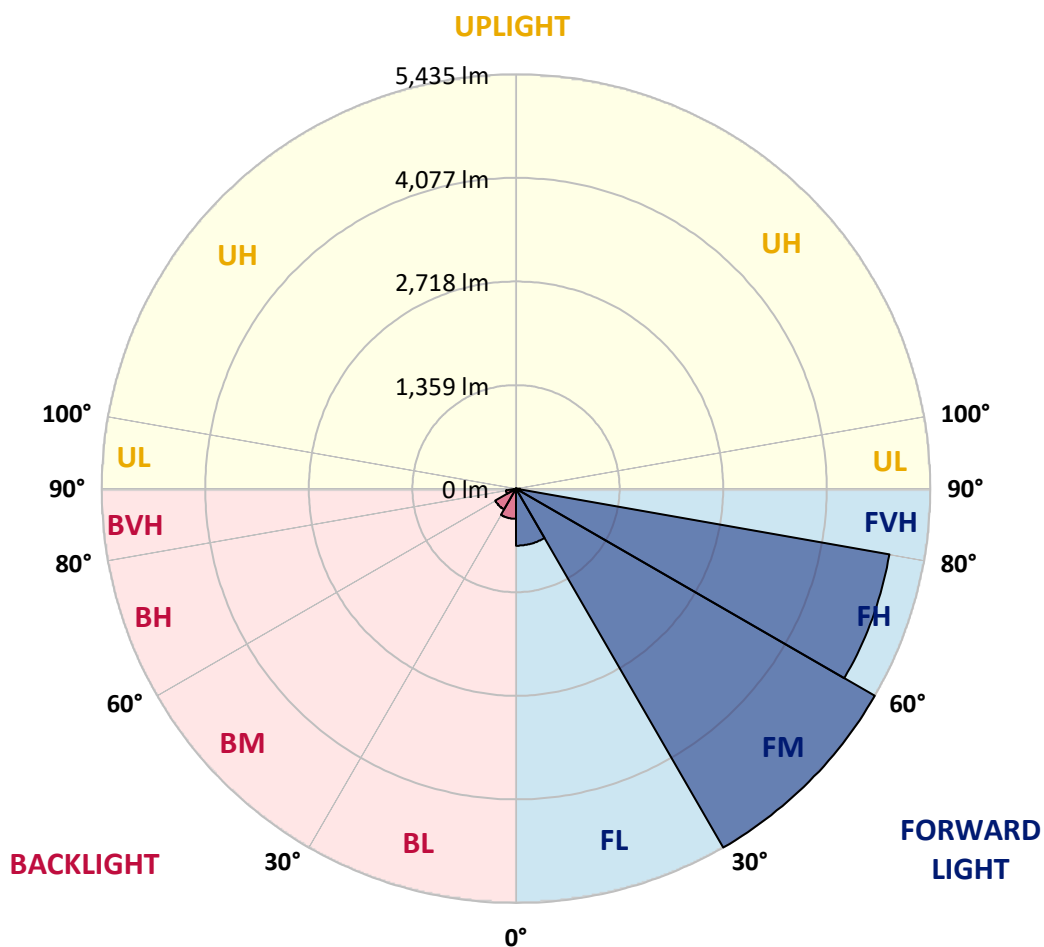


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	748.7	6.2			
FM (30°-60°)	5435.4	45.1			
FH (60°-80°)	4975.0	41.3			G2/5000
FVH (80°-90°)	52.6	0.4			G1/100
BL (0°-30°)	397.1	3.3	B1/500		
BM (30°-60°)	314.2	2.6	B1/1000		
BH (60°-80°)	134.3	1.1	B1/500		G1/500
BVH (80°-90°)	2.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1931.5	1931.5	1931.5	1931.5	1931.5	1931.5	1931.5	1931.5	1931.5	1931.5	1931.5
2.5°	1776.6	1760.2	1776.6	1800.3	1813.1	1824.0	1862.3	1895.1	1929.7	1953.4	1946.1
5°	1647.3	1678.2	1681.9	1689.2	1709.2	1774.8	1796.7	1853.2	1938.8	1946.1	1978.9
7.5°	1545.2	1536.1	1559.8	1607.2	1658.2	1696.5	1760.2	1858.6	1947.9	1978.9	2042.7
10°	1397.6	1415.8	1441.4	1488.7	1550.7	1645.4	1758.4	1867.8	1995.3	2006.2	2124.7
12.5°	1317.4	1299.2	1339.3	1388.5	1494.2	1581.7	1720.2	1851.4	2024.5	2084.6	2221.3
15°	1251.9	1261.0	1299.2	1332.0	1419.5	1530.6	1692.8	1891.4	2073.7	2115.6	2323.3
17.5°	1224.5	1219.1	1248.2	1281.0	1388.5	1514.2	1681.9	1893.3	2117.4	2172.1	2392.5
20°	1237.3	1248.2	1239.1	1270.1	1337.5	1465.0	1698.3	1927.9	2150.2	2224.9	2467.3
22.5°	1437.7	1423.1	1350.2	1291.9	1295.6	1445.0	1685.5	1949.8	2179.3	2239.5	2518.3
25°	1960.7	1882.3	1701.9	1477.8	1330.2	1390.3	1671.0	1942.5	2173.9	2248.6	2549.3
27.5°	2487.3	2419.9	2243.1	1895.1	1470.5	1368.5	1619.9	1947.9	2146.5	2215.8	2498.2
30°	3043.1	3079.5	2817.1	2403.5	1838.6	1488.7	1587.1	1918.8	2128.3	2186.6	2509.2
32.5°	3613.4	3598.8	3440.3	2992.0	2365.2	1754.8	1640.0	1947.9	2152.0	2208.5	2572.9
35°	4059.9	4008.8	3848.5	3444.0	2800.7	2155.7	1822.2	2086.4	2255.9	2323.3	2664.1
37.5°	4280.3	4302.2	4209.3	3857.6	3278.1	2527.4	2050.0	2086.4	2288.7	2367.0	2811.7
40°	4451.6	4517.2	4482.6	4369.6	3751.9	2946.5	2301.4	2215.8	2454.5	2602.1	3088.6
42.5°	4657.5	4626.6	4830.6	4726.8	4371.5	3474.9	2742.4	2523.7	2846.3	2988.4	3504.1
45°	4766.9	4885.3	5040.2	5173.2	4945.4	4134.6	3318.2	3068.6	3445.8	3626.2	4121.8
47.5°	5047.5	5094.9	5346.3	5514.0	5411.9	4889.0	4192.9	3864.9	4200.2	4484.4	4828.8
50°	5211.5	5147.7	5499.4	5754.5	5812.8	5514.0	4976.4	4721.3	5096.7	5459.3	5490.3
52.5°	5067.5	5249.8	5601.4	6058.8	6221.0	6071.6	5896.6	5785.5	6049.7	6385.0	6235.6
55°	4562.8	4686.7	5543.1	6392.3	6915.2	6846.0	7008.2	6935.3	7201.3	7556.7	7106.6
57.5°	4156.4	4311.3	5063.9	6565.4	7562.1	7766.2	7970.3	7924.7	8245.4	8655.4	7844.6
60°	3903.1	3992.4	4717.7	6521.6	7944.8	8717.4	9178.4	8857.7	9380.7	9694.1	8422.2
62.5°	3464.0	3520.5	4212.9	5942.2	8059.6	9389.8	10171.5	9736.0	10189.7	10572.4	8837.7
65°	2777.0	2930.1	3502.3	5074.8	7301.5	9513.7	10791.1	10279.0	10718.2	10969.6	8963.4
66°	2527.4	2638.5	3163.3	4615.6	6869.7	9307.8	10687.2	10392.0	10794.7	11024.3	8770.2
67.5°	2097.3	2193.9	2611.2	3961.5	5985.9	8854.1	10760.1	10315.5	10853.0	10712.7	8511.5
70°	1388.5	1450.5	1785.8	2678.6	4169.2	7243.2	9980.2	9717.8	9541.0	9014.4	6654.7
72.5°	648.7	738.0	1115.2	1623.6	2445.4	5067.5	8137.9	7786.3	6691.1	5849.3	4198.3
75°	293.4	333.5	612.3	931.1	1097.0	2625.8	5249.8	4741.4	3331.0	2766.1	1838.6
77.5°	158.5	180.4	298.8	442.8	399.1	920.2	2598.5	2161.1	1049.6	769.0	533.9
80°	122.1	144.0	249.6	253.3	147.6	238.7	965.8	668.7	262.4	198.6	127.6
82.5°	63.8	91.1	196.8	164.0	74.7	96.6	298.8	185.9	82.0	65.6	54.7
85°	25.5	40.1	111.2	109.3	43.7	32.8	83.8	56.5	32.8	27.3	25.5
87.5°	1.8	1.8	60.1	41.9	27.3	9.1	12.8	12.8	16.4	14.6	18.2
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°	1931.5	1931.5	1931.5	1931.5	1931.5	1931.5	1931.5	1931.5	1931.5	1931.5	1931.5
2.5°	1978.9	2000.8	2004.4	2064.6	2077.3	2064.6	2097.3	2091.9	2106.5	2095.5	2075.5
5°	2024.5	2055.4	2115.6	2161.1	2161.1	2124.7	2095.5	2057.3	2000.8	1986.2	1975.3
7.5°	2102.8	2201.2	2255.9	2226.7	2168.4	2031.8	1842.2	1703.8	1587.1	1543.4	1523.4
10°	2241.3	2296.0	2359.7	2241.3	1999.0	1709.2	1390.3	1180.8	1016.8	980.3	953.0
12.5°	2330.6	2418.1	2454.5	2161.1	1685.5	1253.7	907.5	670.6	555.8	468.3	453.7
15°	2447.2	2547.4	2472.7	1944.3	1328.4	821.8	470.1	293.4	238.7	224.1	224.1
17.5°	2527.4	2636.7	2398.0	1674.6	942.1	437.3	233.2	202.3	198.6	200.4	196.8
20°	2667.7	2733.3	2285.0	1361.2	563.1	224.1	187.7	180.4	176.8	182.2	178.6
22.5°	2720.5	2780.7	2101.0	985.8	253.3	149.4	140.3	134.8	138.5	136.7	134.8
25°	2716.9	2747.9	1798.5	564.9	74.7	58.3	52.8	52.8	49.2	51.0	49.2
27.5°	2744.2	2667.7	1459.6	167.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2758.8	2538.3	1038.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2766.1	2470.9	668.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2822.6	2336.1	286.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2860.9	2162.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3019.4	2108.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3225.3	2006.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3511.4	1855.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3890.4	1765.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4172.8	1625.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4531.8	1541.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4958.2	1545.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5346.3	1519.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5544.9	1299.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5503.0	1051.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5357.3	825.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5257.0	730.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4952.7	584.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3941.4	400.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2507.3	246.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1155.3	113.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	362.6	69.2	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	94.8	43.7	14.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.2	31.0	12.8	5.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.0	12.8	5.5	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.3	7.3	3.6	3.6	1.8	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)