

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: P483774

Luminaire Tested: **IFLD-S-SA3C-830-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483774
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-830-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

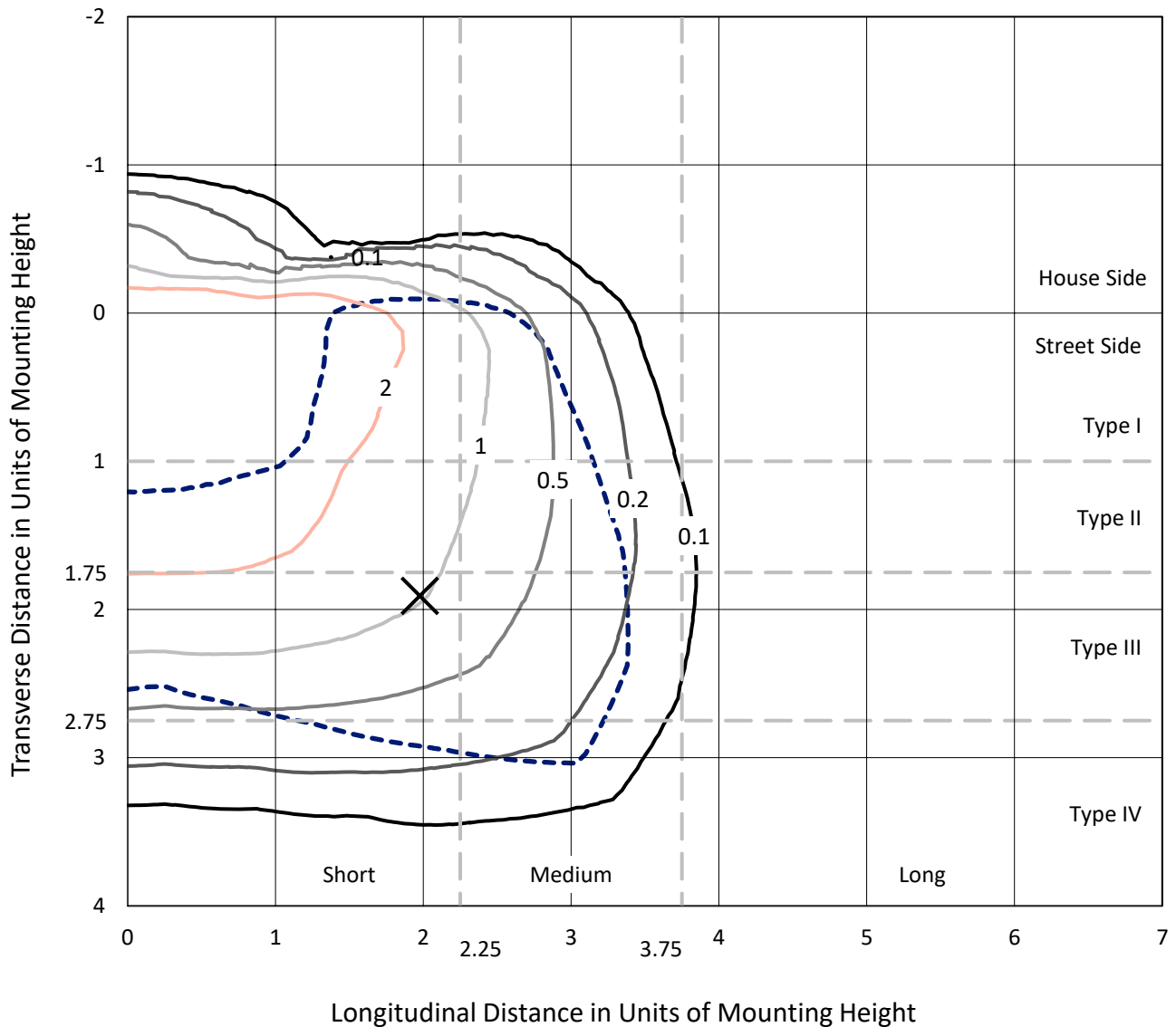
Lumens per Lamp: N/A
Luminaire Lumens: 12418.7 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.8
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

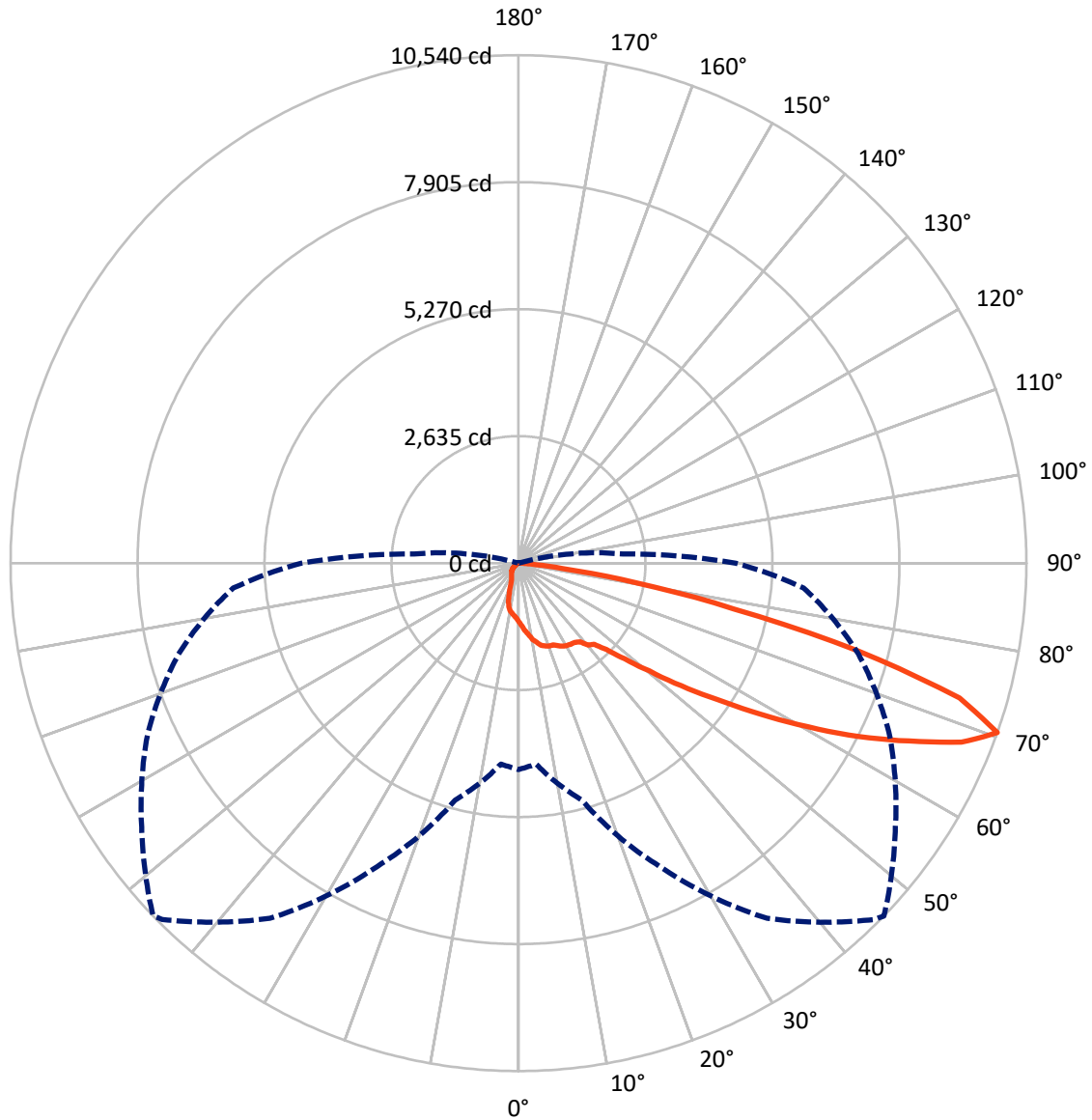
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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	1235.7	0.0	1235.7
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	11183.0	0.0	11183.0
	% Fixture	90.0	0.0	90.0
Total	Lumens	12418.7	0.0	12418.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	1.0
10°-20°	367.1	3.0
20°-30°	588.0	4.7
30°-40°	839.3	6.8
40°-50°	1449.3	11.7
50°-60°	2774.8	22.3
60°-70°	4109.0	33.1
70°-80°	2035.1	16.4
80°-90°	134.5	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°	12418.7	100.0
0°-180°	12418.7	100.0



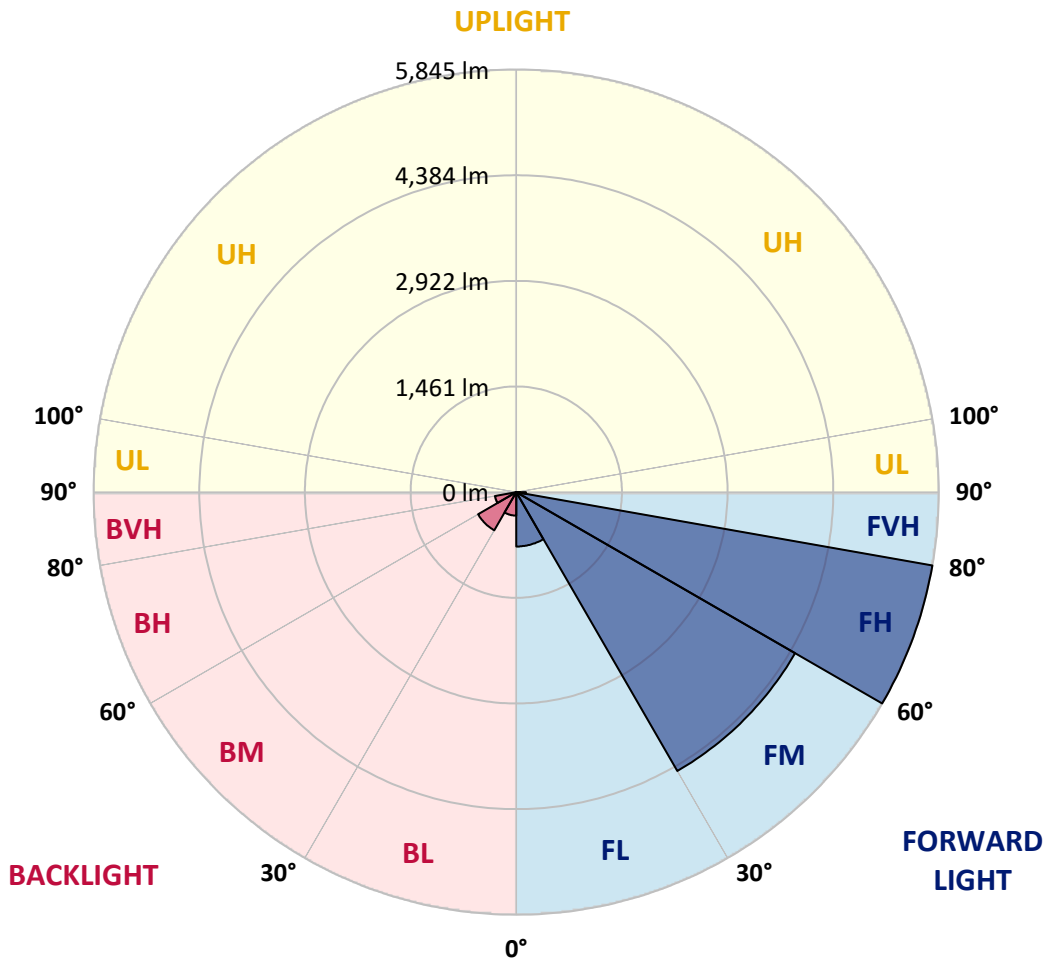
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	752.0	6.1			
FM (30°-60°)	4453.3	35.9			
FH (60°-80°)	5844.9	47.1			G3/7500
FVH (80°-90°)	132.8	1.1			G2/225
BL (0°-30°)	324.6	2.6	B1/500		
BM (30°-60°)	610.1	4.9	B1/1000		
BH (60°-80°)	299.3	2.4	B1/500		G1/500
BVH (80°-90°)	1.7	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°	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1
2.5°	1360.3	1351.4	1337.1	1331.7	1317.4	1310.3	1299.6	1294.2	1274.5	1254.9	1242.4
5°	1526.6	1505.1	1512.3	1490.8	1444.4	1406.8	1405.0	1363.9	1319.2	1283.5	1235.2
7.5°	1694.6	1676.7	1649.9	1619.5	1567.7	1512.3	1496.2	1456.9	1394.3	1331.7	1267.4
10°	1821.5	1809.0	1785.8	1742.9	1671.4	1608.8	1610.6	1544.5	1478.3	1406.8	1319.2
12.5°	1900.2	1905.6	1871.6	1828.7	1766.1	1687.5	1685.7	1641.0	1565.9	1490.8	1387.2
15°	1978.8	1998.5	1946.7	1896.6	1816.2	1759.0	1769.7	1716.1	1642.8	1557.0	1442.6
17.5°	1991.4	1996.7	1986.0	1912.7	1853.7	1805.5	1807.2	1771.5	1716.1	1623.1	1524.8
20°	1969.9	1966.3	1953.8	1900.2	1860.9	1832.3	1834.1	1825.1	1794.7	1719.6	1585.6
22.5°	1907.3	1907.3	1891.3	1855.5	1837.6	1864.4	1843.0	1877.0	1844.8	1800.1	1689.3
25°	1857.3	1877.0	1868.0	1844.8	1851.9	1887.7	1898.4	1930.6	1925.2	1869.8	1760.8
27.5°	1910.9	1887.7	1893.0	1866.2	1893.0	1946.7	1952.0	1975.3	1973.5	1928.8	1825.1
30°	1946.7	1968.1	1927.0	1868.0	1896.6	1987.8	1984.2	2014.6	2028.9	1975.3	1885.9
32.5°	2061.1	2043.2	2009.2	1930.6	1934.2	1986.0	2002.1	2041.4	2050.3	2018.2	1944.9
35°	2295.2	2268.4	2120.1	2002.1	1984.2	2009.2	2020.0	2096.8	2112.9	2077.2	2007.4
37.5°	2656.3	2595.6	2416.8	2155.8	2075.4	2070.0	2070.0	2171.9	2232.7	2150.5	2100.4
40°	3172.9	3087.1	2894.1	2440.0	2195.1	2216.6	2238.0	2293.5	2286.3	2232.7	2222.0
42.5°	3830.8	3764.6	3555.5	2917.3	2424.0	2316.7	2298.8	2373.9	2486.5	2465.1	2457.9
45°	4379.6	4383.1	4249.1	3571.6	2819.0	2547.3	2559.8	2617.0	2806.5	2790.4	2788.6
47.5°	4780.0	4729.9	4710.3	4202.6	3394.6	2985.2	2967.4	3006.7	3253.4	3355.3	3401.8
50°	5144.6	5110.7	5064.2	4815.7	4086.4	3534.0	3516.2	3519.7	3896.9	4039.9	4154.3
52.5°	5596.9	5639.8	5486.1	5334.1	4982.0	4247.3	4227.6	4157.9	4626.2	4822.9	4958.7
55°	6154.6	6074.2	5900.8	5979.4	5838.2	5017.7	4982.0	4899.7	5457.5	5539.7	5682.7
57.5°	6278.0	6217.2	6395.9	6674.8	6810.7	5922.2	5907.9	5759.6	6156.4	6081.3	6485.3
60°	6585.4	6601.5	6850.0	7404.1	7640.1	6966.2	6896.5	6635.5	6833.9	6848.2	7279.0
62.5°	6901.8	6864.3	7420.2	7952.9	8315.8	7954.7	7931.5	7413.1	7638.3	7456.0	8026.2
65°	6669.4	6726.6	7522.1	8414.1	9191.7	8921.8	8902.1	8162.1	8285.4	8058.4	8330.1
67.5°	5843.6	5727.4	6841.0	8203.2	9642.2	9935.3	9913.9	8979.0	8650.1	8054.8	7699.1
70°	4283.0	4182.9	5091.0	6946.5	8996.9	10453.7	10539.5	9547.4	8501.7	7304.0	5940.1
72.5°	2098.6	2100.4	2853.0	4710.3	7118.1	9527.8	9570.7	8753.8	7304.0	5384.2	3364.2
75°	620.3	627.4	1056.5	2309.5	4601.2	7236.1	7284.4	6644.4	5062.4	2781.5	1147.6
77.5°	227.0	227.0	350.4	867.0	2295.2	4567.3	4563.7	4079.2	2563.4	942.1	268.1
80°	118.0	123.3	182.3	353.9	993.9	2379.3	2468.6	1996.7	974.2	396.8	78.7
82.5°	48.3	53.6	100.1	182.3	477.3	834.8	913.5	783.0	423.7	277.1	35.8
85°	14.3	16.1	48.3	101.9	187.7	209.1	232.4	262.8	266.3	214.5	16.1
87.5°	1.8	1.8	19.7	34.0	41.1	44.7	51.8	51.8	135.9	150.2	8.9
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°	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1	1219.1
2.5°	1228.1	1219.1	1204.8	1172.6	1165.5	1142.3	1140.5	1119.0	1126.2	1111.9	1106.5
5°	1219.1	1199.5	1160.1	1135.1	1110.1	1094.0	1083.3	1074.3	1072.5	1065.4	1061.8
7.5°	1235.2	1208.4	1147.6	1108.3	1065.4	1051.1	1027.9	1026.1	1013.6	1001.0	1001.0
10°	1288.8	1240.6	1174.4	1108.3	1052.9	1006.4	952.8	913.5	899.1	867.0	870.5
12.5°	1331.7	1288.8	1192.3	1124.4	1040.4	934.9	816.9	725.8	682.9	641.7	657.8
15°	1392.5	1330.0	1226.3	1128.0	992.1	809.8	616.7	514.8	475.5	466.6	464.8
17.5°	1458.7	1392.5	1269.2	1119.0	893.8	625.7	454.0	395.1	402.2	412.9	411.1
20°	1532.0	1451.5	1301.4	1088.6	738.3	454.0	371.8	370.0	380.8	396.8	400.4
22.5°	1608.8	1539.1	1340.7	997.5	550.6	364.7	357.5	357.5	364.7	384.3	380.8
25°	1694.6	1601.7	1360.3	856.2	395.1	336.1	339.6	346.8	350.4	366.5	368.2
27.5°	1760.8	1671.4	1365.7	686.4	321.8	311.0	320.0	328.9	334.3	346.8	352.2
30°	1821.5	1759.0	1337.1	511.2	294.9	289.6	293.2	305.7	316.4	327.1	327.1
32.5°	1898.4	1809.0	1271.0	362.9	278.9	269.9	268.1	273.5	286.0	298.5	298.5
35°	1977.1	1893.0	1165.5	291.4	264.6	252.0	244.9	239.5	244.9	253.8	261.0
37.5°	2091.5	2020.0	1033.2	268.1	253.8	236.0	221.7	209.1	200.2	198.4	203.8
40°	2254.1	2163.0	863.4	252.0	241.3	219.9	198.4	177.0	157.3	144.8	146.6
42.5°	2500.8	2373.9	679.3	243.1	232.4	202.0	171.6	141.2	116.2	103.7	103.7
45°	2853.0	2652.8	498.7	234.2	221.7	180.5	141.2	105.5	80.4	73.3	75.1
47.5°	3383.9	2988.8	357.5	219.9	207.4	157.3	110.8	75.1	59.0	55.4	57.2
50°	4077.5	3387.5	278.9	203.8	189.5	132.3	82.2	55.4	46.5	44.7	46.5
52.5°	4805.0	3789.7	244.9	189.5	162.7	105.5	60.8	44.7	39.3	37.5	39.3
55°	5427.1	4048.9	212.7	168.0	130.5	78.7	48.3	39.3	34.0	28.6	28.6
57.5°	6056.3	4179.3	168.0	139.4	96.5	59.0	41.1	34.0	28.6	23.2	21.5
60°	6567.5	4272.3	119.8	103.7	67.9	46.5	35.8	30.4	23.2	17.9	16.1
62.5°	6903.6	4006.0	87.6	78.7	50.1	39.3	30.4	25.0	17.9	12.5	12.5
65°	6737.4	3637.7	67.9	55.4	37.5	30.4	25.0	17.9	12.5	7.2	5.4
67.5°	6045.6	2963.8	55.4	41.1	28.6	23.2	19.7	14.3	7.2	1.8	1.8
70°	4510.1	2171.9	44.7	30.4	23.2	17.9	14.3	8.9	3.6	1.8	0.0
72.5°	2466.9	1188.7	35.8	25.0	17.9	14.3	10.7	7.2	3.6	0.0	0.0
75°	815.1	316.4	26.8	17.9	10.7	8.9	7.2	5.4	1.8	0.0	0.0
77.5°	196.6	82.2	21.5	16.1	8.9	5.4	3.6	1.8	1.8	0.0	0.0
80°	60.8	34.0	16.1	10.7	7.2	5.4	1.8	0.0	0.0	0.0	0.0
82.5°	25.0	16.1	7.2	7.2	5.4	1.8	0.0	0.0	0.0	0.0	0.0
85°	12.5	8.9	5.4	3.6	3.6	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	3.6	1.8	1.8	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)