

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: P481822

Luminaire Tested: **IFLD-S-SA3A-830-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481822
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

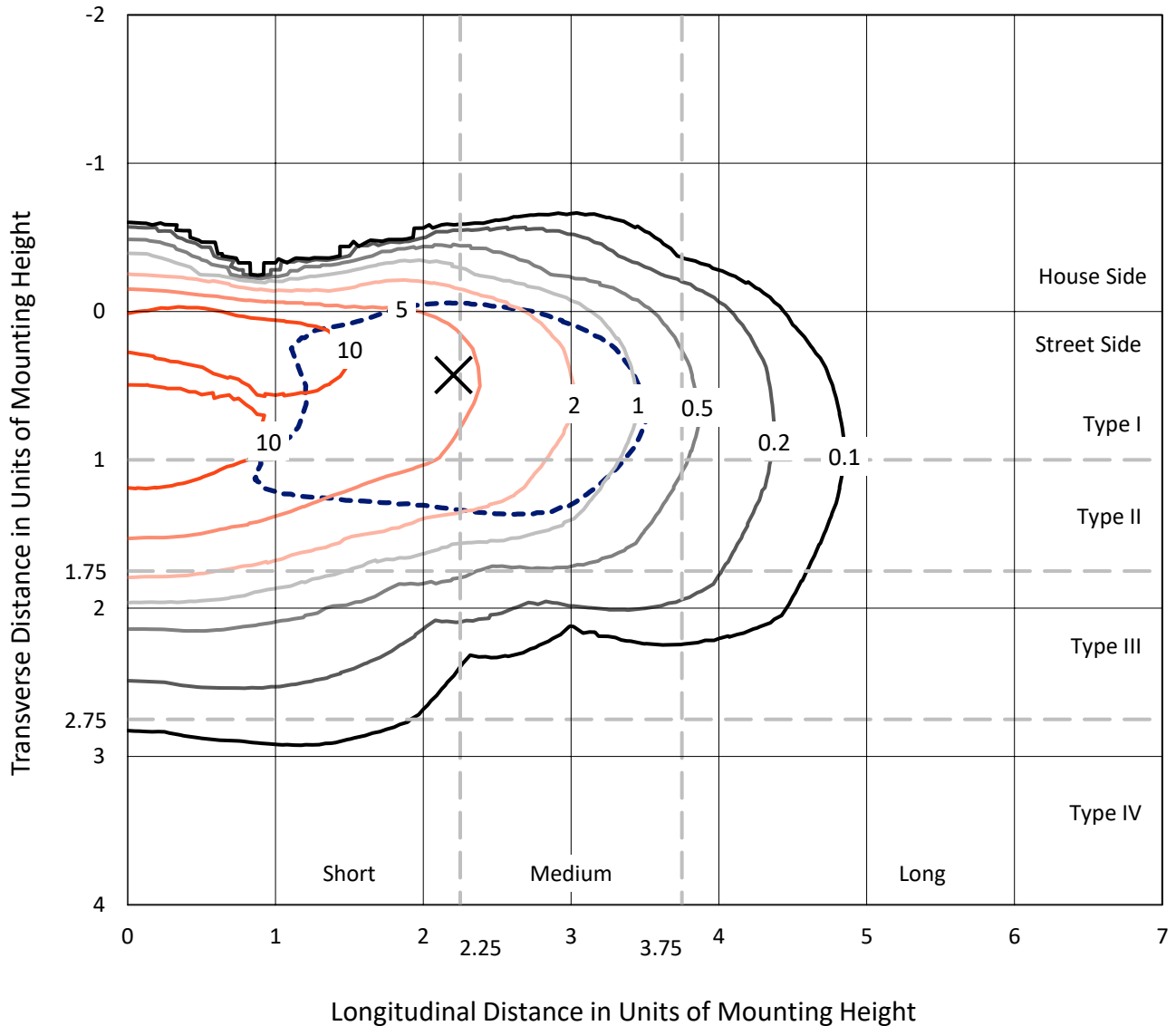
Lumens per Lamp: N/A
Luminaire Lumens: 7872.9 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

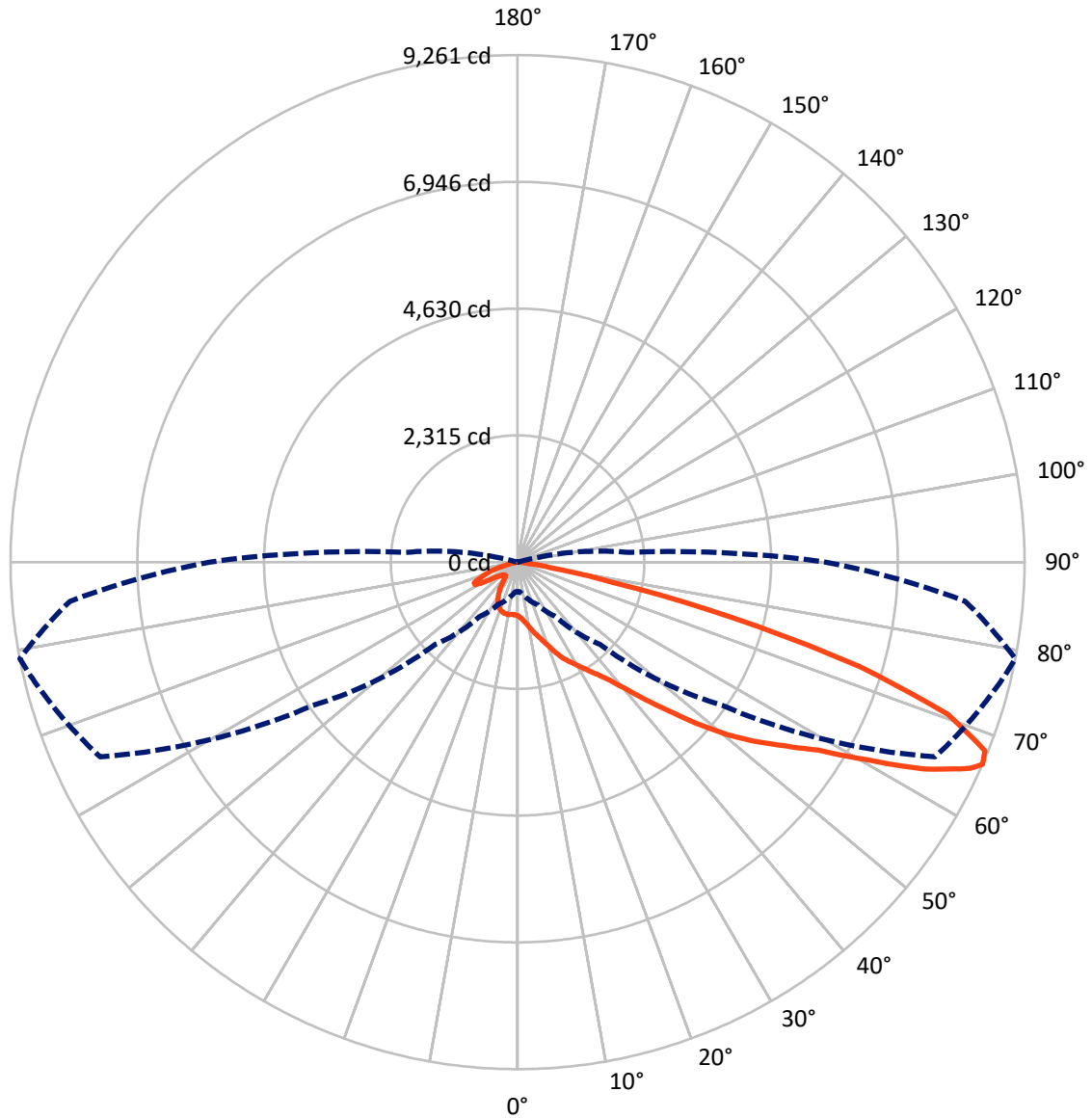
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 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	591.1	0.0	591.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	7281.8	0.0	7281.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	7872.9	0.0	7872.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	1.2
10°-20°	254.9	3.2
20°-30°	423.5	5.4
30°-40°	727.4	9.2
40°-50°	1317.8	16.7
50°-60°	2083.1	26.5
60°-70°	2119.7	26.9
70°-80°	808.4	10.3
80°-90°	45.3	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°	7872.9	100.0
0°-180°	7872.9	100.0

Coefficient of Utilization



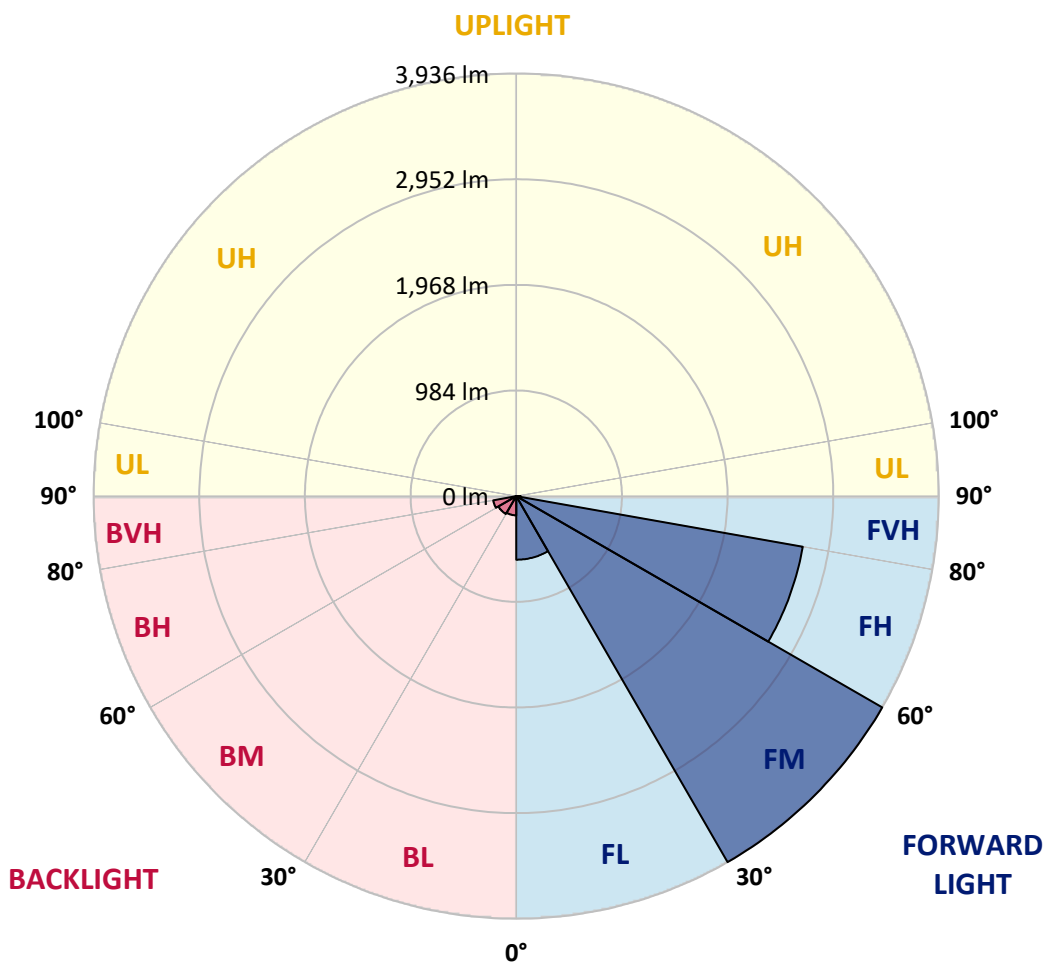
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	592.3	7.5			
FM (30°-60°)	3936.3	50.0			
FH (60°-80°)	2710.2	34.4			G2/5000
FVH (80°-90°)	43.0	0.5			G1/100
BL (0°-30°)	178.8	2.3	B1/500		
BM (30°-60°)	192.1	2.4	B0/220		
BH (60°-80°)	217.9	2.8	B1/500		G1/500
BVH (80°-90°)	2.3	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°	979.5	979.5	979.5	979.5	979.5	979.5	979.5	979.5	979.5	979.5	979.5
2.5°	1109.4	1108.1	1103.3	1094.8	1083.9	1080.2	1064.4	1042.6	1030.5	1017.1	1011.0
5°	1185.8	1179.8	1194.3	1188.2	1190.7	1161.5	1142.1	1126.3	1080.2	1062.0	1032.9
7.5°	1202.8	1208.9	1207.7	1217.4	1227.1	1238.0	1224.7	1201.6	1155.5	1128.8	1097.2
10°	1202.8	1200.4	1210.1	1223.4	1251.4	1275.6	1312.1	1281.7	1246.5	1215.0	1157.9
12.5°	1181.0	1177.3	1187.0	1215.0	1264.7	1314.5	1354.5	1383.7	1333.9	1308.4	1234.4
15°	1114.2	1110.6	1150.6	1200.4	1265.9	1347.2	1431.0	1478.3	1444.3	1404.3	1321.8
17.5°	1031.7	1036.5	1079.0	1161.5	1265.9	1363.0	1469.8	1573.0	1568.1	1517.2	1431.0
20°	1003.8	1007.4	1049.9	1109.4	1228.3	1374.0	1530.5	1676.2	1705.3	1644.6	1531.7
22.5°	1057.2	1053.5	1057.2	1093.6	1202.8	1364.2	1570.6	1793.9	1846.1	1798.8	1664.0
25°	1239.2	1236.8	1206.5	1150.6	1188.2	1342.4	1591.2	1871.6	1991.7	1948.1	1770.8
27.5°	1506.2	1496.5	1449.2	1332.7	1256.2	1355.7	1625.2	1946.8	2119.2	2069.4	1866.7
30°	1792.7	1769.6	1707.7	1562.1	1432.2	1405.5	1644.6	2002.7	2261.2	2198.1	1950.5
32.5°	1990.5	2020.9	2001.5	1853.4	1654.3	1520.8	1676.2	2073.1	2392.3	2351.0	2093.7
35°	2296.4	2331.6	2250.3	2119.2	1918.9	1704.1	1742.9	2130.1	2593.8	2524.6	2227.2
37.5°	2682.4	2709.1	2650.8	2402.0	2190.8	1929.8	1880.1	2249.1	2767.3	2734.6	2398.3
40°	2876.6	3005.2	2922.7	2698.1	2471.2	2245.4	2107.0	2388.6	3069.5	3042.8	2635.0
42.5°	3144.8	3209.1	3166.6	3000.4	2763.7	2582.8	2387.4	2660.5	3436.1	3436.1	2955.5
45°	3428.8	3431.2	3428.8	3292.9	3082.9	2989.4	2766.1	3001.6	3830.6	3874.3	3339.0
47.5°	3661.8	3734.7	3728.6	3647.3	3484.6	3449.4	3144.8	3390.0	4325.8	4402.2	3712.8
50°	3782.0	3863.3	3887.6	3930.1	3922.8	3996.8	3558.7	3840.3	4753.0	4941.1	4193.5
52.5°	3749.2	3755.3	3904.6	4072.1	4339.1	4546.7	4057.5	4351.3	5253.1	5438.8	4564.9
55°	3481.0	3457.9	3765.0	3956.8	4509.0	4882.9	4748.1	4988.5	5642.7	5925.5	4948.4
57.5°	2892.3	2898.4	3182.4	3572.0	4382.8	5016.4	5486.1	5821.1	6188.9	6474.1	5487.3
60°	1996.6	1989.3	2307.3	2757.6	3641.2	4767.6	5910.9	6900.1	6919.5	7323.7	6454.7
62.5°	1122.7	1125.1	1366.7	1751.4	2547.6	3896.1	5890.3	8045.9	7963.3	8317.7	7554.3
65°	636.0	651.8	818.1	1037.7	1525.7	2615.6	5066.1	8502.2	8768.0	9083.6	8221.9
66°	537.7	548.6	690.6	856.9	1217.4	2121.6	4560.0	8413.6	9020.5	9260.8	8208.5
67.5°	416.3	430.9	549.8	679.7	893.3	1468.6	3670.3	7973.0	9066.6	9207.4	7976.7
70°	285.2	294.9	386.0	515.8	610.5	751.3	2194.4	6591.8	8226.7	8345.7	6932.9
72.5°	200.3	205.1	270.7	390.8	469.7	429.7	1088.7	4689.9	6295.7	6527.5	5392.6
75°	144.4	149.3	185.7	280.4	366.5	281.6	498.8	2995.5	3860.9	4043.0	3248.0
77.5°	104.4	110.5	126.2	180.8	265.8	197.8	245.2	1564.5	1820.6	1789.1	1397.0
80°	63.1	69.2	93.5	116.5	194.2	139.6	134.7	653.0	645.7	612.9	439.4
82.5°	29.1	34.0	49.8	78.9	135.9	97.1	64.3	233.0	203.9	186.9	123.8
85°	8.5	10.9	29.1	59.5	69.2	47.3	38.8	80.1	83.7	71.6	41.3
87.5°	0.0	1.2	13.4	14.6	20.6	15.8	14.6	20.6	38.8	31.6	13.4
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°	979.5	979.5	979.5	979.5	979.5	979.5	979.5	979.5	979.5	979.5	979.5
2.5°	989.2	980.7	960.1	928.5	900.6	886.0	865.4	847.2	837.5	836.3	835.1
5°	1013.5	990.4	940.6	883.6	841.1	795.0	763.4	740.4	718.5	697.9	710.0
7.5°	1046.2	1009.8	928.5	854.5	762.2	702.8	646.9	614.2	594.7	576.5	574.1
10°	1097.2	1051.1	920.0	786.5	680.9	593.5	536.5	489.1	462.4	430.9	443.0
12.5°	1166.4	1083.9	888.5	724.6	588.7	496.4	415.1	338.6	296.2	263.4	264.6
15°	1235.6	1127.6	859.3	649.4	504.9	383.5	264.6	212.4	200.3	193.0	195.4
17.5°	1303.6	1162.8	814.4	572.9	409.0	244.0	193.0	182.1	176.0	168.7	168.7
20°	1386.1	1185.8	758.6	502.5	281.6	180.8	165.1	157.8	148.1	138.4	139.6
22.5°	1466.2	1205.2	694.3	412.7	189.3	156.6	138.4	128.7	120.2	110.5	110.5
25°	1546.3	1211.3	610.5	296.2	152.9	125.0	108.0	94.7	86.2	77.7	78.9
27.5°	1600.9	1173.7	531.6	189.3	122.6	94.7	75.3	64.3	57.0	48.5	48.5
30°	1632.5	1104.5	446.7	133.5	92.2	64.3	44.9	34.0	26.7	20.6	19.4
32.5°	1664.0	1048.7	350.8	102.0	60.7	34.0	17.0	6.1	0.0	0.0	0.0
35°	1727.1	985.6	235.5	57.0	20.6	1.2	0.0	0.0	0.0	0.0	0.0
37.5°	1767.2	898.2	108.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1867.9	854.5	26.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2031.8	824.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2211.4	812.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2450.5	844.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2703.0	933.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2979.7	1017.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3221.3	1117.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3665.5	1355.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4462.9	1823.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5361.1	2170.2	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5690.0	2161.7	23.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5631.7	2042.7	23.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5329.5	1814.5	20.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4577.0	1499.0	20.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3489.5	1167.6	19.4	4.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	2105.8	621.4	15.8	6.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	838.7	218.5	12.1	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	227.0	65.5	7.3	4.9	3.6	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	59.5	24.3	6.1	4.9	2.4	1.2	0.0	0.0	0.0	0.0	0.0
85°	23.1	9.7	4.9	3.6	3.6	2.4	1.2	0.0	0.0	0.0	0.0
87.5°	7.3	3.6	3.6	2.4	2.4	1.2	1.2	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)