

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: P483614

Luminaire Tested: **IFLD-S-SA2D-740-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483614
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

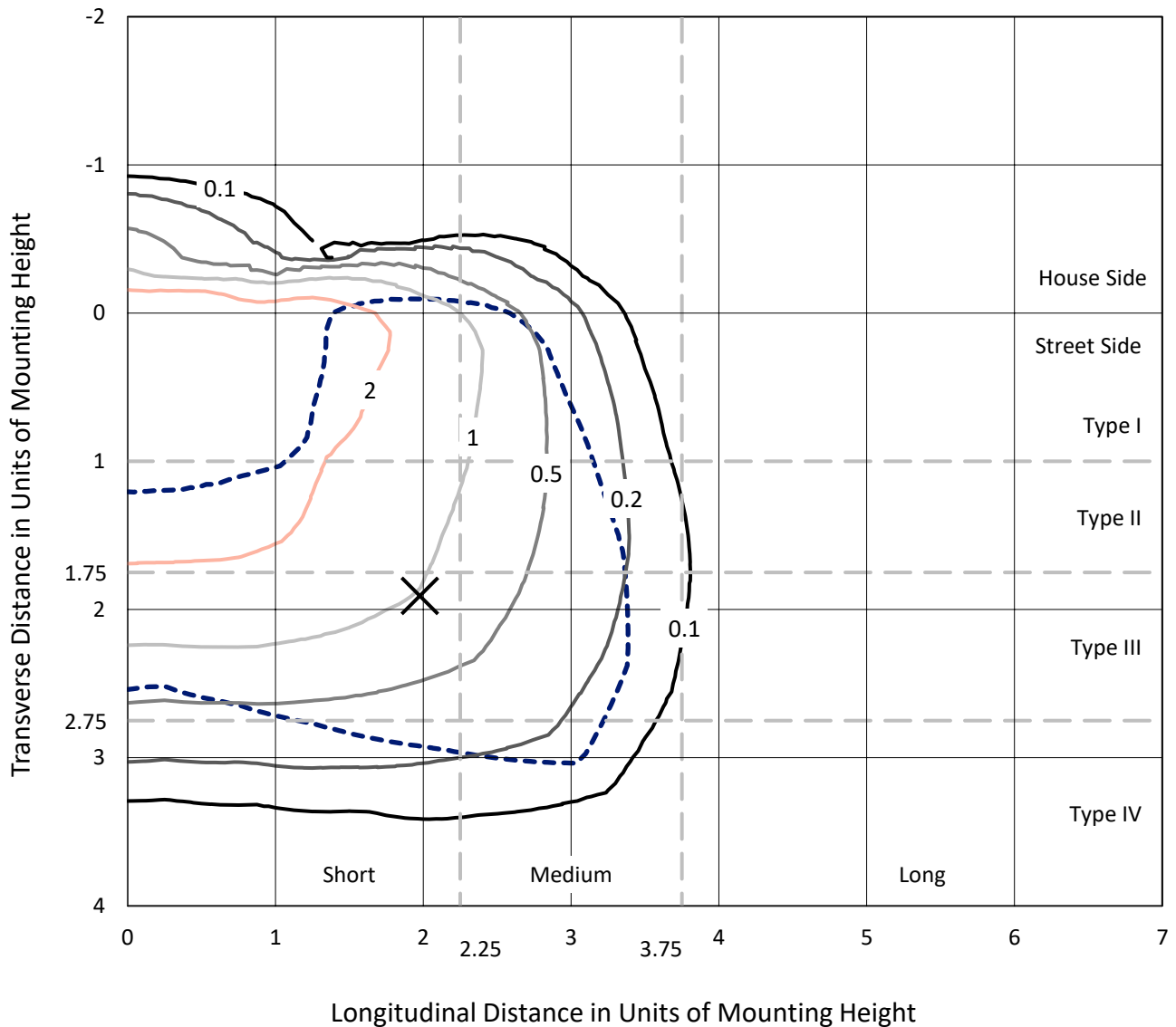
Lumens per Lamp: N/A
Luminaire Lumens: 11539.4 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): 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

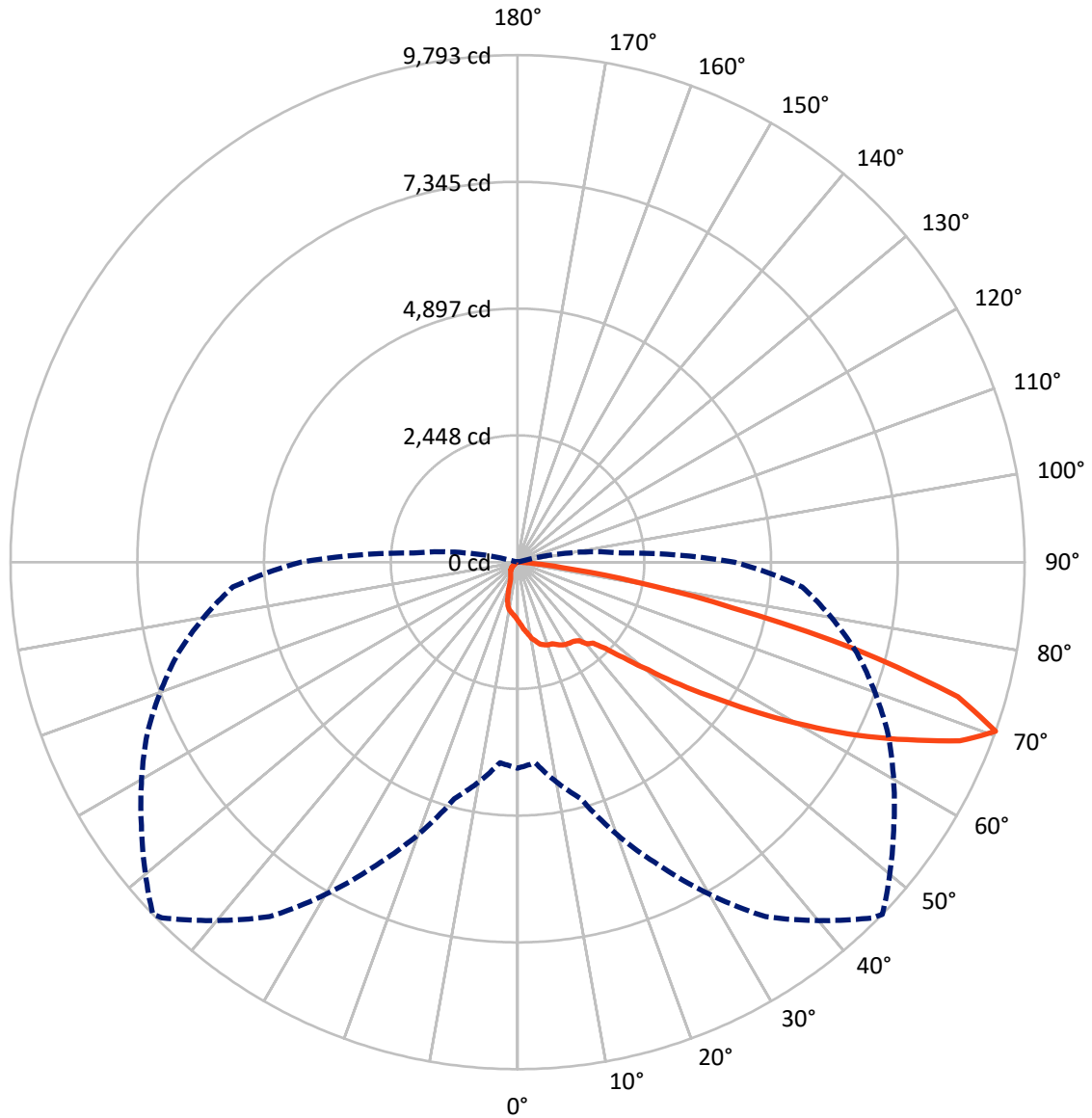
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1148.2	0.0	1148.2
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	10391.2	0.0	10391.2
	% Fixture	90.0	0.0	90.0
Total	Lumens	11539.4	0.0	11539.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	1.0
10°-20°	341.1	3.0
20°-30°	546.4	4.7
30°-40°	779.9	6.8
40°-50°	1346.7	11.7
50°-60°	2578.3	22.3
60°-70°	3818.1	33.1
70°-80°	1891.1	16.4
80°-90°	125.0	1.1
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°	11539.4	100.0
0°-180°	11539.4	100.0

Coefficient of Utilization



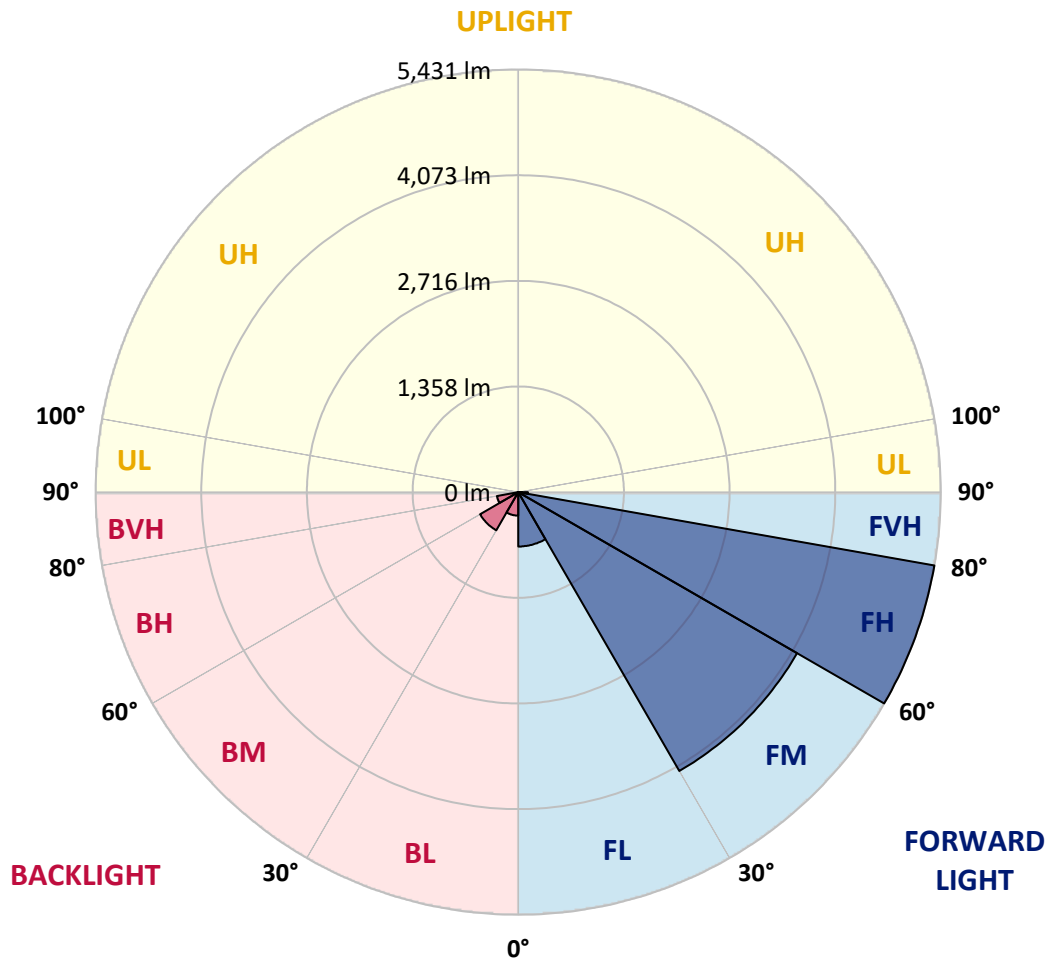
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	698.8	6.1			
FM (30°-60°)	4138.0	35.9			
FH (60°-80°)	5431.0	47.1			G3/7500
FVH (80°-90°)	123.4	1.1			G2/225
BL (0°-30°)	301.7	2.6	B1/500		
BM (30°-60°)	566.9	4.9	B1/1000		
BH (60°-80°)	278.1	2.4	B1/500		G1/500
BVH (80°-90°)	1.6	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8
2.5°	1264.0	1255.7	1242.4	1237.5	1224.2	1217.5	1207.6	1202.6	1184.3	1166.0	1154.4
5°	1418.5	1398.6	1405.2	1385.3	1342.1	1307.2	1305.6	1267.4	1225.8	1192.6	1147.8
7.5°	1574.6	1558.0	1533.1	1504.9	1456.7	1405.2	1390.3	1353.7	1295.6	1237.5	1177.7
10°	1692.6	1680.9	1659.4	1619.5	1553.0	1494.9	1496.6	1435.1	1373.7	1307.2	1225.8
12.5°	1765.7	1770.6	1739.1	1699.2	1641.1	1568.0	1566.3	1524.8	1455.0	1385.3	1288.9
15°	1838.7	1857.0	1808.8	1762.3	1687.6	1634.4	1644.4	1594.6	1526.5	1446.7	1340.4
17.5°	1850.4	1855.3	1845.4	1777.3	1722.5	1677.6	1679.3	1646.1	1594.6	1508.2	1416.8
20°	1830.4	1827.1	1815.5	1765.7	1729.1	1702.5	1704.2	1695.9	1667.7	1597.9	1473.3
22.5°	1772.3	1772.3	1757.3	1724.1	1707.5	1732.4	1712.5	1744.1	1714.2	1672.6	1569.7
25°	1725.8	1744.1	1735.8	1714.2	1720.8	1754.0	1764.0	1793.9	1788.9	1737.4	1636.1
27.5°	1775.6	1754.0	1759.0	1734.1	1759.0	1808.8	1813.8	1835.4	1833.8	1792.2	1695.9
30°	1808.8	1828.8	1790.6	1735.8	1762.3	1847.0	1843.7	1872.0	1885.2	1835.4	1752.4
32.5°	1915.1	1898.5	1867.0	1793.9	1797.2	1845.4	1860.3	1896.9	1905.2	1875.3	1807.2
35°	2132.7	2107.8	1970.0	1860.3	1843.7	1867.0	1876.9	1948.4	1963.3	1930.1	1865.3
37.5°	2468.3	2411.8	2245.7	2003.2	1928.4	1923.5	1923.5	2018.1	2074.6	1998.2	1951.7
40°	2948.3	2868.6	2689.2	2267.3	2039.7	2059.7	2079.6	2131.1	2124.4	2074.6	2064.6
42.5°	3559.5	3498.1	3303.8	2710.8	2252.3	2152.7	2136.1	2205.8	2310.5	2290.5	2283.9
45°	4069.5	4072.8	3948.2	3318.7	2619.4	2366.9	2378.6	2431.7	2607.8	2592.8	2591.2
47.5°	4441.5	4395.0	4376.8	3905.0	3154.3	2773.9	2757.3	2793.8	3023.0	3117.7	3160.9
50°	4780.4	4748.8	4705.6	4474.8	3797.1	3283.8	3267.2	3270.5	3621.0	3753.9	3860.2
52.5°	5200.6	5240.5	5097.6	4956.5	4629.2	3946.6	3928.3	3863.5	4298.7	4481.4	4607.6
55°	5718.9	5644.1	5483.0	5556.1	5424.9	4662.5	4629.2	4552.8	5071.1	5147.5	5280.4
57.5°	5833.5	5777.0	5943.1	6202.2	6328.5	5502.9	5489.6	5351.8	5720.5	5650.8	6026.1
60°	6119.2	6134.1	6365.0	6879.9	7099.2	6473.0	6408.2	6165.7	6350.0	6363.3	6763.6
62.5°	6413.2	6378.3	6894.9	7389.8	7727.0	7391.5	7369.9	6888.2	7097.5	6928.1	7457.9
65°	6197.2	6250.4	6989.5	7818.4	8540.9	8290.1	8271.8	7584.2	7698.8	7487.8	7740.3
67.5°	5429.8	5321.9	6356.7	7622.4	8959.5	9231.9	9212.0	8343.3	8037.6	7484.5	7154.0
70°	3979.8	3886.8	4730.6	6454.7	8359.9	9713.6	9793.3	8871.5	7899.8	6786.9	5519.5
72.5°	1950.0	1951.7	2651.0	4376.8	6614.1	8853.2	8893.1	8134.0	6786.9	5003.0	3126.0
75°	576.4	583.0	981.7	2146.0	4275.4	6723.8	6768.6	6174.0	4704.0	2584.5	1066.4
77.5°	210.9	210.9	325.6	805.6	2132.7	4243.9	4240.6	3790.4	2381.9	875.4	249.2
80°	109.6	114.6	169.4	328.9	923.5	2210.8	2293.9	1855.3	905.3	368.7	73.1
82.5°	44.8	49.8	93.0	169.4	443.5	775.7	848.8	727.5	393.7	257.5	33.2
85°	13.3	14.9	44.8	94.7	174.4	194.3	215.9	244.2	247.5	199.3	14.9
87.5°	1.7	1.7	18.3	31.6	38.2	41.5	48.2	48.2	126.2	139.5	8.3
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°	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8
2.5°	1141.1	1132.8	1119.5	1089.6	1083.0	1061.4	1059.7	1039.8	1046.4	1033.1	1028.2
5°	1132.8	1114.5	1078.0	1054.7	1031.5	1016.5	1006.6	998.3	996.6	990.0	986.6
7.5°	1147.8	1122.8	1066.4	1029.8	990.0	976.7	955.1	953.4	941.8	930.2	930.2
10°	1197.6	1152.7	1091.3	1029.8	978.3	935.1	885.3	848.8	835.5	805.6	808.9
12.5°	1237.5	1197.6	1107.9	1044.8	966.7	868.7	759.1	674.4	634.5	596.3	611.3
15°	1293.9	1235.8	1139.5	1048.1	921.9	752.4	573.0	478.4	441.8	433.5	431.9
17.5°	1355.4	1293.9	1179.3	1039.8	830.5	581.4	421.9	367.1	373.7	383.7	382.0
20°	1423.5	1348.7	1209.2	1011.6	686.0	421.9	345.5	343.8	353.8	368.7	372.1
22.5°	1494.9	1430.1	1245.8	926.8	511.6	338.8	332.2	332.2	338.8	357.1	353.8
25°	1574.6	1488.3	1264.0	795.6	367.1	312.3	315.6	322.2	325.6	340.5	342.2
27.5°	1636.1	1553.0	1269.0	637.8	299.0	289.0	297.3	305.6	310.6	322.2	327.2
30°	1692.6	1634.4	1242.4	475.0	274.1	269.1	272.4	284.0	294.0	304.0	304.0
32.5°	1764.0	1680.9	1181.0	337.2	259.1	250.8	249.2	254.1	265.8	277.4	277.4
35°	1837.1	1759.0	1083.0	270.7	245.8	234.2	227.6	222.6	227.6	235.9	242.5
37.5°	1943.4	1876.9	960.1	249.2	235.9	219.3	206.0	194.3	186.0	184.4	189.4
40°	2094.5	2009.8	802.3	234.2	224.2	204.3	184.4	164.4	146.2	134.5	136.2
42.5°	2323.8	2205.8	631.2	225.9	215.9	187.7	159.5	131.2	108.0	96.3	96.3
45°	2651.0	2464.9	463.4	217.6	206.0	167.8	131.2	98.0	74.7	68.1	69.8
47.5°	3144.3	2777.2	332.2	204.3	192.7	146.2	103.0	69.8	54.8	51.5	53.2
50°	3788.8	3147.6	259.1	189.4	176.1	122.9	76.4	51.5	43.2	41.5	43.2
52.5°	4464.8	3521.3	227.6	176.1	151.2	98.0	56.5	41.5	36.5	34.9	36.5
55°	5042.8	3762.2	197.7	156.1	121.3	73.1	44.8	36.5	31.6	26.6	26.6
57.5°	5627.5	3883.4	156.1	129.6	89.7	54.8	38.2	31.6	26.6	21.6	19.9
60°	6102.6	3969.8	111.3	96.3	63.1	43.2	33.2	28.2	21.6	16.6	14.9
62.5°	6414.8	3722.3	81.4	73.1	46.5	36.5	28.2	23.3	16.6	11.6	11.6
65°	6260.4	3380.2	63.1	51.5	34.9	28.2	23.3	16.6	11.6	6.6	5.0
67.5°	5617.5	2754.0	51.5	38.2	26.6	21.6	18.3	13.3	6.6	1.7	1.7
70°	4190.7	2018.1	41.5	28.2	21.6	16.6	13.3	8.3	3.3	1.7	0.0
72.5°	2292.2	1104.6	33.2	23.3	16.6	13.3	10.0	6.6	3.3	0.0	0.0
75°	757.4	294.0	24.9	16.6	10.0	8.3	6.6	5.0	1.7	0.0	0.0
77.5°	182.7	76.4	19.9	14.9	8.3	5.0	3.3	1.7	1.7	0.0	0.0
80°	56.5	31.6	14.9	10.0	6.6	5.0	1.7	0.0	0.0	0.0	0.0
82.5°	23.3	14.9	6.6	6.6	5.0	1.7	0.0	0.0	0.0	0.0	0.0
85°	11.6	8.3	5.0	3.3	3.3	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	3.3	1.7	1.7	0.0	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)