

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: P483558

Luminaire Tested: **IFLD-M-SA4A-730-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483558
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

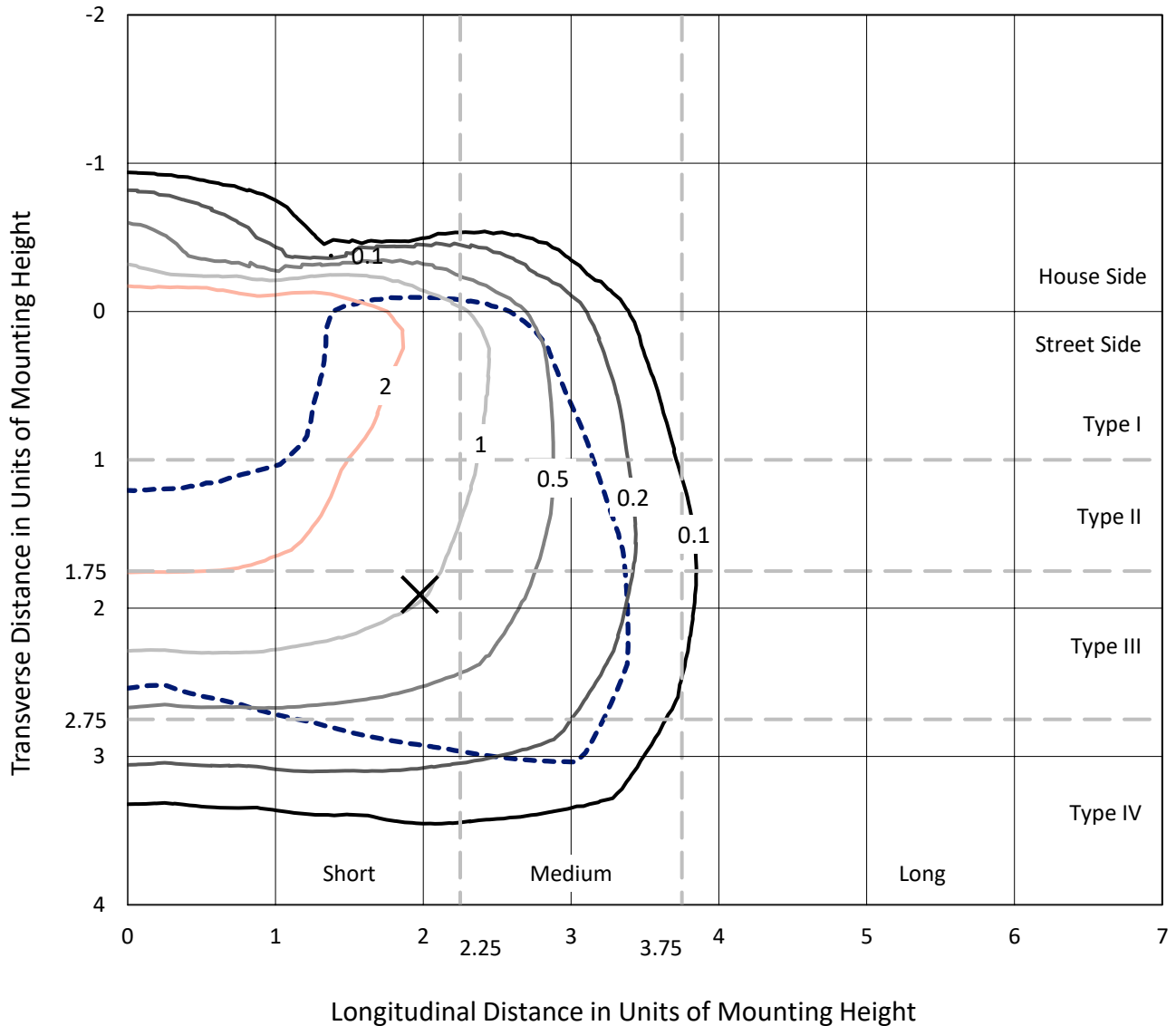
Lumens per Lamp: N/A
Luminaire Lumens: 12407.7 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 128.6
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

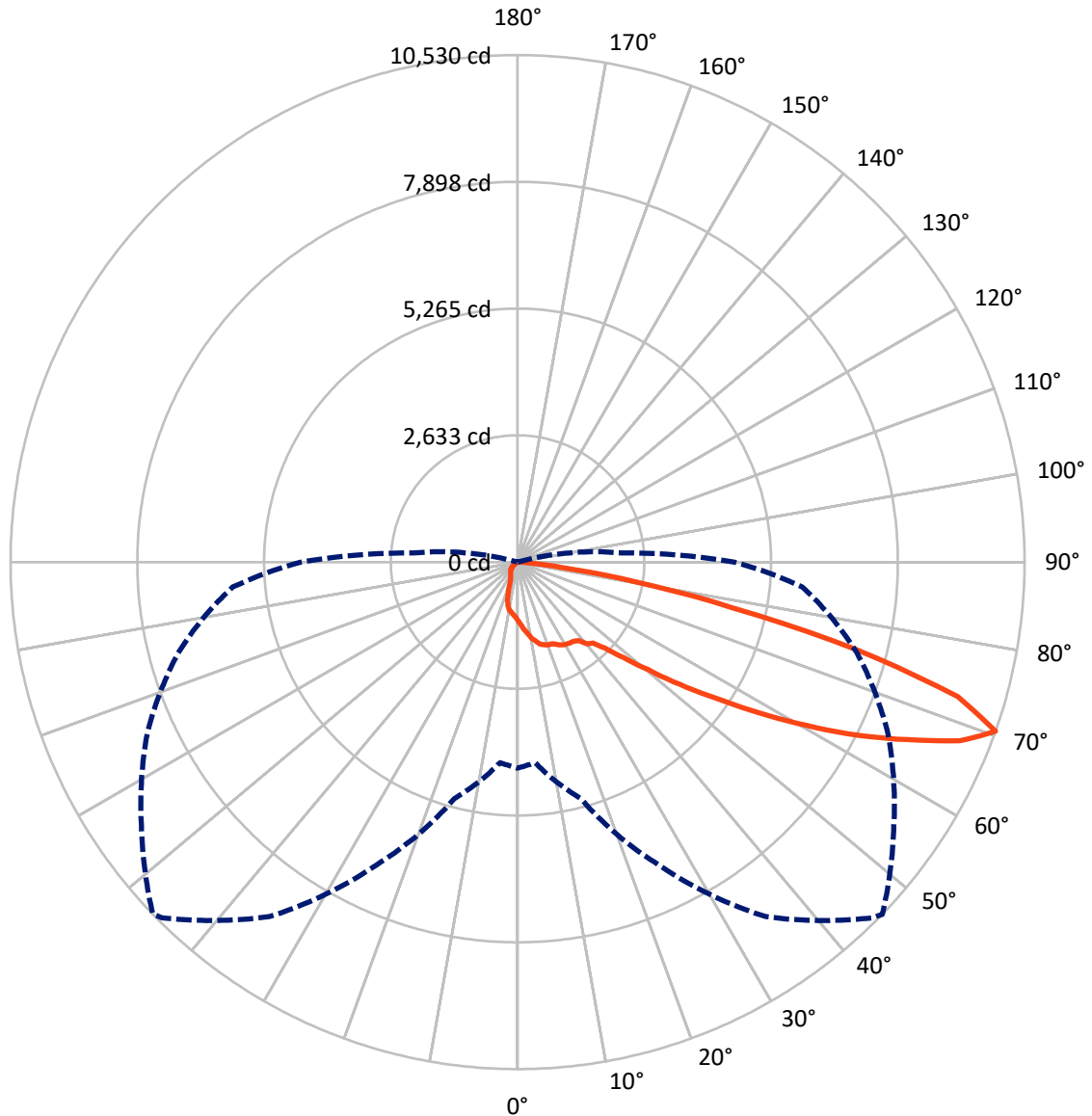
× Max cd
 - - - 1/2 Max cd



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	1234.6	0.0	1234.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	11173.1	0.0	11173.1
	% Fixture	90.0	0.0	90.0
Total	Lumens	12407.7	0.0	12407.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	1.0
10°-20°	366.8	3.0
20°-30°	587.5	4.7
30°-40°	838.6	6.8
40°-50°	1448.0	11.7
50°-60°	2772.3	22.3
60°-70°	4105.4	33.1
70°-80°	2033.4	16.4
80°-90°	134.4	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°	12407.7	100.0
0°-180°	12407.7	100.0



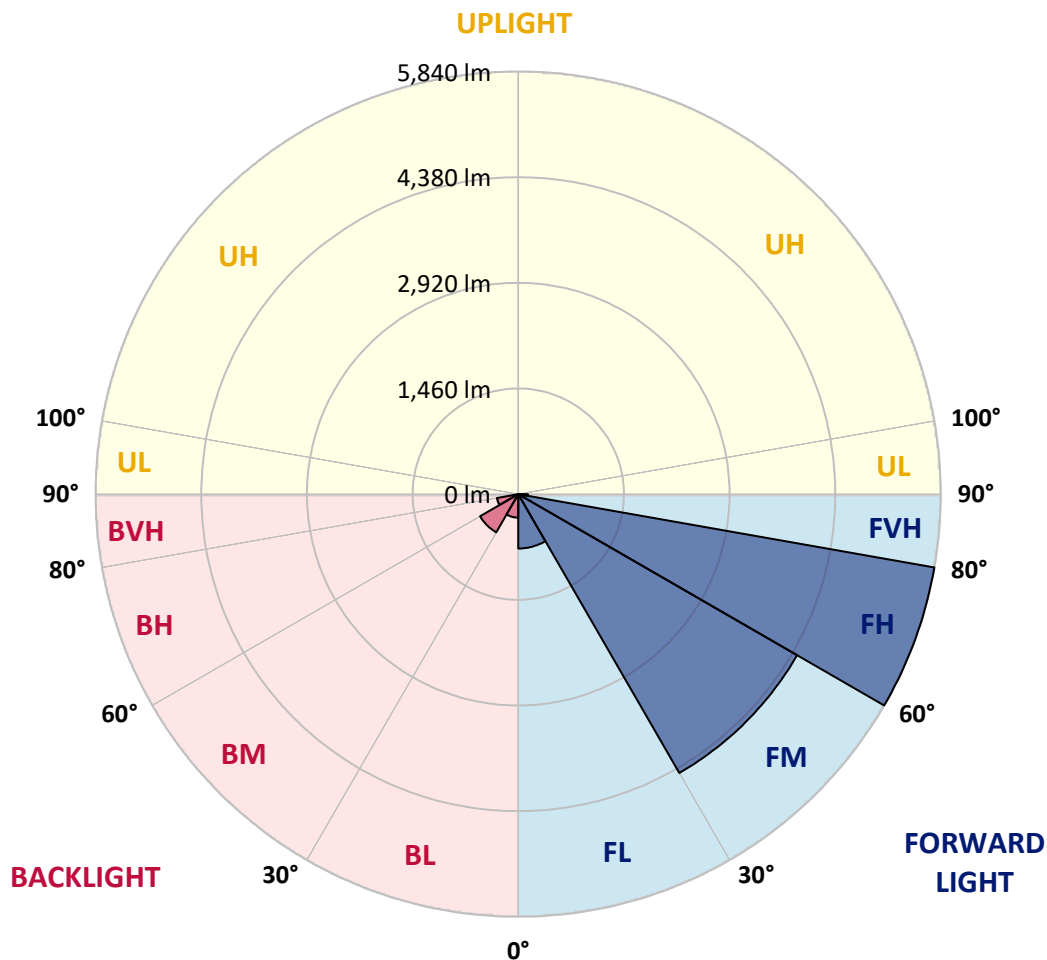
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	751.4	6.1			
FM (30°-60°)	4449.4	35.9			
FH (60°-80°)	5839.7	47.1			G3/7500
FVH (80°-90°)	132.7	1.1			G2/225
BL (0°-30°)	324.4	2.6	B1/500		
BM (30°-60°)	609.5	4.9	B1/1000		
BH (60°-80°)	299.0	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°	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1
2.5°	1359.1	1350.2	1335.9	1330.6	1316.3	1309.1	1298.4	1293.1	1273.4	1253.8	1241.3
5°	1525.2	1503.8	1511.0	1489.5	1443.1	1405.6	1403.8	1362.7	1318.1	1282.3	1234.1
7.5°	1693.1	1675.3	1648.5	1618.1	1566.3	1511.0	1494.9	1455.6	1393.1	1330.6	1266.3
10°	1819.9	1807.4	1784.2	1741.4	1669.9	1607.4	1609.2	1543.1	1477.0	1405.6	1318.1
12.5°	1898.5	1903.9	1869.9	1827.1	1764.6	1686.0	1684.2	1639.5	1564.5	1489.5	1385.9
15°	1977.1	1996.7	1945.0	1894.9	1814.6	1757.4	1768.1	1714.6	1641.3	1555.6	1441.3
17.5°	1989.6	1995.0	1984.2	1911.0	1852.1	1803.9	1805.6	1769.9	1714.6	1621.7	1523.5
20°	1968.2	1964.6	1952.1	1898.5	1859.2	1830.7	1832.4	1823.5	1793.1	1718.1	1584.2
22.5°	1905.7	1905.7	1889.6	1853.9	1836.0	1862.8	1841.4	1875.3	1843.2	1798.5	1687.8
25°	1855.7	1875.3	1866.4	1843.2	1850.3	1886.0	1896.7	1928.9	1923.5	1868.2	1759.2
27.5°	1909.2	1886.0	1891.4	1864.6	1891.4	1945.0	1950.3	1973.5	1971.7	1927.1	1823.5
30°	1945.0	1966.4	1925.3	1866.4	1894.9	1986.0	1982.5	2012.8	2027.1	1973.5	1884.2
32.5°	2059.3	2041.4	2007.5	1928.9	1932.5	1984.2	2000.3	2039.6	2048.5	2016.4	1943.2
35°	2293.2	2266.4	2118.2	2000.3	1982.5	2007.5	2018.2	2095.0	2111.1	2075.3	2005.7
37.5°	2654.0	2593.3	2414.7	2153.9	2073.5	2068.2	2068.2	2170.0	2230.7	2148.6	2098.6
40°	3170.2	3084.4	2891.5	2437.9	2193.2	2214.6	2236.1	2291.4	2284.3	2230.7	2220.0
42.5°	3827.4	3761.3	3552.4	2914.8	2421.8	2314.7	2296.8	2371.8	2484.3	2462.9	2455.8
45°	4375.7	4379.3	4245.3	3568.4	2816.5	2545.1	2557.6	2614.7	2804.0	2787.9	2786.2
47.5°	4775.8	4725.8	4706.1	4198.9	3391.6	2982.6	2964.8	3004.1	3250.5	3352.3	3398.8
50°	5140.1	5106.2	5059.7	4811.5	4082.8	3530.9	3513.1	3516.6	3893.5	4036.4	4150.7
52.5°	5592.0	5634.8	5481.2	5329.4	4977.6	4243.5	4223.9	4154.2	4622.2	4818.6	4954.4
55°	6149.2	6068.8	5895.6	5974.2	5833.1	5013.3	4977.6	4895.4	5452.7	5534.8	5677.7
57.5°	6272.4	6211.7	6390.3	6668.9	6804.7	5917.0	5902.7	5754.5	6151.0	6076.0	6479.6
60°	6579.6	6595.7	6844.0	7397.6	7633.4	6960.0	6890.4	6629.6	6827.9	6842.2	7272.6
62.5°	6895.7	6858.2	7413.7	7945.9	8308.5	7947.7	7924.5	7406.5	7631.6	7449.4	8019.1
65°	6663.6	6720.7	7515.5	8406.7	9183.6	8913.9	8894.3	8154.9	8278.1	8051.3	8322.8
67.5°	5838.4	5722.3	6835.0	8196.0	9633.7	9926.6	9905.2	8971.1	8642.5	8047.7	7692.3
70°	4279.3	4179.2	5086.5	6940.4	8988.9	10444.5	10530.3	9539.0	8494.2	7297.6	5934.9
72.5°	2096.8	2098.6	2850.5	4706.1	7111.9	9519.4	9562.2	8746.0	7297.6	5379.4	3361.3
75°	619.7	626.9	1055.5	2307.5	4597.2	7229.7	7278.0	6638.6	5058.0	2779.0	1146.6
77.5°	226.8	226.8	350.1	866.2	2293.2	4563.2	4559.7	4075.7	2561.1	941.2	267.9
80°	117.9	123.2	182.2	353.6	993.0	2377.2	2466.5	1995.0	973.4	396.5	78.6
82.5°	48.2	53.6	100.0	182.2	476.9	834.1	912.6	782.3	423.3	276.8	35.7
85°	14.3	16.1	48.2	101.8	187.5	209.0	232.2	262.5	266.1	214.3	16.1
87.5°	1.8	1.8	19.6	33.9	41.1	44.7	51.8	51.8	135.7	150.0	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°	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1	1218.1
2.5°	1227.0	1218.1	1203.8	1171.6	1164.5	1141.3	1139.5	1118.0	1125.2	1110.9	1105.5
5°	1218.1	1198.4	1159.1	1134.1	1109.1	1093.0	1082.3	1073.4	1071.6	1064.5	1060.9
7.5°	1234.1	1207.3	1146.6	1107.3	1064.5	1050.2	1027.0	1025.2	1012.7	1000.2	1000.2
10°	1287.7	1239.5	1173.4	1107.3	1052.0	1005.5	951.9	912.6	898.4	866.2	869.8
12.5°	1330.6	1287.7	1191.3	1123.4	1039.5	934.1	816.2	725.1	682.3	641.2	657.2
15°	1391.3	1328.8	1225.2	1127.0	991.2	809.1	616.2	514.4	475.1	466.1	464.4
17.5°	1457.4	1391.3	1268.1	1118.0	893.0	625.1	453.6	394.7	401.9	412.6	410.8
20°	1530.6	1450.2	1300.2	1087.7	737.6	453.6	371.5	369.7	380.4	396.5	400.1
22.5°	1607.4	1537.7	1339.5	996.6	550.1	364.3	357.2	357.2	364.3	384.0	380.4
25°	1693.1	1600.3	1359.1	855.5	394.7	335.8	339.3	346.5	350.1	366.1	367.9
27.5°	1759.2	1669.9	1364.5	685.8	321.5	310.8	319.7	328.6	334.0	346.5	351.8
30°	1819.9	1757.4	1335.9	510.8	294.7	289.3	292.9	305.4	316.1	326.8	326.8
32.5°	1896.7	1807.4	1269.8	362.6	278.6	269.7	267.9	273.3	285.8	298.3	298.3
35°	1975.3	1891.4	1164.5	291.1	264.3	251.8	244.7	239.3	244.7	253.6	260.8
37.5°	2089.6	2018.2	1032.3	267.9	253.6	235.8	221.5	209.0	200.0	198.2	203.6
40°	2252.1	2161.1	862.6	251.8	241.1	219.7	198.2	176.8	157.2	144.7	146.5
42.5°	2498.6	2371.8	678.7	242.9	232.2	201.8	171.5	141.1	116.1	103.6	103.6
45°	2850.5	2650.4	498.3	234.0	221.5	180.4	141.1	105.4	80.4	73.2	75.0
47.5°	3380.9	2986.2	357.2	219.7	207.2	157.2	110.7	75.0	58.9	55.4	57.2
50°	4073.9	3384.5	278.6	203.6	189.3	132.2	82.2	55.4	46.4	44.7	46.4
52.5°	4800.8	3786.3	244.7	189.3	162.5	105.4	60.7	44.7	39.3	37.5	39.3
55°	5422.3	4045.3	212.5	167.9	130.4	78.6	48.2	39.3	33.9	28.6	28.6
57.5°	6051.0	4175.7	167.9	139.3	96.4	58.9	41.1	33.9	28.6	23.2	21.4
60°	6561.8	4268.5	119.7	103.6	67.9	46.4	35.7	30.4	23.2	17.9	16.1
62.5°	6897.5	4002.4	87.5	78.6	50.0	39.3	30.4	25.0	17.9	12.5	12.5
65°	6731.4	3634.5	67.9	55.4	37.5	30.4	25.0	17.9	12.5	7.1	5.4
67.5°	6040.3	2961.2	55.4	41.1	28.6	23.2	19.6	14.3	7.1	1.8	1.8
70°	4506.1	2170.0	44.7	30.4	23.2	17.9	14.3	8.9	3.6	1.8	0.0
72.5°	2464.7	1187.7	35.7	25.0	17.9	14.3	10.7	7.1	3.6	0.0	0.0
75°	814.4	316.1	26.8	17.9	10.7	8.9	7.1	5.4	1.8	0.0	0.0
77.5°	196.5	82.2	21.4	16.1	8.9	5.4	3.6	1.8	1.8	0.0	0.0
80°	60.7	33.9	16.1	10.7	7.1	5.4	1.8	0.0	0.0	0.0	0.0
82.5°	25.0	16.1	7.1	7.1	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)