

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: P482792

Luminaire Tested: **IFLD-S-SA2A-735-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482792
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-735-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

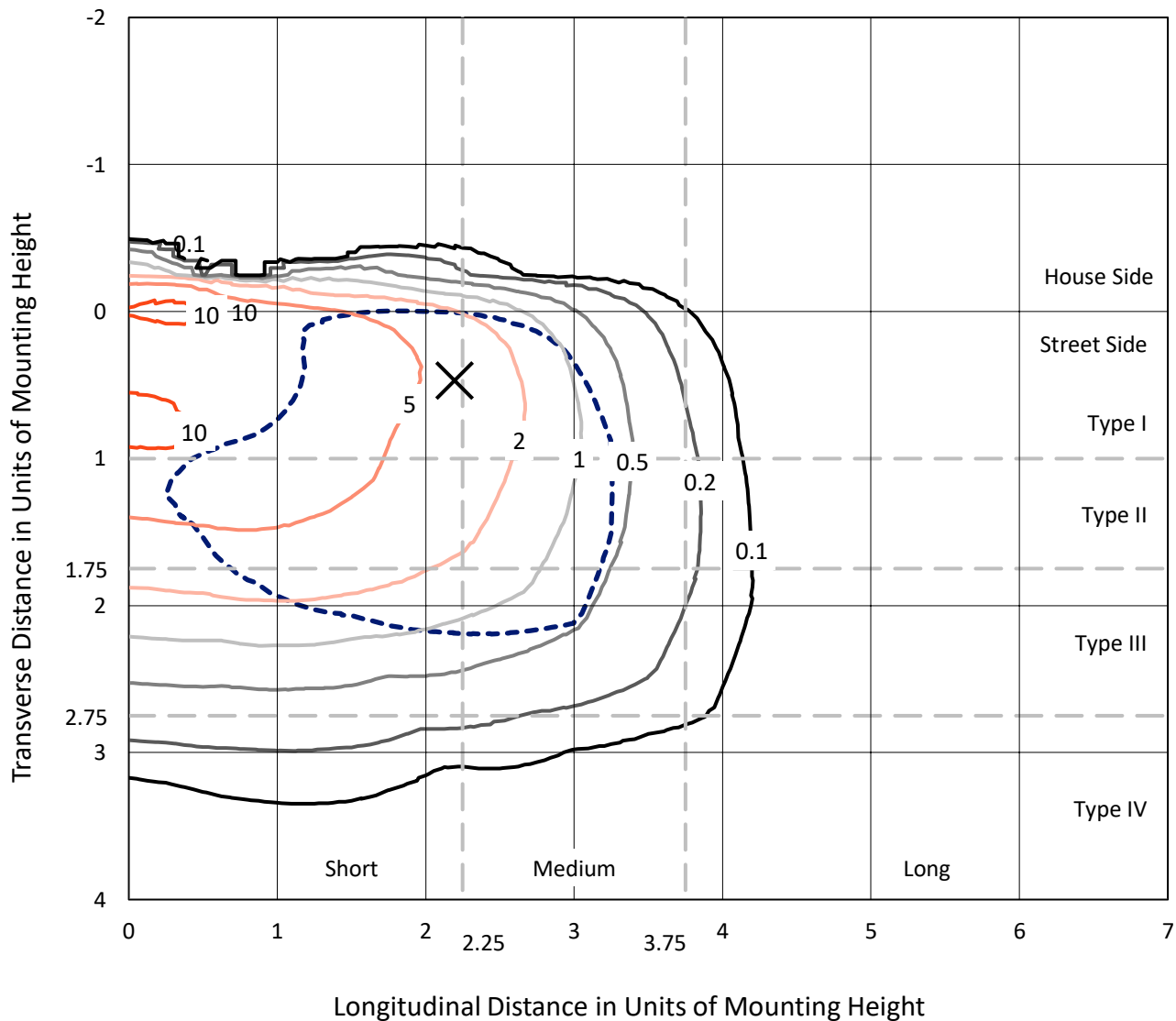
Lumens per Lamp: N/A
Luminaire Lumens: 6527.2 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

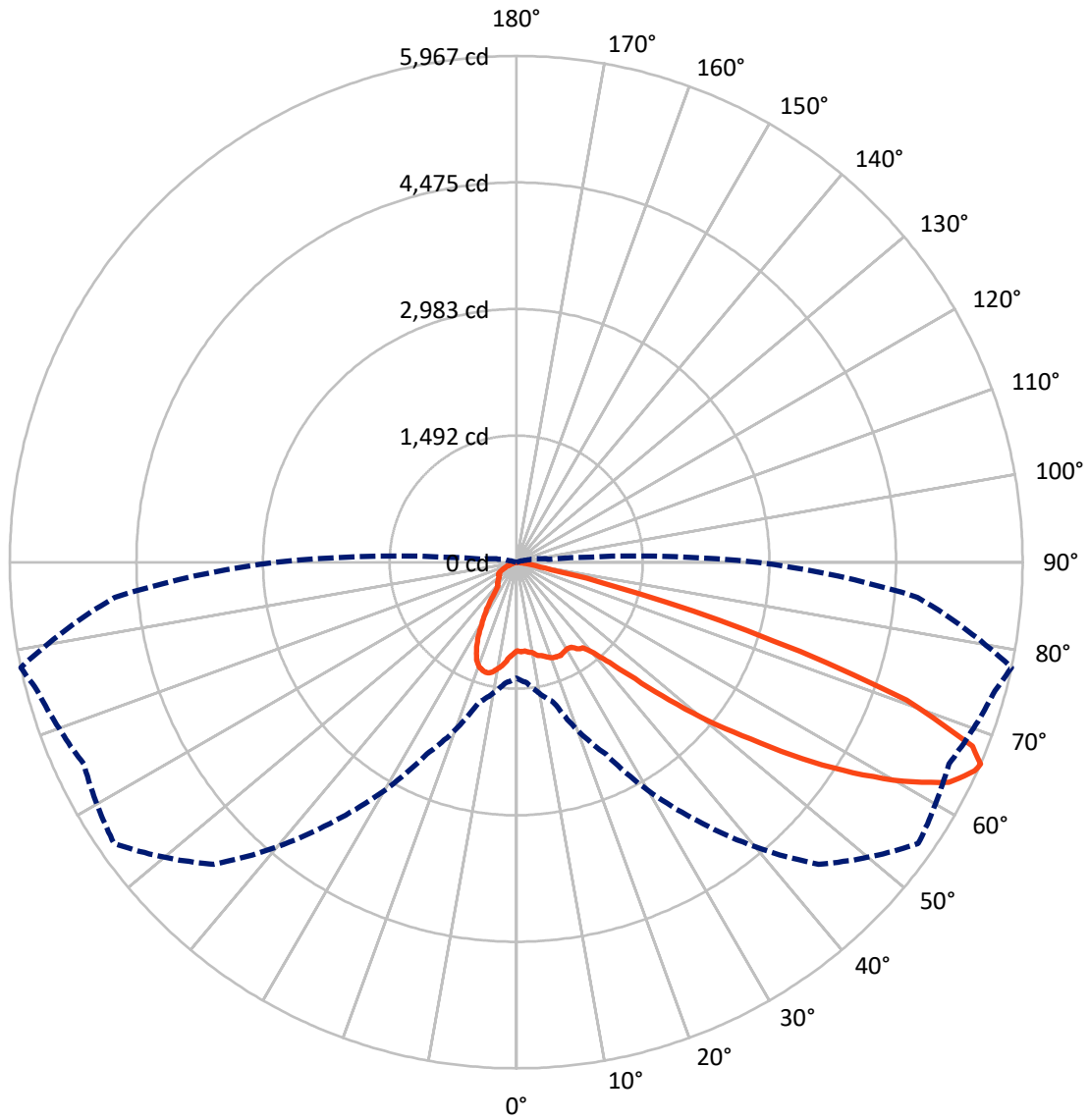
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	458.9	0.0	458.9
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	6068.3	0.0	6068.3
	% Fixture	93.0	0.0	93.0
Total	Lumens	6527.2	0.0	6527.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	1.5
10°-20°	215.9	3.3
20°-30°	308.6	4.7
30°-40°	528.2	8.1
40°-50°	953.4	14.6
50°-60°	1630.4	25.0
60°-70°	2006.7	30.7
70°-80°	758.7	11.6
80°-90°	29.6	0.5
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°	6527.2	100.0
0°-180°	6527.2	100.0

Coefficient of Utilization

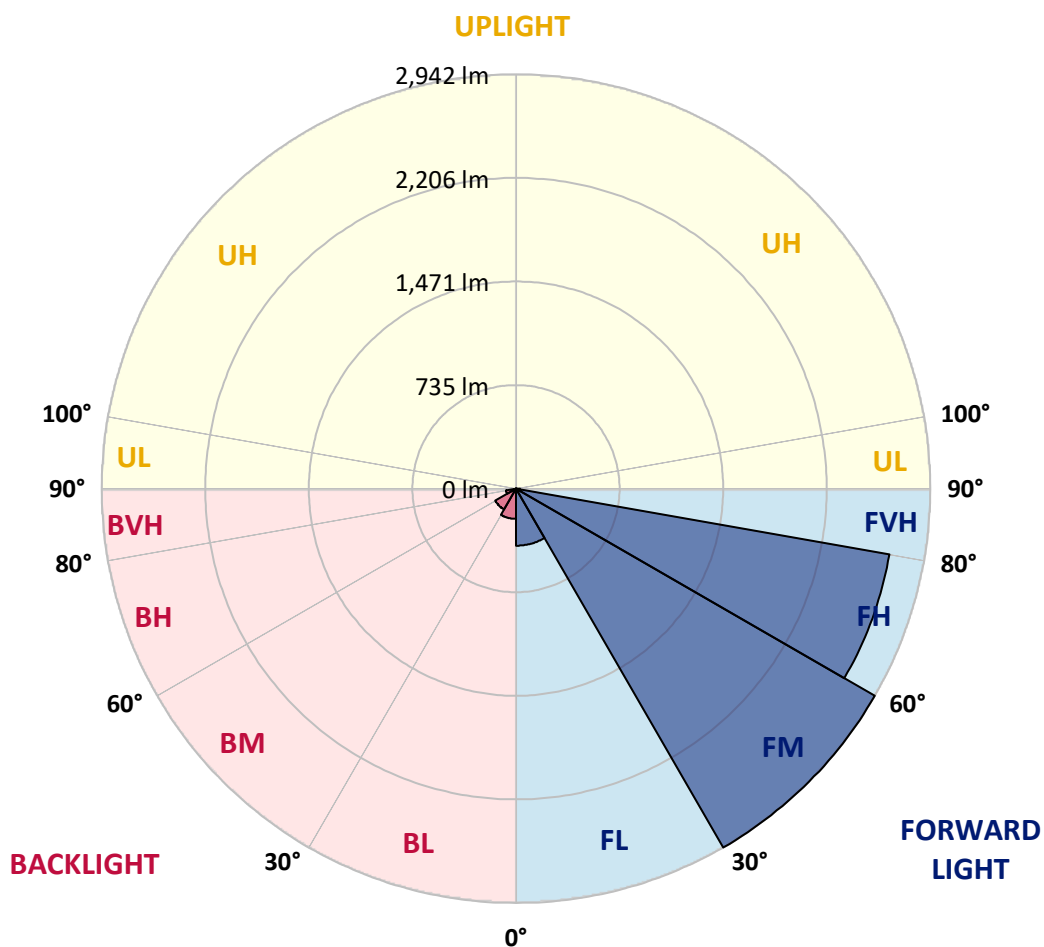


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	405.2	6.2			
FM (30°-60°)	2941.9	45.1			
FH (60°-80°)	2692.7	41.3			G2/5000
FVH (80°-90°)	28.4	0.4			G1/100
BL (0°-30°)	214.9	3.3	B1/500		
BM (30°-60°)	170.1	2.6	B0/220		
BH (60°-80°)	72.7	1.1	B0/110		G0/110
BVH (80°-90°)	1.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4
2.5°	961.6	952.7	961.6	974.4	981.3	987.3	1008.0	1025.7	1044.5	1057.3	1053.3
5°	891.6	908.3	910.3	914.3	925.1	960.6	972.5	1003.0	1049.4	1053.3	1071.1
7.5°	836.4	831.4	844.2	869.9	897.5	918.2	952.7	1006.0	1054.3	1071.1	1105.6
10°	756.5	766.3	780.1	805.8	839.3	890.6	951.7	1010.9	1080.0	1085.9	1150.0
12.5°	713.1	703.2	724.9	751.5	808.7	856.1	931.0	1002.0	1095.7	1128.3	1202.3
15°	677.6	682.5	703.2	721.0	768.3	828.5	916.2	1023.7	1122.4	1145.1	1257.5
17.5°	662.8	659.8	675.6	693.3	751.5	819.6	910.3	1024.7	1146.0	1175.6	1295.0
20°	669.7	675.6	670.7	687.4	723.9	793.0	919.2	1043.5	1163.8	1204.2	1335.4
22.5°	778.2	770.3	730.8	699.3	701.2	782.1	912.3	1055.3	1179.6	1212.1	1363.0
25°	1061.2	1018.8	921.2	799.9	720.0	752.5	904.4	1051.4	1176.6	1217.1	1379.8
27.5°	1346.3	1309.8	1214.1	1025.7	795.9	740.7	876.8	1054.3	1161.8	1199.3	1352.2
30°	1647.1	1666.8	1524.8	1300.9	995.1	805.8	859.0	1038.5	1152.0	1183.5	1358.1
32.5°	1955.8	1947.9	1862.1	1619.4	1280.2	949.8	887.6	1054.3	1164.8	1195.4	1392.6
35°	2197.4	2169.8	2083.0	1864.0	1515.9	1166.8	986.3	1129.3	1221.0	1257.5	1441.9
37.5°	2316.7	2328.6	2278.3	2087.9	1774.3	1367.9	1109.5	1129.3	1238.7	1281.2	1521.8
40°	2409.4	2444.9	2426.2	2365.1	2030.7	1594.8	1245.7	1199.3	1328.5	1408.4	1671.7
42.5°	2520.9	2504.1	2614.6	2558.4	2366.0	1880.8	1484.3	1366.0	1540.5	1617.5	1896.6
45°	2580.1	2644.2	2728.0	2800.0	2676.7	2237.8	1796.0	1660.9	1865.0	1962.7	2230.9
47.5°	2732.0	2757.6	2893.7	2984.4	2929.2	2646.1	2269.4	2091.9	2273.3	2427.2	2613.6
50°	2820.7	2786.2	2976.5	3114.6	3146.2	2984.4	2693.5	2555.4	2758.6	2954.8	2971.6
52.5°	2742.8	2841.4	3031.8	3279.3	3367.1	3286.2	3191.6	3131.4	3274.4	3455.9	3375.0
55°	2469.6	2536.7	3000.2	3459.8	3742.9	3705.4	3793.2	3753.7	3897.7	4090.0	3846.4
57.5°	2249.7	2333.5	2740.8	3553.5	4093.0	4203.5	4313.9	4289.3	4462.8	4684.8	4245.9
60°	2112.6	2160.9	2553.4	3529.8	4300.1	4718.3	4967.8	4794.2	5077.3	5246.9	4558.5
62.5°	1874.9	1905.5	2280.2	3216.2	4362.2	5082.2	5505.3	5269.6	5515.2	5722.3	4783.4
65°	1503.1	1585.9	1895.6	2746.7	3952.0	5149.3	5840.7	5563.5	5801.2	5937.3	4851.4
66°	1367.9	1428.1	1712.2	2498.2	3718.2	5037.8	5784.4	5624.7	5842.6	5966.9	4746.9
67.5°	1135.2	1187.5	1413.3	2144.1	3239.9	4792.3	5823.9	5583.2	5874.2	5798.2	4606.8
70°	751.5	785.1	966.5	1449.8	2256.6	3920.4	5401.8	5259.7	5164.1	4879.1	3601.8
72.5°	351.1	399.4	603.6	878.8	1323.6	2742.8	4404.7	4214.3	3621.6	3165.9	2272.4
75°	158.8	180.5	331.4	504.0	593.7	1421.2	2841.4	2566.3	1802.9	1497.1	995.1
77.5°	85.8	97.6	161.7	239.7	216.0	498.1	1406.4	1169.7	568.1	416.2	289.0
80°	66.1	77.9	135.1	137.1	79.9	129.2	522.7	362.0	142.0	107.5	69.0
82.5°	34.5	49.3	106.5	88.8	40.4	52.3	161.7	100.6	44.4	35.5	29.6
85°	13.8	21.7	60.2	59.2	23.7	17.8	45.4	30.6	17.8	14.8	13.8
87.5°	1.0	1.0	32.5	22.7	14.8	4.9	6.9	6.9	8.9	7.9	9.9
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°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4
2.5°	1071.1	1082.9	1084.9	1117.4	1124.3	1117.4	1135.2	1132.2	1140.1	1134.2	1123.4
5°	1095.7	1112.5	1145.1	1169.7	1169.7	1150.0	1134.2	1113.5	1082.9	1075.0	1069.1
7.5°	1138.1	1191.4	1221.0	1205.2	1173.7	1099.7	997.1	922.2	859.0	835.4	824.5
10°	1213.1	1242.7	1277.2	1213.1	1081.9	925.1	752.5	639.1	550.3	530.6	515.8
12.5°	1261.4	1308.8	1328.5	1169.7	912.3	678.6	491.2	362.9	300.8	253.5	245.6
15°	1324.6	1378.8	1338.4	1052.3	719.0	444.8	254.5	158.8	129.2	121.3	121.3
17.5°	1367.9	1427.1	1297.9	906.4	509.9	236.7	126.2	109.5	107.5	108.5	106.5
20°	1443.9	1479.4	1236.8	736.7	304.8	121.3	101.6	97.6	95.7	98.6	96.7
22.5°	1472.5	1505.0	1137.2	533.6	137.1	80.9	75.9	73.0	75.0	74.0	73.0
25°	1470.5	1487.3	973.4	305.7	40.4	31.6	28.6	28.6	26.6	27.6	26.6
27.5°	1485.3	1443.9	790.0	90.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	1493.2	1373.9	562.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1497.1	1337.4	362.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1527.7	1264.4	154.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1548.4	1170.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1634.2	1141.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1745.7	1085.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1900.5	1004.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2105.7	955.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2258.5	879.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2452.8	834.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2683.6	836.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2893.7	822.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3001.2	703.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2978.5	569.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	2899.6	446.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	2845.4	395.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2680.7	316.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2133.3	217.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1357.1	133.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	625.3	61.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	196.3	37.5	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	51.3	23.7	7.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.6	16.8	6.9	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.8	6.9	3.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.8	3.9	2.0	2.0	1.0	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)