

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: P482720

Luminaire Tested: **IFLD-S-SA3B-727-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482720
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-727-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

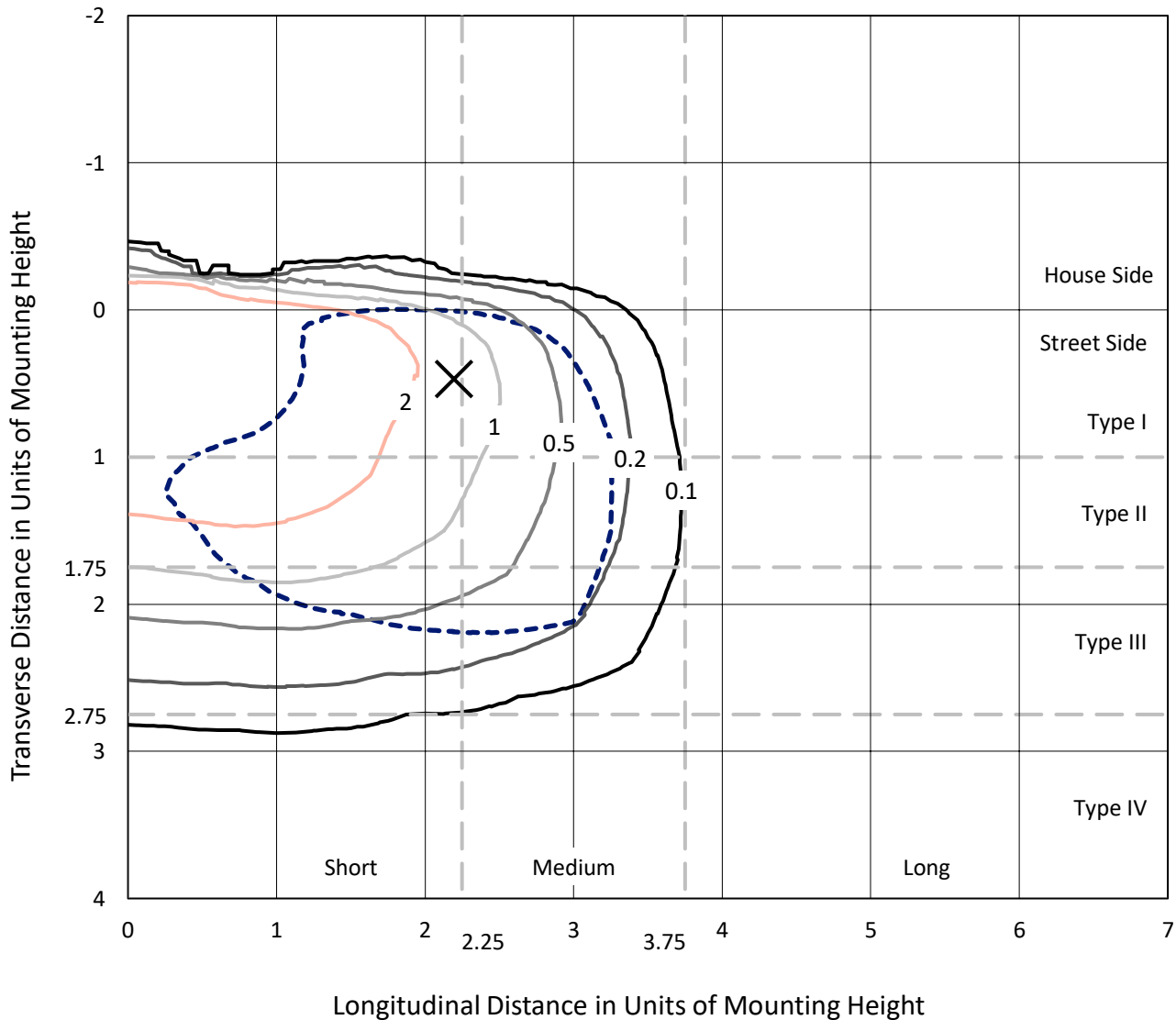
Lumens per Lamp: N/A
Luminaire Lumens: 10200.6 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

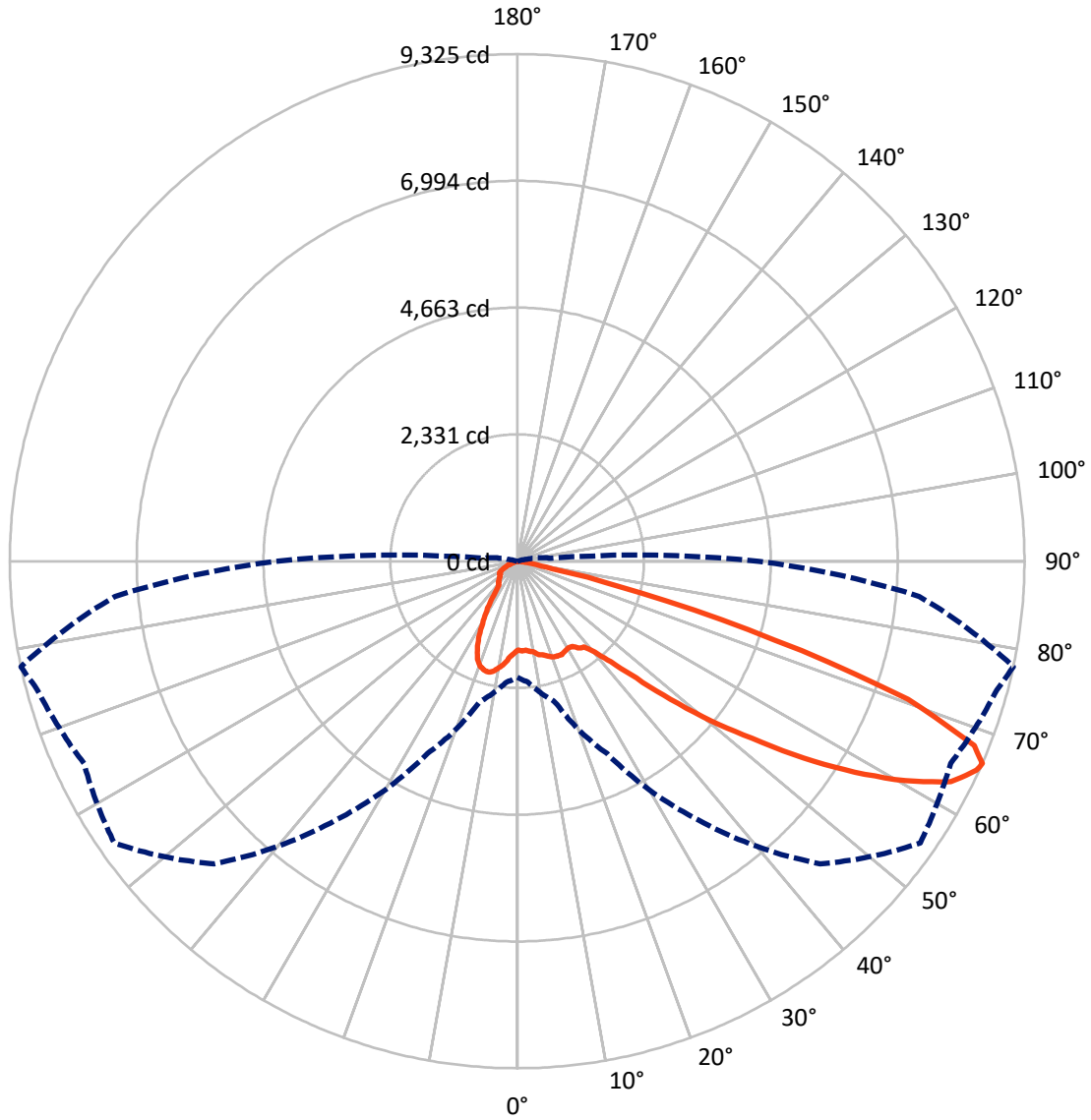
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 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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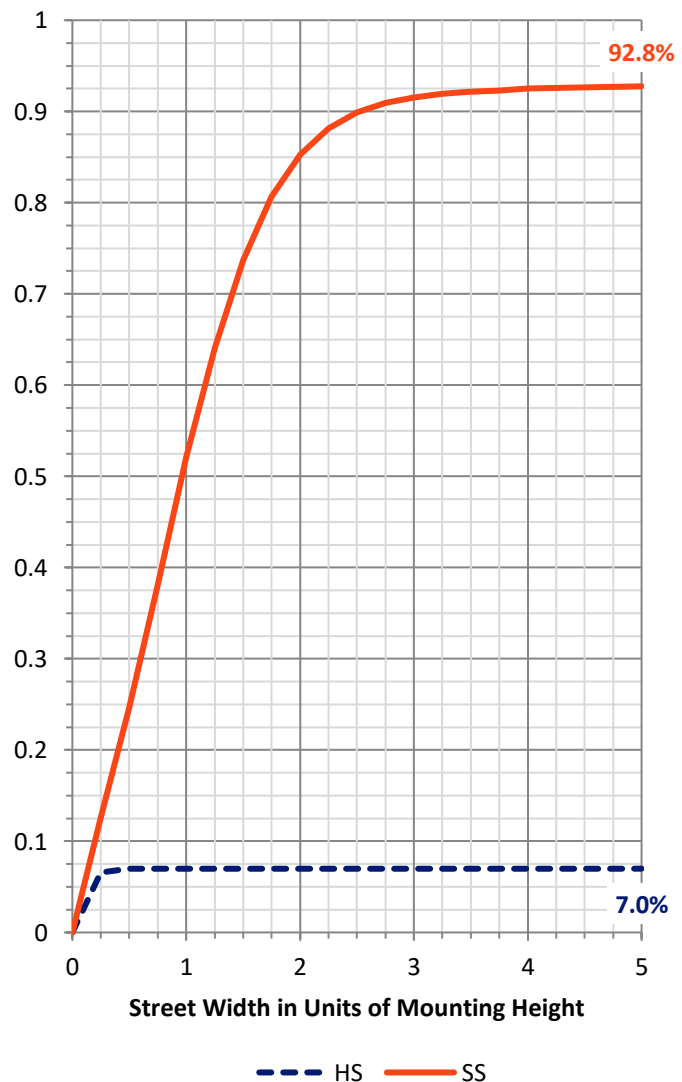
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	717.2	0.0	717.2
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	9483.5	0.0	9483.5
	% Fixture	93.0	0.0	93.0
Total	Lumens	10200.6	0.0	10200.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	1.5
10°-20°	337.4	3.3
20°-30°	482.3	4.7
30°-40°	825.5	8.1
40°-50°	1489.9	14.6
50°-60°	2548.0	25.0
60°-70°	3136.1	30.7
70°-80°	1185.6	11.6
80°-90°	46.3	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°	10200.6	100.0
0°-180°	10200.6	100.0

Coefficient of Utilization

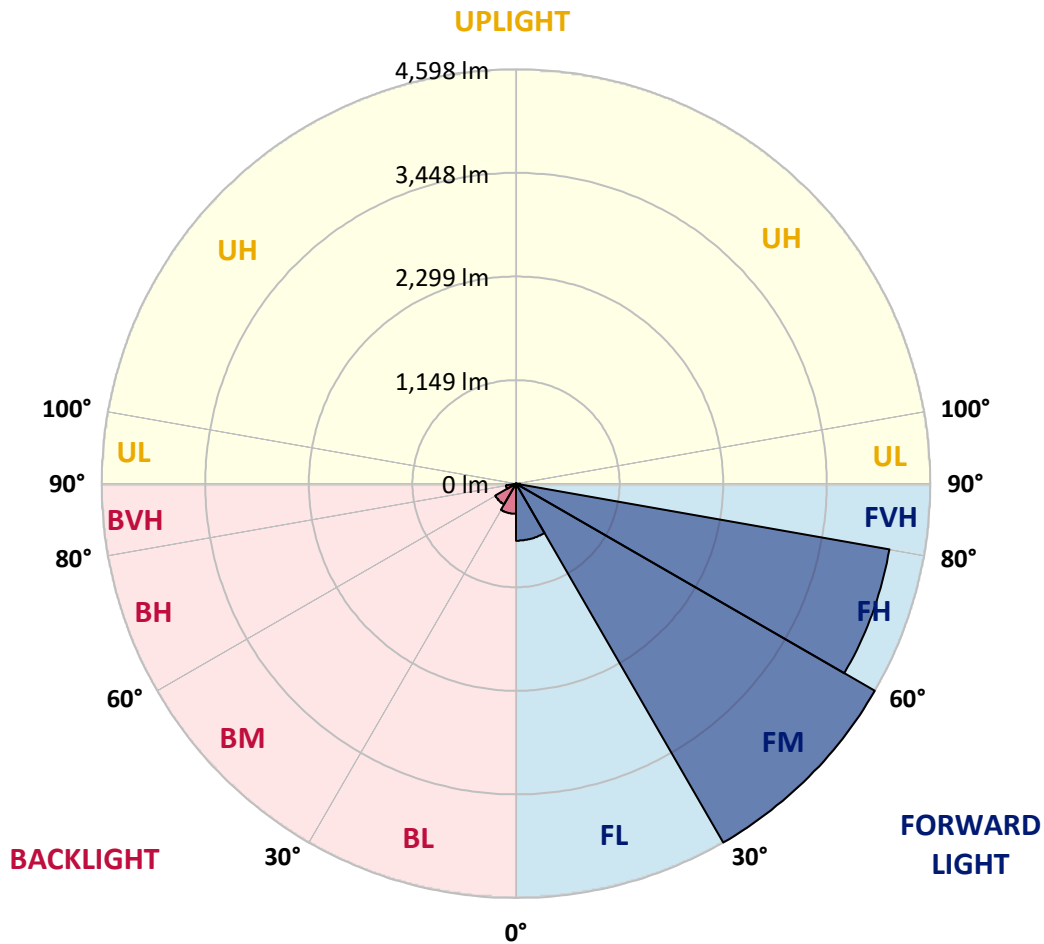


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	633.3	6.2			
FM (30°-60°)	4597.6	45.1			
FH (60°-80°)	4208.1	41.3			G2/5000
FVH (80°-90°)	44.5	0.4			G1/100
BL (0°-30°)	335.9	3.3	B1/500		
BM (30°-60°)	265.8	2.6	B1/1000		
BH (60°-80°)	113.6	1.1	B1/500		G1/500
BVH (80°-90°)	1.9	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°	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8
2.5°	1502.8	1488.9	1502.8	1522.8	1533.6	1542.9	1575.2	1603.0	1632.3	1652.3	1646.1
5°	1393.4	1419.6	1422.6	1428.8	1445.8	1501.3	1519.7	1567.5	1640.0	1646.1	1673.9
7.5°	1307.0	1299.3	1319.4	1359.4	1402.6	1435.0	1488.9	1572.2	1647.7	1673.9	1727.8
10°	1182.2	1197.6	1219.2	1259.3	1311.7	1391.8	1487.4	1579.9	1687.8	1697.0	1797.2
12.5°	1114.4	1099.0	1132.9	1174.5	1263.9	1337.9	1455.0	1566.0	1712.4	1763.3	1878.9
15°	1058.9	1066.6	1099.0	1126.7	1200.7	1294.7	1431.9	1599.9	1754.0	1789.5	1965.2
17.5°	1035.8	1031.1	1055.8	1083.6	1174.5	1280.8	1422.6	1601.4	1791.0	1837.3	2023.8
20°	1046.6	1055.8	1048.1	1074.3	1131.3	1239.2	1436.5	1630.7	1818.8	1882.0	2087.0
22.5°	1216.1	1203.8	1142.1	1092.8	1095.9	1222.3	1425.7	1649.2	1843.4	1894.3	2130.1
25°	1658.5	1592.2	1439.6	1250.0	1125.2	1176.0	1413.4	1643.1	1838.8	1902.0	2156.3
27.5°	2103.9	2046.9	1897.4	1603.0	1243.8	1157.5	1370.2	1647.7	1815.7	1874.3	2113.2
30°	2574.0	2604.8	2382.9	2033.0	1555.2	1259.3	1342.5	1623.0	1800.3	1849.6	2122.4
32.5°	3056.4	3044.1	2910.0	2530.9	2000.6	1484.3	1387.2	1647.7	1820.3	1868.1	2176.4
35°	3434.1	3390.9	3255.3	2913.1	2369.0	1823.4	1541.3	1764.8	1908.2	1965.2	2253.4
37.5°	3620.6	3639.1	3560.5	3263.0	2772.8	2137.8	1734.0	1764.8	1935.9	2002.2	2378.3
40°	3765.5	3820.9	3791.7	3696.1	3173.6	2492.3	1946.7	1874.3	2076.2	2201.0	2612.5
42.5°	3939.6	3913.4	4086.1	3998.2	3697.6	2939.3	2319.7	2134.7	2407.6	2527.8	2964.0
45°	4032.1	4132.3	4263.3	4375.8	4183.2	3497.3	2806.8	2595.6	2914.6	3067.2	3486.5
47.5°	4269.5	4309.5	4522.2	4664.1	4577.7	4135.4	3546.6	3269.2	3552.8	3793.2	4084.5
50°	4408.2	4354.2	4651.7	4867.5	4916.8	4664.1	4209.4	3993.6	4311.1	4617.8	4644.0
52.5°	4286.4	4440.6	4738.0	5124.9	5262.1	5135.7	4987.7	4893.7	5117.2	5400.8	5274.4
55°	3859.5	3964.3	4688.7	5407.0	5849.3	5790.8	5927.9	5866.3	6091.3	6391.9	6011.2
57.5°	3515.8	3646.8	4283.3	5553.4	6396.5	6569.1	6741.8	6703.2	6974.5	7321.3	6635.4
60°	3301.5	3377.0	3990.5	5516.4	6720.2	7373.7	7763.7	7492.4	7934.7	8199.9	7124.0
62.5°	2930.1	2977.8	3563.5	5026.3	6817.3	7942.5	8603.7	8235.3	8619.1	8942.8	7475.4
65°	2349.0	2478.5	2962.4	4292.6	6176.1	8047.3	9127.7	8694.6	9066.1	9278.8	7581.8
66°	2137.8	2231.8	2675.7	3904.2	5810.8	7873.1	9039.9	8790.2	9130.8	9325.0	7418.4
67.5°	1774.1	1855.8	2208.7	3350.8	5063.3	7489.3	9101.5	8725.4	9180.1	9061.5	7199.5
70°	1174.5	1226.9	1510.5	2265.7	3526.6	6126.8	8441.8	8219.9	8070.4	7624.9	5628.9
72.5°	548.7	624.2	943.3	1373.3	2068.5	4286.4	6883.6	6586.1	5659.7	4947.7	3551.2
75°	248.2	282.1	517.9	787.6	927.9	2221.1	4440.6	4010.5	2817.5	2339.7	1555.2
77.5°	134.1	152.6	252.8	374.5	337.6	778.4	2197.9	1828.0	887.8	650.4	451.6
80°	103.3	121.8	211.2	214.2	124.8	201.9	816.9	565.7	222.0	168.0	107.9
82.5°	53.9	77.1	166.5	138.7	63.2	81.7	252.8	157.2	69.4	55.5	46.2
85°	21.6	33.9	94.0	92.5	37.0	27.7	70.9	47.8	27.7	23.1	21.6
87.5°	1.5	1.5	50.9	35.5	23.1	7.7	10.8	10.8	13.9	12.3	15.4
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°	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8	1633.8
2.5°	1673.9	1692.4	1695.5	1746.3	1757.1	1746.3	1774.1	1769.4	1781.8	1772.5	1755.6
5°	1712.4	1738.6	1789.5	1828.0	1828.0	1797.2	1772.5	1740.2	1692.4	1680.0	1670.8
7.5°	1778.7	1861.9	1908.2	1883.5	1834.2	1718.6	1558.3	1441.1	1342.5	1305.5	1288.5
10°	1895.8	1942.1	1996.0	1895.8	1690.8	1445.8	1176.0	998.8	860.1	829.2	806.1
12.5°	1971.4	2045.3	2076.2	1828.0	1425.7	1060.4	767.6	567.2	470.1	396.1	383.8
15°	2070.0	2154.8	2091.6	1644.6	1123.6	695.1	397.7	248.2	201.9	189.6	189.6
17.5°	2137.8	2230.3	2028.4	1416.5	796.9	369.9	197.3	171.1	168.0	169.5	166.5
20°	2256.5	2312.0	1932.8	1151.4	476.3	189.6	158.8	152.6	149.5	154.1	151.0
22.5°	2301.2	2352.1	1777.1	833.9	214.2	126.4	118.7	114.1	117.1	115.6	114.1
25°	2298.1	2324.3	1521.3	477.8	63.2	49.3	44.7	44.7	41.6	43.2	41.6
27.5°	2321.2	2256.5	1234.6	141.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2333.6	2147.1	878.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2339.7	2090.0	565.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2387.5	1976.0	242.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2419.9	1829.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2554.0	1783.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2728.1	1697.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2970.1	1569.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3290.7	1493.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3529.6	1374.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3833.3	1304.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4193.9	1307.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4522.2	1285.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4690.3	1099.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4654.8	889.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4531.5	698.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4446.7	618.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4189.3	494.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3333.9	339.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2120.9	208.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	977.2	95.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	306.7	58.6	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	80.1	37.0	12.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.6	26.2	10.8	4.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.2	10.8	4.6	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.1	6.2	3.1	3.1	1.5	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)