

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: P483519

Luminaire Tested: **IFLD-M-SA4A-727-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483519
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-727-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

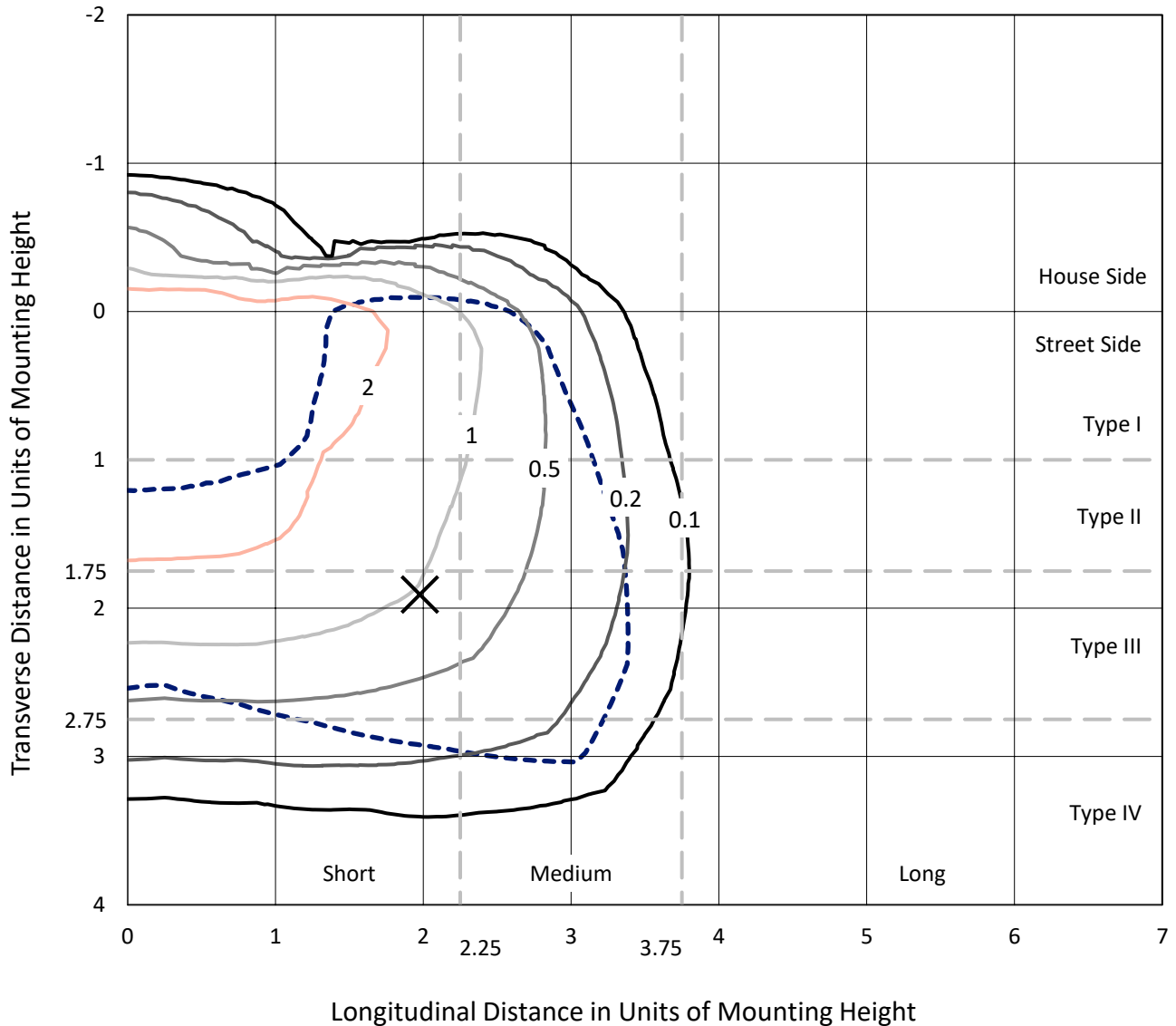
Lumens per Lamp: N/A
Luminaire Lumens: 11395.3 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

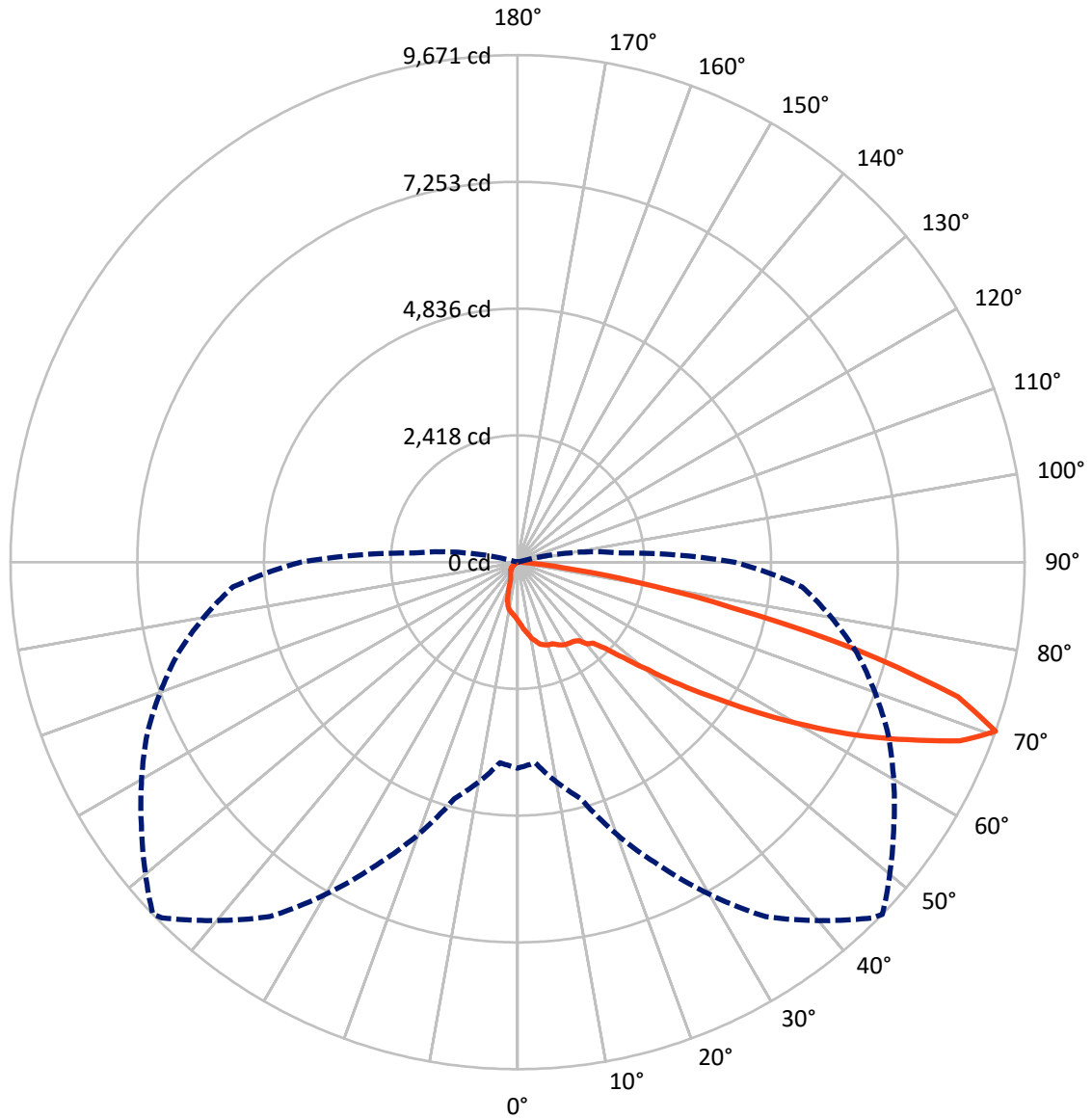
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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	1133.9	0.0	1133.9
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	10261.5	0.0	10261.5
	% Fixture	90.0	0.0	90.0
Total	Lumens	11395.3	0.0	11395.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	1.0
10°-20°	336.9	3.0
20°-30°	539.6	4.7
30°-40°	770.2	6.8
40°-50°	1329.9	11.7
50°-60°	2546.1	22.3
60°-70°	3770.4	33.1
70°-80°	1867.4	16.4
80°-90°	123.4	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°	11395.3	100.0
0°-180°	11395.3	100.0

Coefficient of Utilization



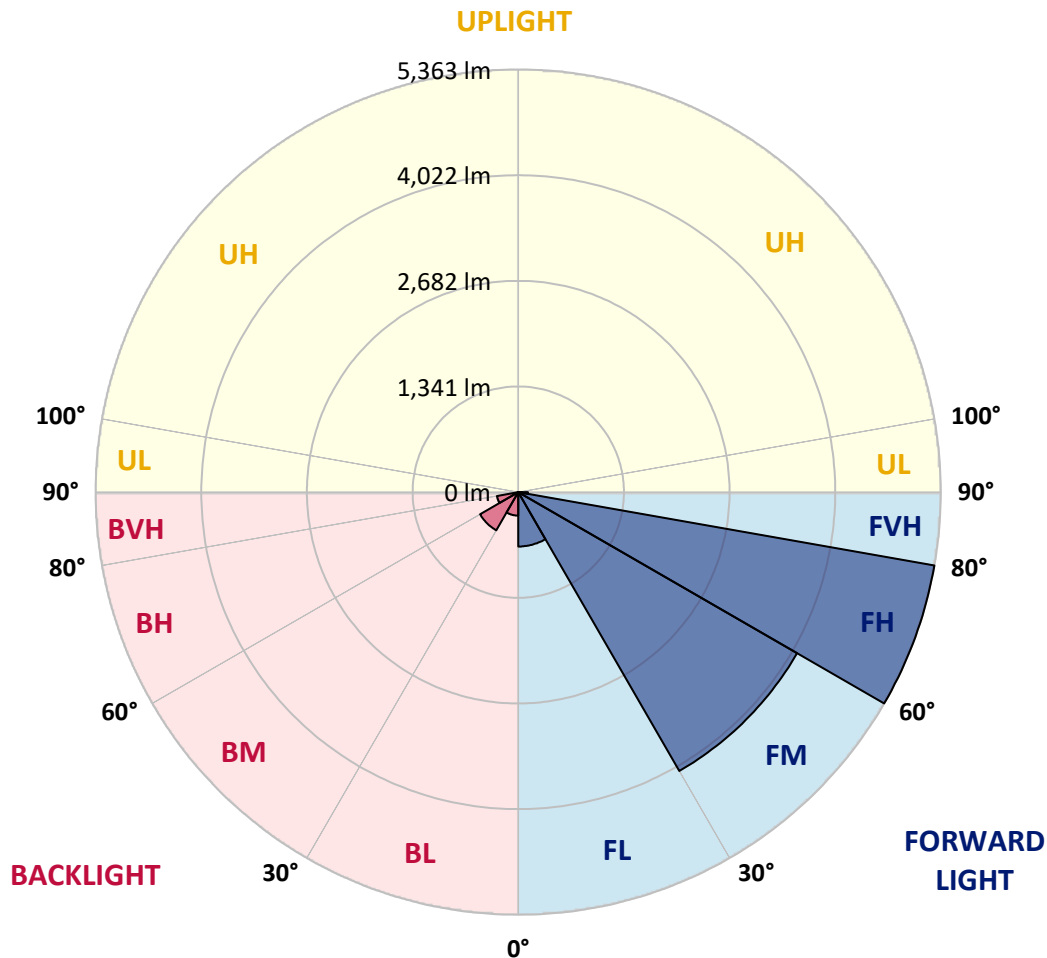
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	690.1	6.1			
FM (30°-60°)	4086.3	35.9			
FH (60°-80°)	5363.2	47.1			G3/7500
FVH (80°-90°)	121.8	1.1			G2/225
BL (0°-30°)	297.9	2.6	B1/500		
BM (30°-60°)	559.8	4.9	B1/1000		
BH (60°-80°)	274.6	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°	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7
2.5°	1248.2	1240.0	1226.9	1222.0	1208.9	1202.3	1192.5	1187.6	1169.5	1151.5	1140.0
5°	1400.8	1381.1	1387.7	1368.0	1325.3	1290.9	1289.3	1251.5	1210.5	1177.7	1133.4
7.5°	1555.0	1538.6	1514.0	1486.1	1438.5	1387.7	1372.9	1336.8	1279.4	1222.0	1163.0
10°	1671.4	1660.0	1638.6	1599.3	1533.7	1476.2	1477.9	1417.2	1356.5	1290.9	1210.5
12.5°	1743.6	1748.5	1717.4	1678.0	1620.6	1548.4	1546.8	1505.8	1436.9	1368.0	1272.9
15°	1815.8	1833.8	1786.3	1740.3	1666.5	1614.0	1623.9	1574.7	1507.4	1428.7	1323.7
17.5°	1827.3	1832.2	1822.3	1755.1	1701.0	1656.7	1658.3	1625.5	1574.7	1489.4	1399.2
20°	1807.6	1804.3	1792.8	1743.6	1707.5	1681.3	1682.9	1674.7	1646.8	1577.9	1454.9
22.5°	1750.2	1750.2	1735.4	1702.6	1686.2	1710.8	1691.1	1722.3	1692.8	1651.8	1550.1
25°	1704.2	1722.3	1714.1	1692.8	1699.3	1732.1	1742.0	1771.5	1766.6	1715.7	1615.7
27.5°	1753.5	1732.1	1737.0	1712.4	1737.0	1786.3	1791.2	1812.5	1810.9	1769.9	1674.7
30°	1786.3	1805.9	1768.2	1714.1	1740.3	1824.0	1820.7	1848.6	1861.7	1812.5	1730.5
32.5°	1891.2	1874.8	1843.7	1771.5	1774.8	1822.3	1837.1	1873.2	1881.4	1851.9	1784.6
35°	2106.1	2081.5	1945.4	1837.1	1820.7	1843.7	1853.5	1924.0	1938.8	1906.0	1842.0
37.5°	2437.4	2381.7	2217.6	1978.2	1904.4	1899.4	1899.4	1992.9	2048.7	1973.2	1927.3
40°	2911.5	2832.8	2655.6	2239.0	2014.3	2033.9	2053.6	2104.5	2097.9	2048.7	2038.9
42.5°	3515.1	3454.4	3262.5	2676.9	2224.2	2125.8	2109.4	2178.3	2281.6	2261.9	2255.4
45°	4018.7	4021.9	3898.9	3277.3	2586.7	2337.4	2348.9	2401.4	2575.2	2560.5	2558.8
47.5°	4386.1	4340.2	4322.1	3856.3	3114.9	2739.3	2722.9	2758.9	2985.3	3078.8	3121.4
50°	4720.7	4689.5	4646.9	4418.9	3749.7	3242.8	3226.4	3229.7	3575.8	3707.0	3812.0
52.5°	5135.7	5175.1	5034.0	4894.6	4571.4	3897.3	3879.2	3815.3	4245.0	4425.5	4550.1
55°	5647.5	5573.6	5414.5	5486.7	5357.1	4604.2	4571.4	4496.0	5007.8	5083.2	5214.4
57.5°	5760.6	5704.9	5868.9	6124.8	6249.4	5434.2	5421.1	5285.0	5649.1	5580.2	5950.9
60°	6042.8	6057.5	6285.5	6794.0	7010.5	6392.1	6328.2	6088.7	6270.8	6283.9	6679.2
62.5°	6333.1	6298.6	6808.8	7297.6	7630.5	7299.2	7277.9	6802.2	7008.9	6841.6	7364.8
65°	6119.9	6172.3	6902.3	7720.8	8434.3	8186.6	8168.6	7489.5	7602.7	7394.3	7643.7
67.5°	5362.1	5255.4	6277.3	7527.2	8847.6	9116.6	9097.0	8239.1	7937.3	7391.1	7064.7
70°	3930.1	3838.2	4671.5	6374.1	8255.5	9592.3	9671.0	8760.7	7801.1	6702.2	5450.6
72.5°	1925.7	1927.3	2617.9	4322.1	6531.6	8742.7	8782.0	8032.4	6702.2	4940.5	3087.0
75°	569.2	575.7	969.4	2119.2	4222.1	6639.8	6684.1	6096.9	4645.3	2552.3	1053.1
77.5°	208.3	208.3	321.5	795.5	2106.1	4190.9	4187.6	3743.1	2352.2	864.4	246.0
80°	108.3	113.2	167.3	324.8	912.0	2183.2	2265.2	1832.2	893.9	364.1	72.2
82.5°	44.3	49.2	91.9	167.3	438.0	766.0	838.2	718.4	388.7	254.2	32.8
85°	13.1	14.8	44.3	93.5	172.2	191.9	213.2	241.1	244.4	196.8	14.8
87.5°	1.6	1.6	18.0	31.2	37.7	41.0	47.6	47.6	124.7	137.8	8.2
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°	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7	1118.7
2.5°	1126.9	1118.7	1105.5	1076.0	1069.5	1048.1	1046.5	1026.8	1033.4	1020.2	1015.3
5°	1118.7	1100.6	1064.5	1041.6	1018.6	1003.8	994.0	985.8	984.2	977.6	974.3
7.5°	1133.4	1108.8	1053.1	1017.0	977.6	964.5	943.2	941.5	930.0	918.6	918.6
10°	1182.6	1138.3	1077.7	1017.0	966.1	923.5	874.3	838.2	825.1	795.5	798.8
12.5°	1222.0	1182.6	1094.1	1031.7	954.6	857.9	749.6	666.0	626.6	588.9	603.6
15°	1277.8	1220.4	1125.2	1035.0	910.4	743.0	565.9	472.4	436.3	428.1	426.5
17.5°	1338.5	1277.8	1164.6	1026.8	820.1	574.1	416.6	362.5	369.1	378.9	377.3
20°	1405.7	1331.9	1194.1	998.9	677.4	416.6	341.2	339.5	349.4	364.1	367.4
22.5°	1476.2	1412.3	1230.2	915.3	505.2	334.6	328.1	328.1	334.6	352.7	349.4
25°	1555.0	1469.7	1248.2	785.7	362.5	308.4	311.7	318.2	321.5	336.3	337.9
27.5°	1615.7	1533.7	1253.2	629.9	295.2	285.4	293.6	301.8	306.7	318.2	323.1
30°	1671.4	1614.0	1226.9	469.1	270.6	265.7	269.0	280.5	290.3	300.2	300.2
32.5°	1742.0	1660.0	1166.2	333.0	255.9	247.7	246.0	251.0	262.4	273.9	273.9
35°	1814.1	1737.0	1069.5	267.4	242.8	231.3	224.7	219.8	224.7	232.9	239.5
37.5°	1919.1	1853.5	948.1	246.0	232.9	216.5	203.4	191.9	183.7	182.1	187.0
40°	2068.4	1984.7	792.3	231.3	221.4	201.8	182.1	162.4	144.3	132.9	134.5
42.5°	2294.7	2178.3	623.3	223.1	213.2	185.4	157.5	129.6	106.6	95.1	95.1
45°	2617.9	2434.2	457.6	214.9	203.4	165.7	129.6	96.8	73.8	67.3	68.9
47.5°	3105.0	2742.5	328.1	201.8	190.3	144.3	101.7	68.9	54.1	50.8	52.5
50°	3741.5	3108.3	255.9	187.0	173.9	121.4	75.5	50.8	42.6	41.0	42.6
52.5°	4409.1	3477.4	224.7	173.9	149.3	96.8	55.8	41.0	36.1	34.4	36.1
55°	4979.9	3715.2	195.2	154.2	119.7	72.2	44.3	36.1	31.2	26.2	26.2
57.5°	5557.2	3835.0	154.2	127.9	88.6	54.1	37.7	31.2	26.2	21.3	19.7
60°	6026.4	3920.3	109.9	95.1	62.3	42.6	32.8	27.9	21.3	16.4	14.8
62.5°	6334.7	3675.9	80.4	72.2	45.9	36.1	27.9	23.0	16.4	11.5	11.5
65°	6182.2	3338.0	62.3	50.8	34.4	27.9	23.0	16.4	11.5	6.6	4.9
67.5°	5547.4	2719.6	50.8	37.7	26.2	21.3	18.0	13.1	6.6	1.6	1.6
70°	4138.4	1992.9	41.0	27.9	21.3	16.4	13.1	8.2	3.3	1.6	0.0
72.5°	2263.6	1090.8	32.8	23.0	16.4	13.1	9.8	6.6	3.3	0.0	0.0
75°	748.0	290.3	24.6	16.4	9.8	8.2	6.6	4.9	1.6	0.0	0.0
77.5°	180.4	75.5	19.7	14.8	8.2	4.9	3.3	1.6	1.6	0.0	0.0
80°	55.8	31.2	14.8	9.8	6.6	4.9	1.6	0.0	0.0	0.0	0.0
82.5°	23.0	14.8	6.6	6.6	4.9	1.6	0.0	0.0	0.0	0.0	0.0
85°	11.5	8.2	4.9	3.3	3.3	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	3.3	1.6	1.6	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)