

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: P481784

Luminaire Tested: **IFLD-S-SA3B-827-U-T2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481784
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

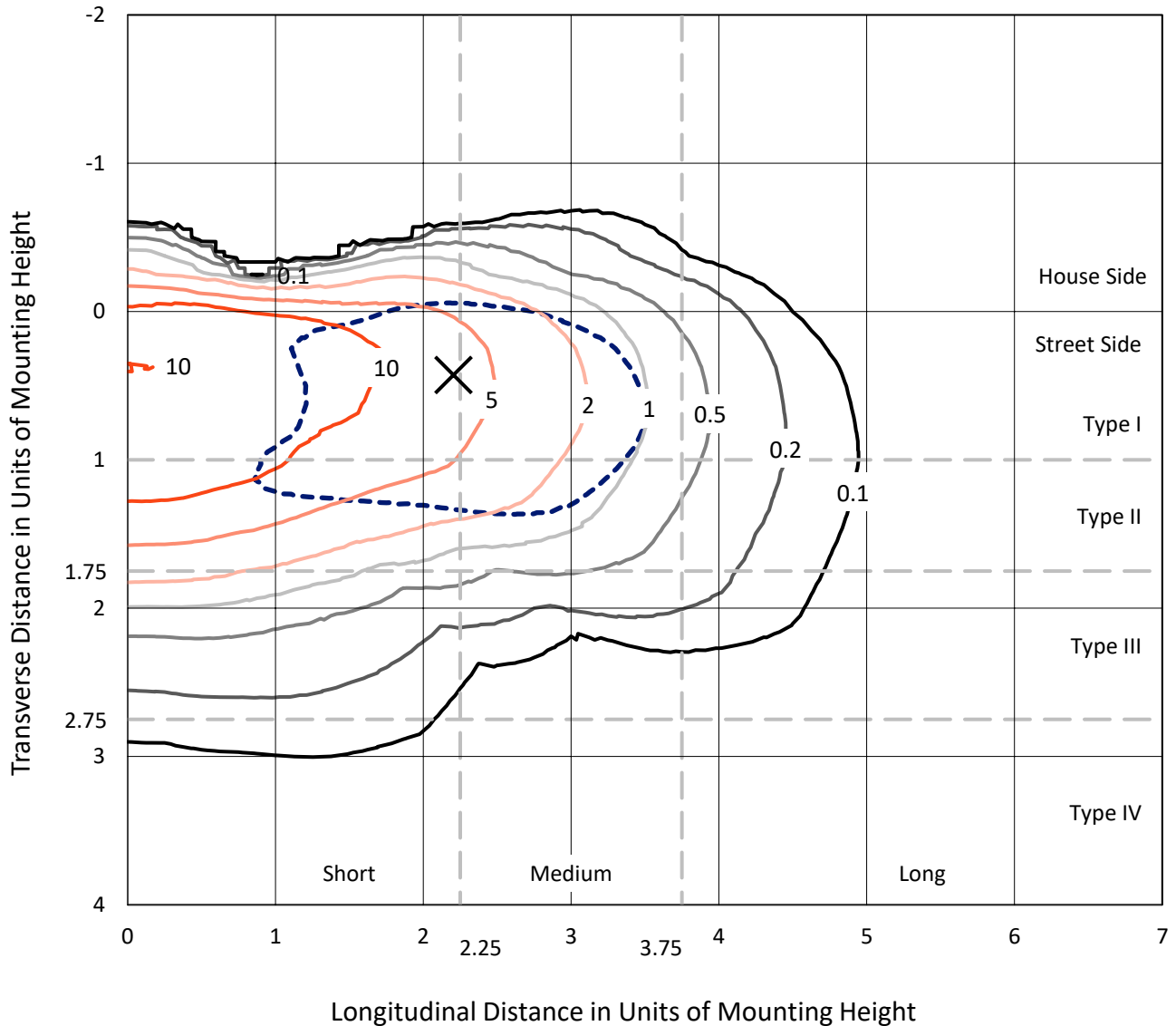
Lumens per Lamp: N/A
Luminaire Lumens: 9007.8 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
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

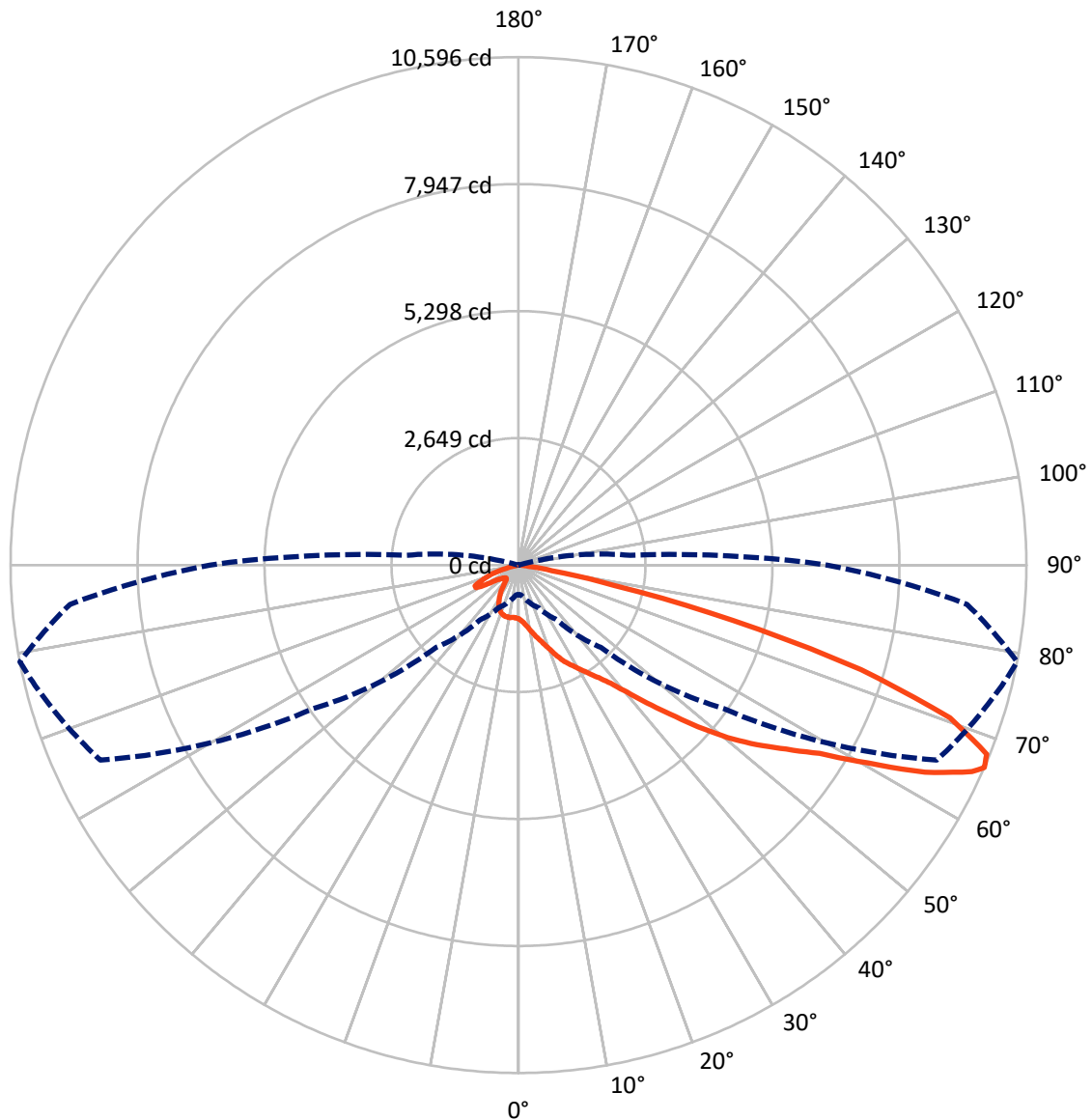
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	676.4	0.0	676.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	8331.4	0.0	8331.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	9007.8	0.0	9007.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	1.2
10°-20°	291.7	3.2
20°-30°	484.6	5.4
30°-40°	832.3	9.2
40°-50°	1507.8	16.7
50°-60°	2383.4	26.5
60°-70°	2425.3	26.9
70°-80°	924.9	10.3
80°-90°	51.9	0.6
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°	9007.8	100.0
0°-180°	9007.8	100.0



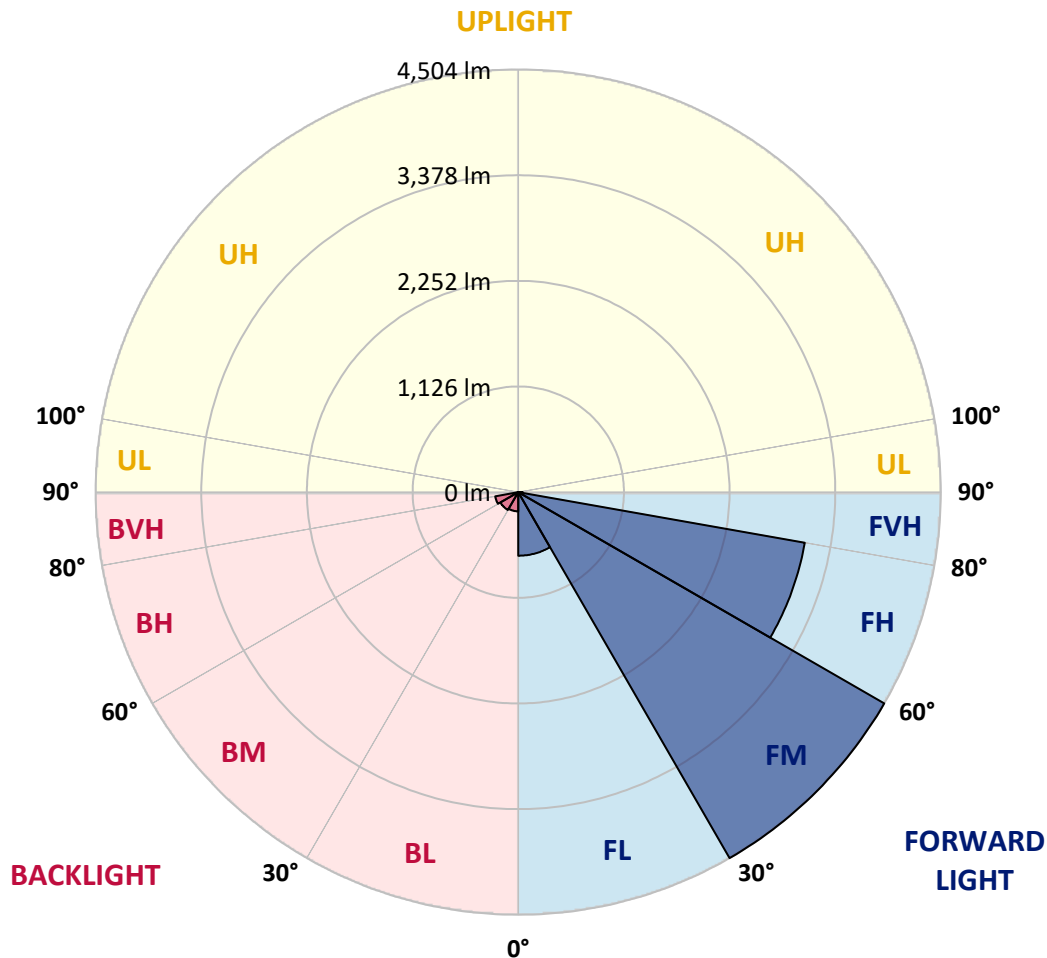
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	677.7	7.5			
FM (30°-60°)	4503.7	50.0			
FH (60°-80°)	3100.8	34.4			G2/5000
FVH (80°-90°)	49.2	0.5			G1/100
BL (0°-30°)	204.5	2.3	B1/500		
BM (30°-60°)	219.8	2.4	B0/220		
BH (60°-80°)	249.3	2.8	B1/500		G1/500
BVH (80°-90°)	2.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7
2.5°	1269.3	1267.9	1262.3	1252.6	1240.1	1235.9	1217.9	1192.9	1179.0	1163.7	1156.8
5°	1356.7	1349.8	1366.5	1359.5	1362.3	1329.0	1306.8	1288.7	1235.9	1215.1	1181.8
7.5°	1376.2	1383.1	1381.7	1392.9	1404.0	1416.5	1401.2	1374.8	1322.0	1291.5	1255.4
10°	1376.2	1373.4	1384.5	1399.8	1431.7	1459.5	1501.2	1466.5	1426.2	1390.1	1324.8
12.5°	1351.2	1347.0	1358.1	1390.1	1447.0	1504.0	1549.8	1583.1	1526.2	1497.0	1412.3
15°	1274.8	1270.7	1316.5	1373.4	1448.4	1541.4	1637.3	1691.4	1652.5	1606.7	1512.3
17.5°	1180.4	1185.9	1234.5	1329.0	1448.4	1559.5	1681.7	1799.7	1794.2	1735.9	1637.3
20°	1148.4	1152.6	1201.2	1269.3	1405.4	1572.0	1751.1	1917.8	1951.1	1881.7	1752.5
22.5°	1209.5	1205.4	1209.5	1251.2	1376.2	1560.9	1797.0	2052.5	2112.2	2058.0	1903.9
25°	1417.9	1415.1	1380.4	1316.5	1359.5	1535.9	1820.6	2141.4	2278.8	2228.8	2026.1
27.5°	1723.4	1712.3	1658.1	1524.8	1437.3	1551.2	1859.5	2227.5	2424.7	2367.7	2135.8
30°	2051.1	2024.7	1953.9	1787.2	1638.7	1608.1	1881.7	2291.3	2587.1	2514.9	2231.6
32.5°	2277.5	2312.2	2289.9	2120.5	1892.8	1740.0	1917.8	2371.9	2737.1	2689.9	2395.5
35°	2627.4	2667.7	2574.6	2424.7	2195.5	1949.7	1994.2	2437.1	2967.6	2888.5	2548.2
37.5°	3069.0	3099.6	3032.9	2748.2	2506.6	2208.0	2151.1	2573.2	3166.2	3128.7	2744.0
40°	3291.2	3438.4	3344.0	3087.1	2827.4	2569.1	2410.8	2732.9	3512.0	3481.4	3014.8
42.5°	3598.1	3671.7	3623.1	3432.8	3162.0	2955.1	2731.6	3044.0	3931.4	3931.4	3381.5
45°	3923.0	3925.8	3923.0	3767.5	3527.3	3420.3	3164.8	3434.2	4382.7	4432.7	3820.3
47.5°	4189.7	4273.0	4266.1	4173.0	3986.9	3946.7	3598.1	3878.6	4949.3	5036.8	4248.0
50°	4327.2	4420.2	4448.0	4496.6	4488.2	4573.0	4071.6	4393.8	5438.1	5653.4	4797.9
52.5°	4289.7	4296.6	4467.4	4659.1	4964.6	5202.0	4642.4	4978.5	6010.2	6222.7	5222.9
55°	3982.8	3956.4	4307.7	4527.1	5159.0	5586.7	5432.6	5707.5	6456.0	6779.6	5661.7
57.5°	3309.2	3316.2	3641.1	4086.9	5014.6	5739.5	6276.9	6660.2	7080.9	7407.3	6278.3
60°	2284.4	2276.1	2639.9	3155.1	4166.1	5454.8	6762.9	7894.7	7916.9	8379.4	7385.0
62.5°	1284.5	1287.3	1563.7	2003.9	2914.9	4457.7	6739.3	9205.6	9111.2	9516.7	8643.2
65°	727.7	745.7	936.0	1187.3	1745.6	2992.6	5796.4	9727.8	10031.9	10393.0	9407.0
66°	615.2	627.7	790.2	980.4	1392.9	2427.4	5217.3	9626.4	10320.7	10595.7	9391.7
67.5°	476.3	493.0	629.1	777.7	1022.1	1680.3	4199.4	9122.3	10373.5	10534.6	9126.5
70°	326.3	337.5	441.6	590.2	698.5	859.6	2510.8	7542.0	9412.5	9548.6	7932.2
72.5°	229.1	234.7	309.7	447.2	537.4	491.6	1245.7	5365.9	7203.1	7468.4	6169.9
75°	165.3	170.8	212.5	320.8	419.4	322.2	570.8	3427.3	4417.4	4625.7	3716.1
77.5°	119.4	126.4	144.4	206.9	304.1	226.4	280.5	1790.0	2083.0	2046.9	1598.4
80°	72.2	79.2	106.9	133.3	222.2	159.7	154.1	747.1	738.8	701.3	502.7
82.5°	33.3	38.9	56.9	90.3	155.5	111.1	73.6	266.6	233.3	213.9	141.6
85°	9.7	12.5	33.3	68.0	79.2	54.2	44.4	91.7	95.8	81.9	47.2
87.5°	0.0	1.4	15.3	16.7	23.6	18.1	16.7	23.6	44.4	36.1	15.3
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°	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7	1120.7
2.5°	1131.8	1122.1	1098.5	1062.3	1030.4	1013.7	990.1	969.3	958.2	956.8	955.4
5°	1159.6	1133.2	1076.2	1011.0	962.4	909.6	873.5	847.1	822.1	798.5	812.4
7.5°	1197.1	1155.4	1062.3	977.6	872.1	804.1	740.2	702.7	680.5	659.6	656.9
10°	1255.4	1202.6	1052.6	899.9	779.1	679.1	613.8	559.6	529.1	493.0	506.9
12.5°	1334.5	1240.1	1016.5	829.0	673.5	568.0	474.9	387.4	338.8	301.3	302.7
15°	1413.7	1290.1	983.2	742.9	577.7	438.8	302.7	243.0	229.1	220.8	223.6
17.5°	1491.5	1330.4	931.8	655.5	468.0	279.1	220.8	208.3	201.4	193.0	193.0
20°	1585.9	1356.7	867.9	574.9	322.2	206.9	188.9	180.5	169.4	158.3	159.7
22.5°	1677.5	1379.0	794.3	472.2	216.6	179.1	158.3	147.2	137.5	126.4	126.4
25°	1769.2	1385.9	698.5	338.8	175.0	143.0	123.6	108.3	98.6	88.9	90.3
27.5°	1831.7	1342.9	608.2	216.6	140.3	108.3	86.1	73.6	65.3	55.5	55.5
30°	1867.8	1263.7	511.0	152.8	105.5	73.6	51.4	38.9	30.6	23.6	22.2
32.5°	1903.9	1199.8	401.3	116.6	69.4	38.9	19.4	6.9	0.0	0.0	0.0
35°	1976.1	1127.6	269.4	65.3	23.6	1.4	0.0	0.0	0.0	0.0	0.0
37.5°	2021.9	1027.6	123.6	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2137.2	977.6	30.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2324.7	942.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2530.2	929.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2803.8	966.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3092.6	1067.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3409.2	1163.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3685.6	1279.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4193.8	1551.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5106.2	2085.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6133.8	2483.0	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6510.2	2473.3	26.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6443.5	2337.2	26.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6097.7	2076.1	23.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5236.7	1715.0	23.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3992.5	1335.9	22.2	5.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	2409.4	711.0	18.1	6.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	959.6	250.0	13.9	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	259.7	75.0	8.3	5.6	4.2	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	68.0	27.8	6.9	5.6	2.8	1.4	0.0	0.0	0.0	0.0	0.0
85°	26.4	11.1	5.6	4.2	4.2	2.8	1.4	0.0	0.0	0.0	0.0
87.5°	8.3	4.2	4.2	2.8	2.8	1.4	1.4	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)