

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: P482798

Luminaire Tested: **IFLD-S-SA3B-735-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482798
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

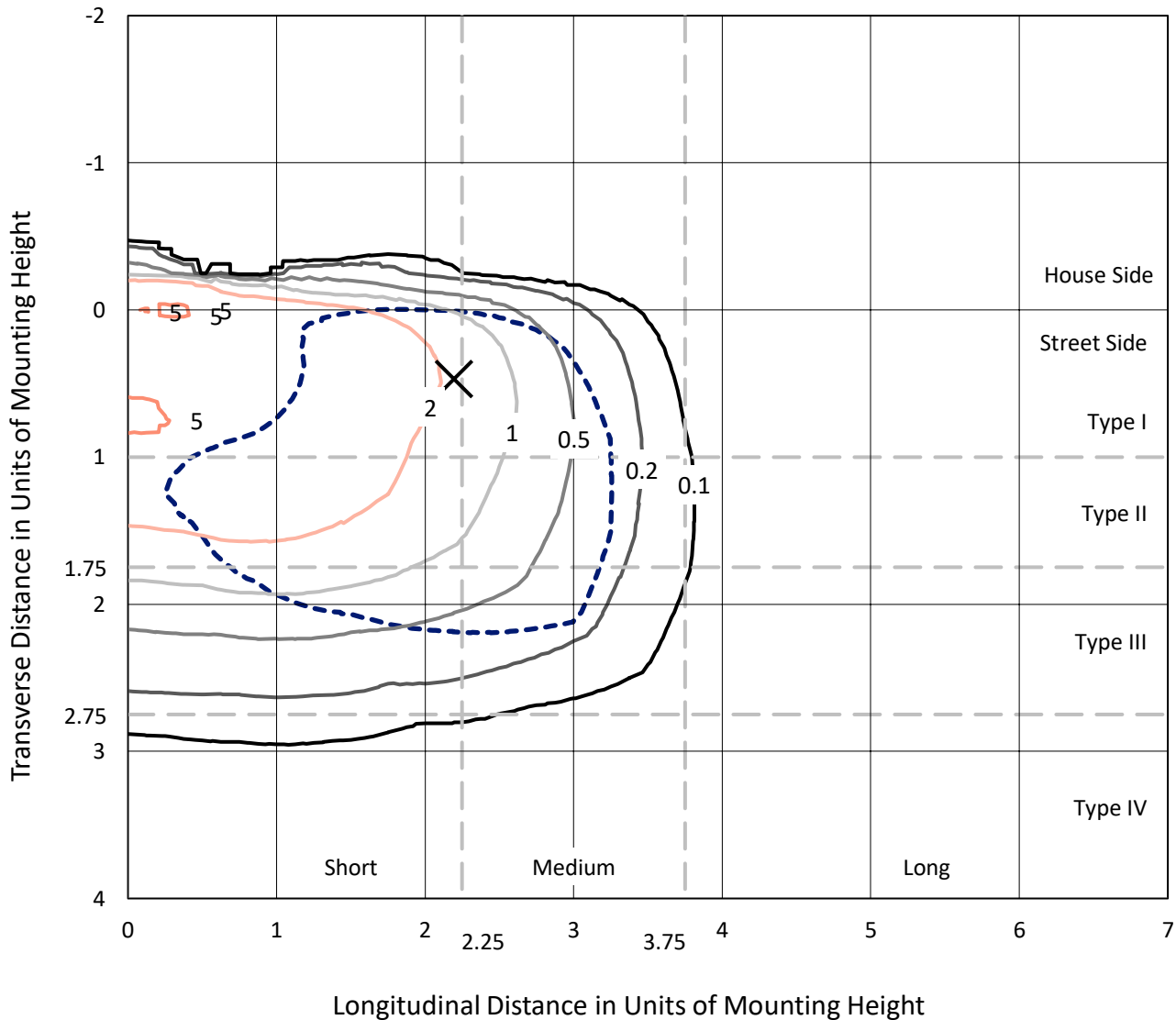
Lumens per Lamp: N/A
Luminaire Lumens: 12030.2 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
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

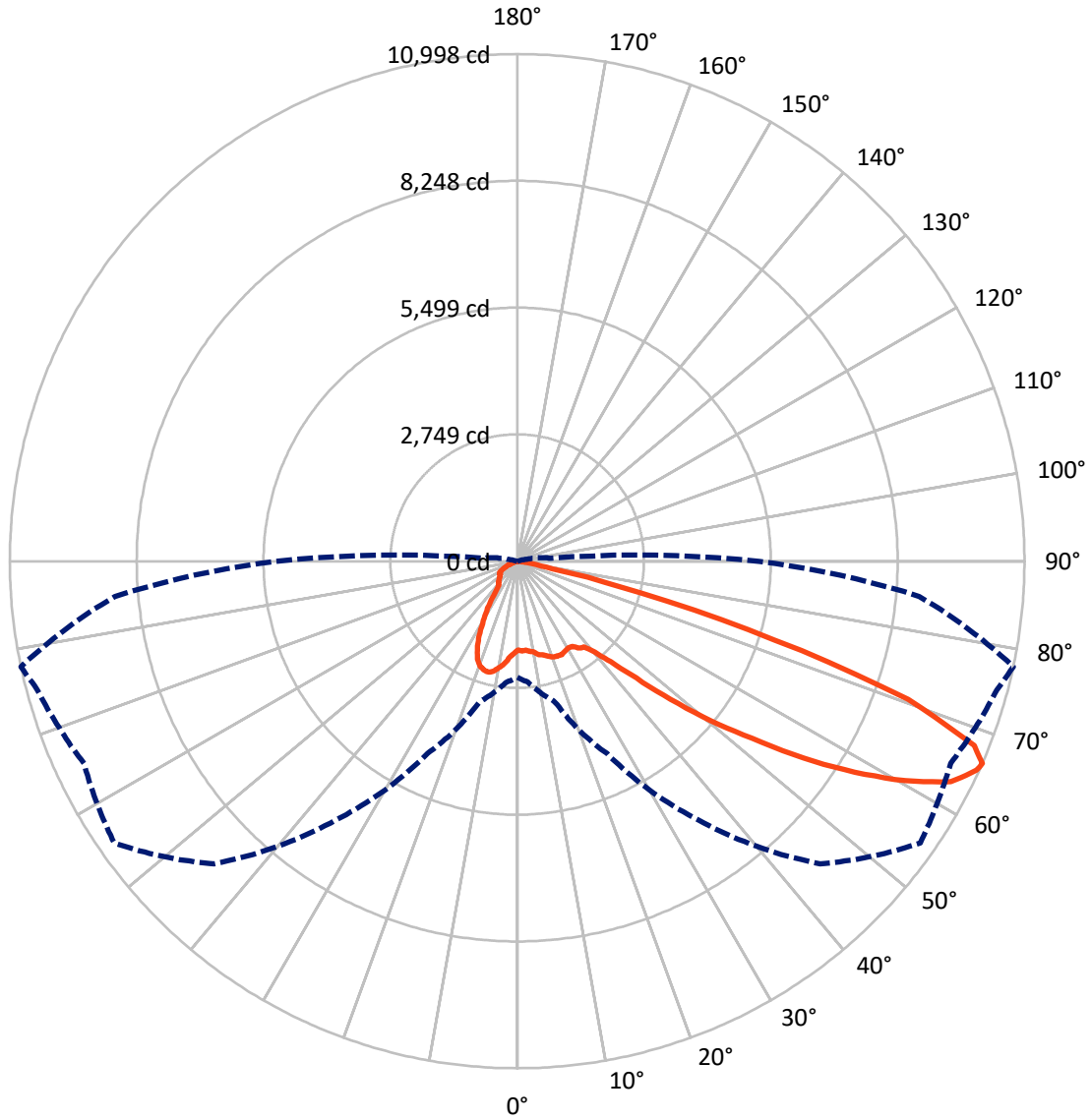
✕ Max cd
 - - - 1/2 Max cd



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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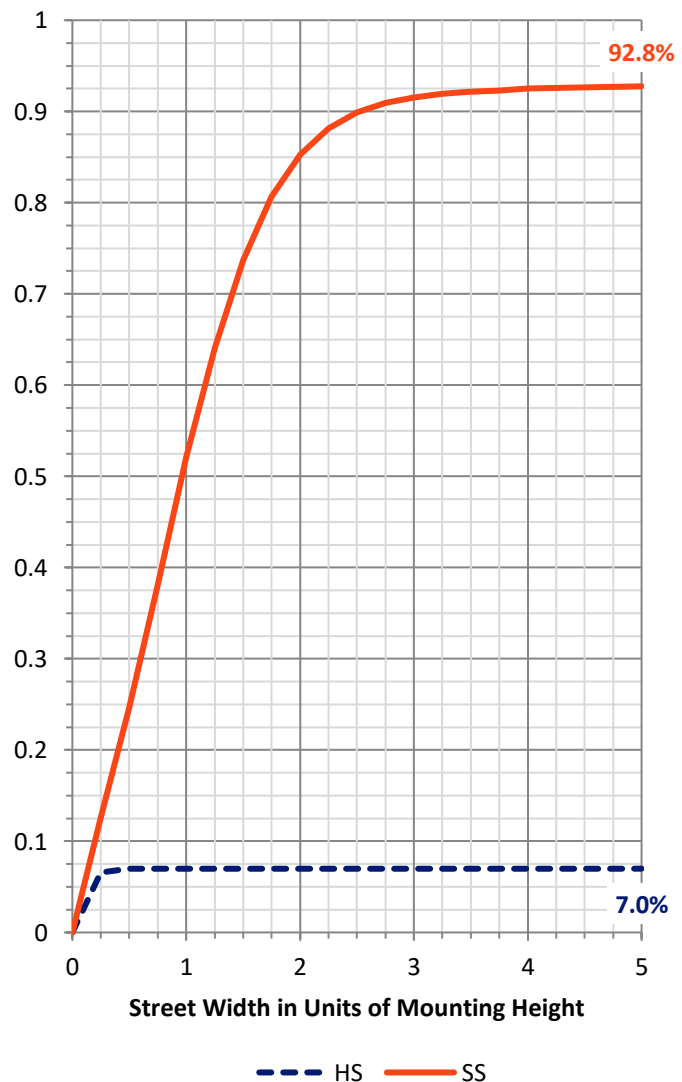
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	845.8	0.0	845.8
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	11184.4	0.0	11184.4
	% Fixture	93.0	0.0	93.0
Total	Lumens	12030.2	0.0	12030.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	1.5
10°-20°	397.9	3.3
20°-30°	568.8	4.7
30°-40°	973.6	8.1
40°-50°	1757.2	14.6
50°-60°	3005.0	25.0
60°-70°	3698.6	30.7
70°-80°	1398.3	11.6
80°-90°	54.6	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°	12030.2	100.0
0°-180°	12030.2	100.0

Coefficient of Utilization

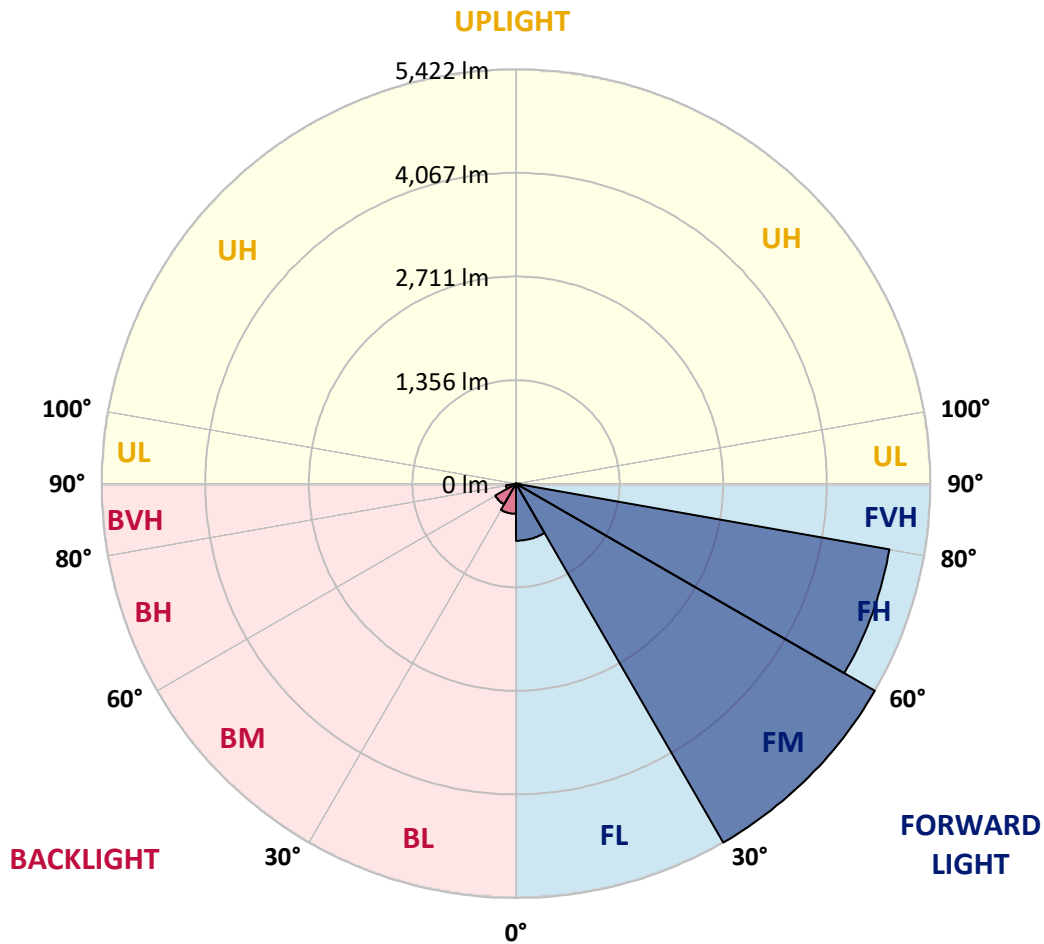


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	746.8	6.2			
FM (30°-60°)	5422.3	45.1			
FH (60°-80°)	4962.9	41.3			G2/5000
FVH (80°-90°)	52.4	0.4			G1/100
BL (0°-30°)	396.1	3.3	B1/500		
BM (30°-60°)	313.5	2.6	B1/1000		
BH (60°-80°)	134.0	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°	1926.8	1926.8	1926.8	1926.8	1926.8	1926.8	1926.8	1926.8	1926.8	1926.8	1926.8
2.5°	1772.3	1756.0	1772.3	1796.0	1808.7	1819.6	1857.8	1890.5	1925.0	1948.7	1941.4
5°	1643.3	1674.2	1677.8	1685.1	1705.1	1770.5	1792.3	1848.7	1934.1	1941.4	1974.1
7.5°	1541.5	1532.4	1556.0	1603.3	1654.2	1692.4	1756.0	1854.1	1943.2	1974.1	2037.7
10°	1394.2	1412.4	1437.9	1485.1	1546.9	1641.5	1754.2	1863.2	1990.5	2001.4	2119.5
12.5°	1314.3	1296.1	1336.1	1385.1	1490.6	1577.8	1716.0	1846.9	2019.6	2079.5	2215.9
15°	1248.8	1257.9	1296.1	1328.8	1416.1	1526.9	1688.7	1886.9	2068.6	2110.4	2317.7
17.5°	1221.5	1216.1	1245.2	1277.9	1385.1	1510.6	1677.8	1888.7	2112.3	2166.8	2386.7
20°	1234.3	1245.2	1236.1	1267.0	1334.3	1461.5	1694.2	1923.2	2145.0	2219.5	2461.3
22.5°	1434.2	1419.7	1347.0	1288.8	1292.4	1441.5	1681.4	1945.0	2174.1	2234.1	2512.2
25°	1955.9	1877.8	1697.8	1474.2	1327.0	1387.0	1666.9	1937.8	2168.6	2243.1	2543.1
27.5°	2481.3	2414.0	2237.7	1890.5	1466.9	1365.2	1616.0	1943.2	2141.3	2210.4	2492.2
30°	3035.7	3072.0	2810.3	2397.7	1834.1	1485.1	1583.3	1914.1	2123.2	2181.3	2503.1
32.5°	3604.7	3590.1	3432.0	2984.8	2359.5	1750.5	1636.0	1943.2	2146.8	2203.1	2566.7
35°	4050.0	3999.1	3839.2	3435.6	2793.9	2150.4	1817.8	2081.4	2250.4	2317.7	2657.6
37.5°	4270.0	4291.8	4199.1	3848.2	3270.2	2521.3	2045.0	2081.4	2283.1	2361.3	2804.8
40°	4440.8	4506.3	4471.7	4359.0	3742.8	2939.4	2295.9	2210.4	2448.5	2595.8	3081.1
42.5°	4646.2	4615.3	4818.9	4715.3	4360.9	3466.5	2735.8	2517.6	2839.4	2981.2	3495.6
45°	4755.3	4873.5	5028.0	5160.7	4933.5	4124.5	3310.2	3061.1	3437.4	3617.4	4111.8
47.5°	5035.3	5082.5	5333.4	5500.6	5398.8	4877.1	4182.7	3855.5	4190.0	4473.6	4817.1
50°	5198.9	5135.2	5486.1	5740.5	5798.7	5500.6	4964.4	4709.9	5084.3	5446.1	5477.0
52.5°	5055.2	5237.0	5587.9	6044.1	6205.9	6056.8	5882.3	5771.5	6035.0	6369.5	6220.4
55°	4551.7	4675.3	5529.7	6376.8	6898.5	6829.4	6991.2	6918.5	7183.9	7538.3	7089.3
57.5°	4146.4	4300.9	5051.6	6549.5	7543.8	7747.4	7951.0	7905.5	8225.5	8634.5	7825.5
60°	3893.7	3982.8	4706.2	6505.8	7925.5	8696.3	9156.2	8836.2	9357.9	9670.6	8401.8
62.5°	3455.6	3512.0	4202.7	5927.8	8040.0	9367.0	10146.8	9712.4	10165.0	10546.8	8816.2
65°	2770.3	2923.0	3493.8	5062.5	7283.8	9490.6	10764.9	10254.1	10692.2	10943.0	8941.7
66°	2521.3	2632.1	3155.7	4604.4	6853.0	9285.2	10661.3	10366.8	10768.5	10997.6	8749.0
67.5°	2092.3	2188.6	2604.9	3951.9	5971.4	8832.6	10734.0	10290.5	10826.7	10686.7	8490.9
70°	1385.1	1447.0	1781.4	2672.1	4159.1	7225.7	9956.0	9694.2	9517.9	8992.6	6638.5
72.5°	647.1	736.2	1112.5	1619.6	2439.5	5055.2	8118.2	7767.4	6674.9	5835.1	4188.2
75°	292.7	332.7	610.8	928.9	1094.3	2619.4	5237.0	4729.9	3322.9	2759.4	1834.1
77.5°	158.1	180.0	298.1	441.7	398.1	918.0	2592.2	2155.9	1047.0	767.1	532.6
80°	121.8	143.6	249.0	252.7	147.2	238.1	963.4	667.1	261.8	198.1	127.2
82.5°	63.6	90.9	196.3	163.6	74.5	96.3	298.1	185.4	81.8	65.4	54.5
85°	25.4	40.0	110.9	109.1	43.6	32.7	83.6	56.4	32.7	27.3	25.4
87.5°	1.8	1.8	60.0	41.8	27.3	9.1	12.7	12.7	16.4	14.5	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°	1926.8	1926.8	1926.8	1926.8	1926.8	1926.8	1926.8	1926.8	1926.8	1926.8	1926.8
2.5°	1974.1	1995.9	1999.6	2059.5	2072.3	2059.5	2092.3	2086.8	2101.4	2090.4	2070.5
5°	2019.6	2050.5	2110.4	2155.9	2155.9	2119.5	2090.4	2052.3	1995.9	1981.4	1970.5
7.5°	2097.7	2195.9	2250.4	2221.3	2163.2	2026.8	1837.8	1699.6	1583.3	1539.7	1519.7
10°	2235.9	2290.4	2354.0	2235.9	1994.1	1705.1	1387.0	1177.9	1014.3	978.0	950.7
12.5°	2324.9	2412.2	2448.5	2155.9	1681.4	1250.6	905.3	668.9	554.4	467.2	452.6
15°	2441.3	2541.3	2466.7	1939.6	1325.2	819.8	469.0	292.7	238.1	223.6	223.6
17.5°	2521.3	2630.3	2392.2	1670.5	939.8	436.3	232.7	201.8	198.1	200.0	196.3
20°	2661.2	2726.7	2279.5	1357.9	561.7	223.6	187.2	180.0	176.3	181.8	178.1
22.5°	2713.9	2773.9	2095.9	983.4	252.7	149.1	140.0	134.5	138.2	136.3	134.5
25°	2710.3	2741.2	1794.1	563.5	74.5	58.2	52.7	52.7	49.1	50.9	49.1
27.5°	2737.6	2661.2	1456.0	167.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2752.1	2532.2	1036.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2759.4	2464.9	667.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2815.7	2330.4	285.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2853.9	2157.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3012.1	2103.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3217.5	2001.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3502.9	1850.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3881.0	1761.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4162.7	1621.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4520.8	1537.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4946.2	1541.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5333.4	1516.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5531.5	1296.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5489.7	1048.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5344.3	823.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5244.3	728.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4940.7	583.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3931.9	399.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2501.3	245.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1152.5	112.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	361.7	69.1	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	94.5	43.6	14.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.1	30.9	12.7	5.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.9	12.7	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)