

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: P483653

Luminaire Tested: **IFLD-S-SA2D-750-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483653
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-750-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

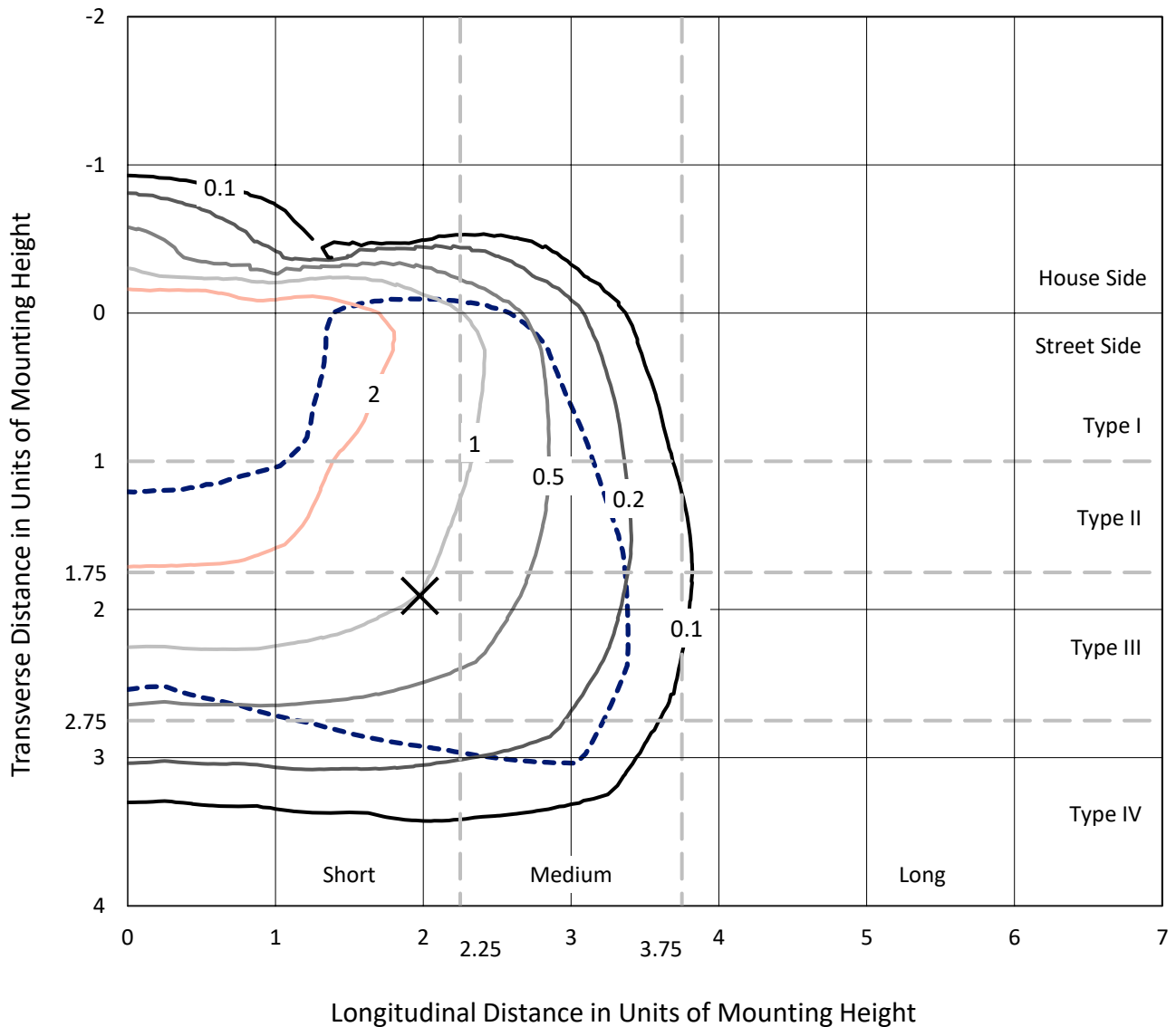
Lumens per Lamp: N/A
Luminaire Lumens: 11803.7 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

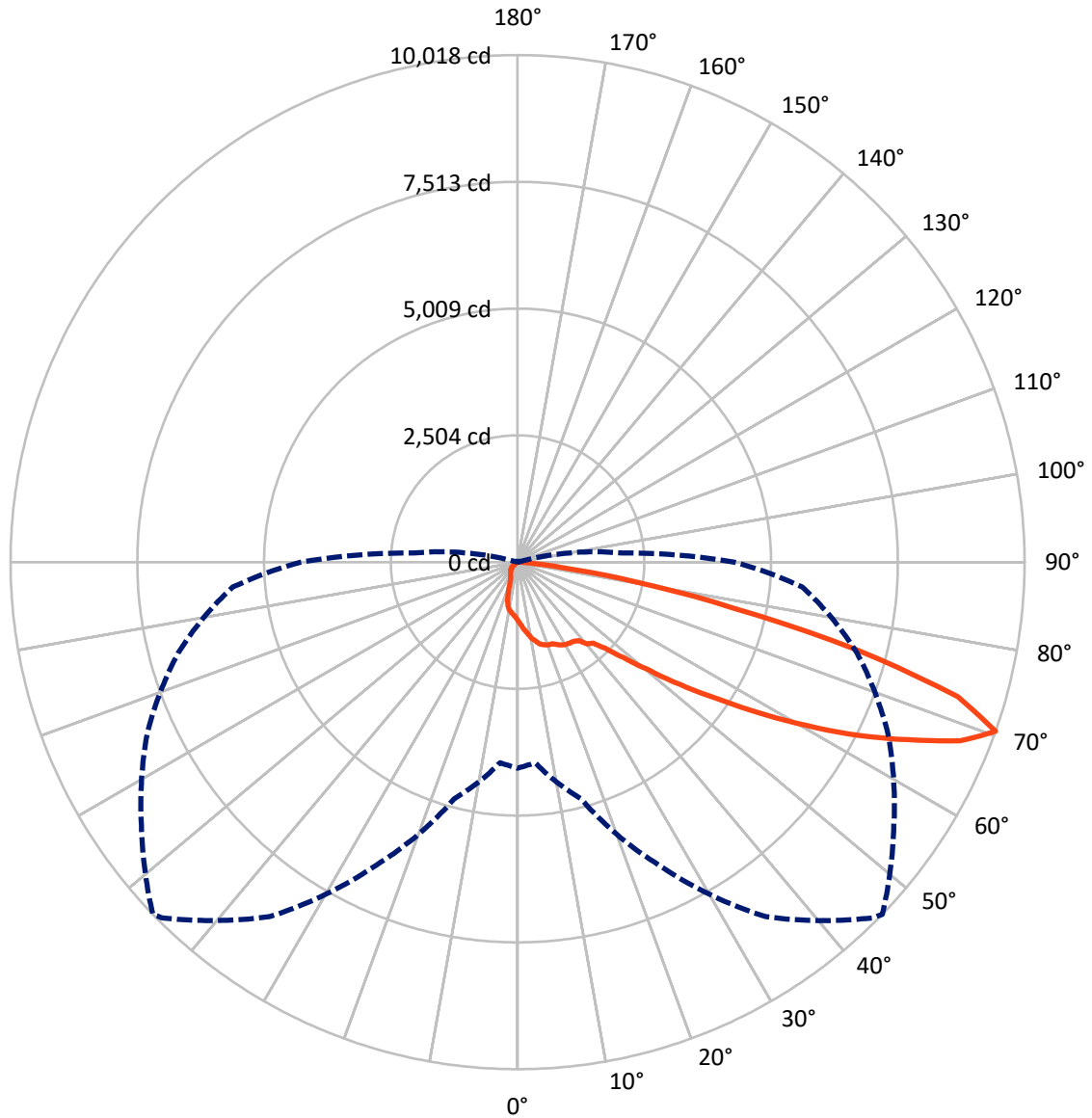
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 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	1174.5	0.0	1174.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	10629.2	0.0	10629.2
	% Fixture	90.0	0.0	90.0
Total	Lumens	11803.7	0.0	11803.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	1.0
10°-20°	348.9	3.0
20°-30°	558.9	4.7
30°-40°	797.8	6.8
40°-50°	1377.5	11.7
50°-60°	2637.4	22.3
60°-70°	3905.5	33.1
70°-80°	1934.4	16.4
80°-90°	127.8	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°	11803.7	100.0
0°-180°	11803.7	100.0

Coefficient of Utilization



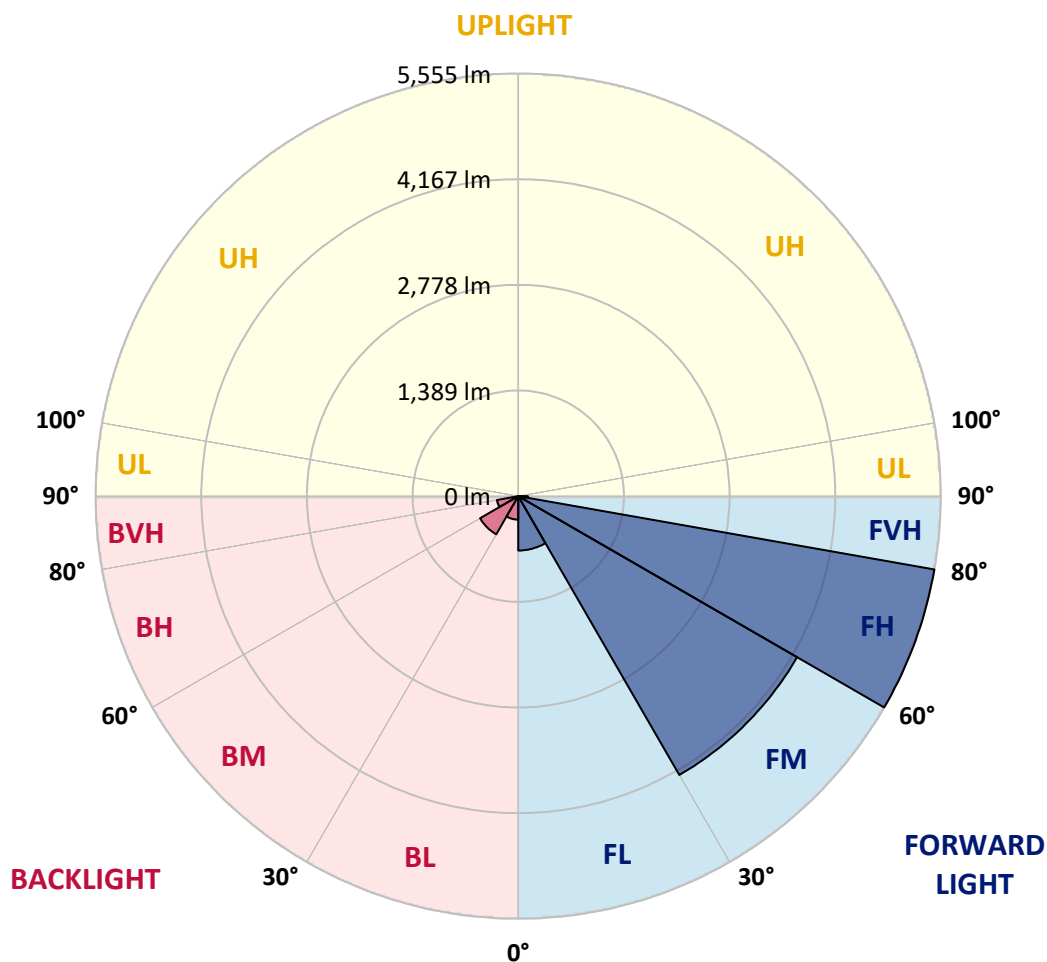
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	714.8	6.1			
FM (30°-60°)	4232.8	35.9			
FH (60°-80°)	5555.4	47.1			G3/7500
FVH (80°-90°)	126.2	1.1			G2/225
BL (0°-30°)	308.6	2.6	B1/500		
BM (30°-60°)	579.9	4.9	B1/1000		
BH (60°-80°)	284.5	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°	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8
2.5°	1293.0	1284.5	1270.9	1265.8	1252.2	1245.4	1235.2	1230.1	1211.4	1192.7	1180.8
5°	1451.0	1430.6	1437.4	1417.0	1372.8	1337.2	1335.5	1296.4	1253.9	1219.9	1174.0
7.5°	1610.7	1593.7	1568.2	1539.3	1490.1	1437.4	1422.1	1384.7	1325.3	1265.8	1204.6
10°	1731.3	1719.4	1697.3	1656.6	1588.6	1529.1	1530.8	1468.0	1405.1	1337.2	1253.9
12.5°	1806.1	1811.2	1778.9	1738.1	1678.7	1603.9	1602.2	1559.7	1488.4	1417.0	1318.5
15°	1880.8	1899.5	1850.3	1802.7	1726.2	1671.9	1682.1	1631.1	1561.4	1479.9	1371.1
17.5°	1892.7	1897.8	1887.6	1818.0	1761.9	1716.0	1717.7	1683.8	1631.1	1542.7	1449.3
20°	1872.4	1869.0	1857.1	1806.1	1768.7	1741.5	1743.2	1734.7	1705.8	1634.5	1507.1
22.5°	1812.9	1812.9	1797.6	1763.6	1746.6	1772.1	1751.7	1784.0	1753.4	1710.9	1605.6
25°	1765.3	1784.0	1775.5	1753.4	1760.2	1794.2	1804.4	1835.0	1829.9	1777.2	1673.6
27.5°	1816.3	1794.2	1799.3	1773.8	1799.3	1850.3	1855.4	1877.4	1875.7	1833.3	1734.7
30°	1850.3	1870.7	1831.6	1775.5	1802.7	1889.3	1885.9	1914.8	1928.4	1877.4	1792.5
32.5°	1959.0	1942.0	1909.7	1835.0	1838.4	1887.6	1902.9	1940.3	1948.8	1918.2	1848.6
35°	2181.6	2156.1	2015.1	1902.9	1885.9	1909.7	1919.9	1993.0	2008.3	1974.3	1908.0
37.5°	2524.8	2467.0	2297.1	2049.1	1972.6	1967.5	1967.5	2064.3	2122.1	2044.0	1996.4
40°	3015.8	2934.3	2750.8	2319.2	2086.4	2106.8	2127.2	2179.9	2173.1	2122.1	2111.9
42.5°	3641.1	3578.2	3379.4	2772.8	2303.9	2202.0	2185.0	2256.3	2363.4	2343.0	2336.2
45°	4162.7	4166.1	4038.6	3394.7	2679.4	2421.1	2433.0	2487.4	2667.5	2652.2	2650.5
47.5°	4543.3	4495.7	4477.0	3994.5	3226.5	2837.4	2820.4	2857.8	3092.3	3189.1	3233.3
50°	4889.9	4857.6	4813.4	4577.2	3884.0	3359.0	3342.0	3345.4	3703.9	3839.8	3948.6
52.5°	5319.7	5360.5	5214.4	5070.0	4735.2	4036.9	4018.2	3952.0	4397.1	4584.0	4713.2
55°	5849.8	5773.4	5608.6	5683.3	5549.1	4769.2	4735.2	4657.1	5187.2	5265.4	5401.3
57.5°	5967.1	5909.3	6079.2	6344.2	6473.4	5628.9	5615.4	5474.3	5851.5	5780.2	6164.1
60°	6259.3	6274.6	6510.8	7037.5	7261.7	6621.2	6554.9	6306.9	6495.5	6509.1	6918.5
62.5°	6560.0	6524.3	7052.7	7559.1	7904.0	7560.8	7538.7	7046.0	7260.0	7086.7	7628.7
65°	6339.1	6393.5	7149.6	7997.4	8736.5	8480.0	8461.3	7757.9	7875.1	7659.3	7917.6
67.5°	5554.2	5443.8	6502.3	7796.9	9164.7	9443.3	9422.9	8534.3	8221.7	7655.9	7317.8
70°	4070.9	3975.8	4838.9	6602.5	8551.3	9936.0	10017.6	9074.6	8080.7	6942.3	5645.9
72.5°	1994.7	1996.4	2711.7	4477.0	6765.6	9055.9	9096.7	8320.2	6942.3	5117.5	3197.6
75°	589.6	596.4	1004.1	2195.2	4373.4	6877.7	6923.6	6315.4	4811.7	2643.7	1090.8
77.5°	215.8	215.8	333.0	824.0	2181.6	4341.1	4337.7	3877.2	2436.4	895.4	254.9
80°	112.1	117.2	173.3	336.4	944.7	2261.4	2346.4	1897.8	926.0	377.2	74.8
82.5°	45.9	51.0	95.1	173.3	453.6	793.5	868.2	744.2	402.7	263.4	34.0
85°	13.6	15.3	45.9	96.8	178.4	198.8	220.9	249.8	253.2	203.9	15.3
87.5°	1.7	1.7	18.7	32.3	39.1	42.5	49.3	49.3	129.1	142.7	8.5
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°	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8	1158.8
2.5°	1167.2	1158.8	1145.2	1114.6	1107.8	1085.7	1084.0	1063.6	1070.4	1056.8	1051.7
5°	1158.8	1140.1	1102.7	1078.9	1055.1	1039.8	1029.6	1021.1	1019.4	1012.6	1009.2
7.5°	1174.0	1148.6	1090.8	1053.4	1012.6	999.0	977.0	975.3	963.4	951.5	951.5
10°	1225.0	1179.1	1116.3	1053.4	1000.7	956.6	905.6	868.2	854.6	824.0	827.4
12.5°	1265.8	1225.0	1133.3	1068.7	988.8	888.6	776.5	689.8	649.0	610.0	625.2
15°	1323.6	1264.1	1165.5	1072.1	943.0	769.7	586.2	489.3	451.9	443.5	441.8
17.5°	1386.4	1323.6	1206.3	1063.6	849.5	594.7	431.6	375.5	382.3	392.5	390.8
20°	1456.1	1379.6	1236.9	1034.7	701.7	431.6	353.4	351.7	361.9	377.2	380.6
22.5°	1529.1	1462.9	1274.3	948.1	523.3	346.6	339.8	339.8	346.6	365.3	361.9
25°	1610.7	1522.3	1293.0	813.8	375.5	319.4	322.8	329.6	333.0	348.3	350.0
27.5°	1673.6	1588.6	1298.1	652.4	305.8	295.6	304.1	312.6	317.7	329.6	334.7
30°	1731.3	1671.9	1270.9	485.9	280.3	275.2	278.6	290.5	300.7	310.9	310.9
32.5°	1804.4	1719.4	1208.0	344.9	265.1	256.6	254.9	260.0	271.8	283.7	283.7
35°	1879.1	1799.3	1107.8	276.9	251.5	239.6	232.8	227.7	232.8	241.3	248.1
37.5°	1987.9	1919.9	982.0	254.9	241.3	224.3	210.7	198.8	190.3	188.6	193.7
40°	2142.5	2055.8	820.6	239.6	229.4	209.0	188.6	168.2	149.5	137.6	139.3
42.5°	2377.0	2256.3	645.6	231.1	220.9	192.0	163.1	134.2	110.4	98.5	98.5
45°	2711.7	2521.4	474.0	222.6	210.7	171.6	134.2	100.2	76.5	69.7	71.4
47.5°	3216.3	2840.8	339.8	209.0	197.1	149.5	105.3	71.4	56.1	52.7	54.4
50°	3875.5	3219.7	265.1	193.7	180.1	125.7	78.2	52.7	44.2	42.5	44.2
52.5°	4567.0	3602.0	232.8	180.1	154.6	100.2	57.8	42.5	37.4	35.7	37.4
55°	5158.3	3848.3	202.2	159.7	124.0	74.8	45.9	37.4	32.3	27.2	27.2
57.5°	5756.4	3972.4	159.7	132.5	91.7	56.1	39.1	32.3	27.2	22.1	20.4
60°	6242.3	4060.7	113.8	98.5	64.6	44.2	34.0	28.9	22.1	17.0	15.3
62.5°	6561.7	3807.6	83.3	74.8	47.6	37.4	28.9	23.8	17.0	11.9	11.9
65°	6403.7	3457.6	64.6	52.7	35.7	28.9	23.8	17.0	11.9	6.8	5.1
67.5°	5746.2	2817.0	52.7	39.1	27.2	22.1	18.7	13.6	6.8	1.7	1.7
70°	4286.7	2064.3	42.5	28.9	22.1	17.0	13.6	8.5	3.4	1.7	0.0
72.5°	2344.7	1129.9	34.0	23.8	17.0	13.6	10.2	6.8	3.4	0.0	0.0
75°	774.8	300.7	25.5	17.0	10.2	8.5	6.8	5.1	1.7	0.0	0.0
77.5°	186.9	78.2	20.4	15.3	8.5	5.1	3.4	1.7	1.7	0.0	0.0
80°	57.8	32.3	15.3	10.2	6.8	5.1	1.7	0.0	0.0	0.0	0.0
82.5°	23.8	15.3	6.8	6.8	5.1	1.7	0.0	0.0	0.0	0.0	0.0
85°	11.9	8.5	5.1	3.4	3.4	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	3.4	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)