

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: P482953

Luminaire Tested: **IFLD-S-SA3A-827-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482953
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-827-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

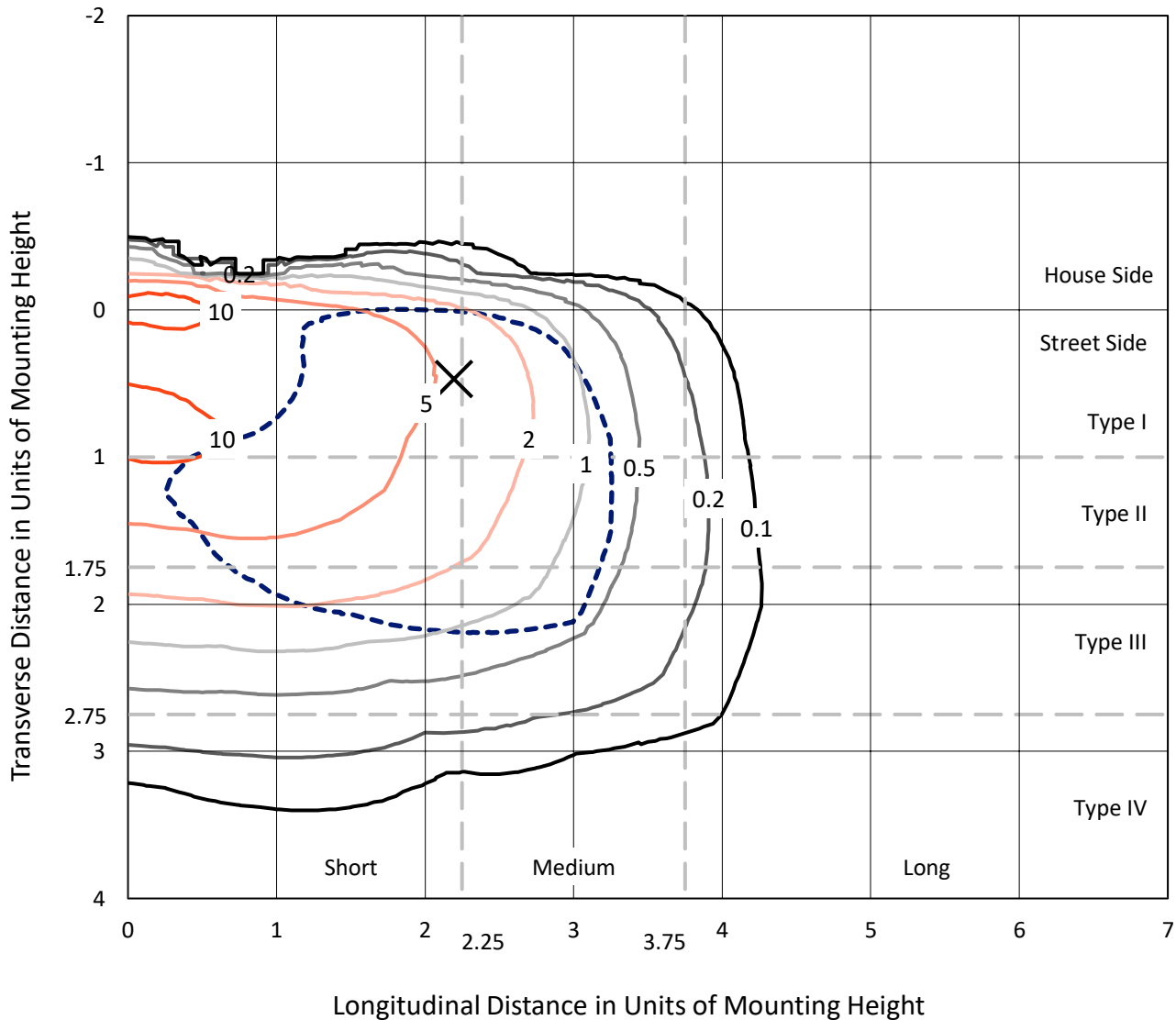
Lumens per Lamp: N/A
Luminaire Lumens: 7249.8 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (A_{in}): 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

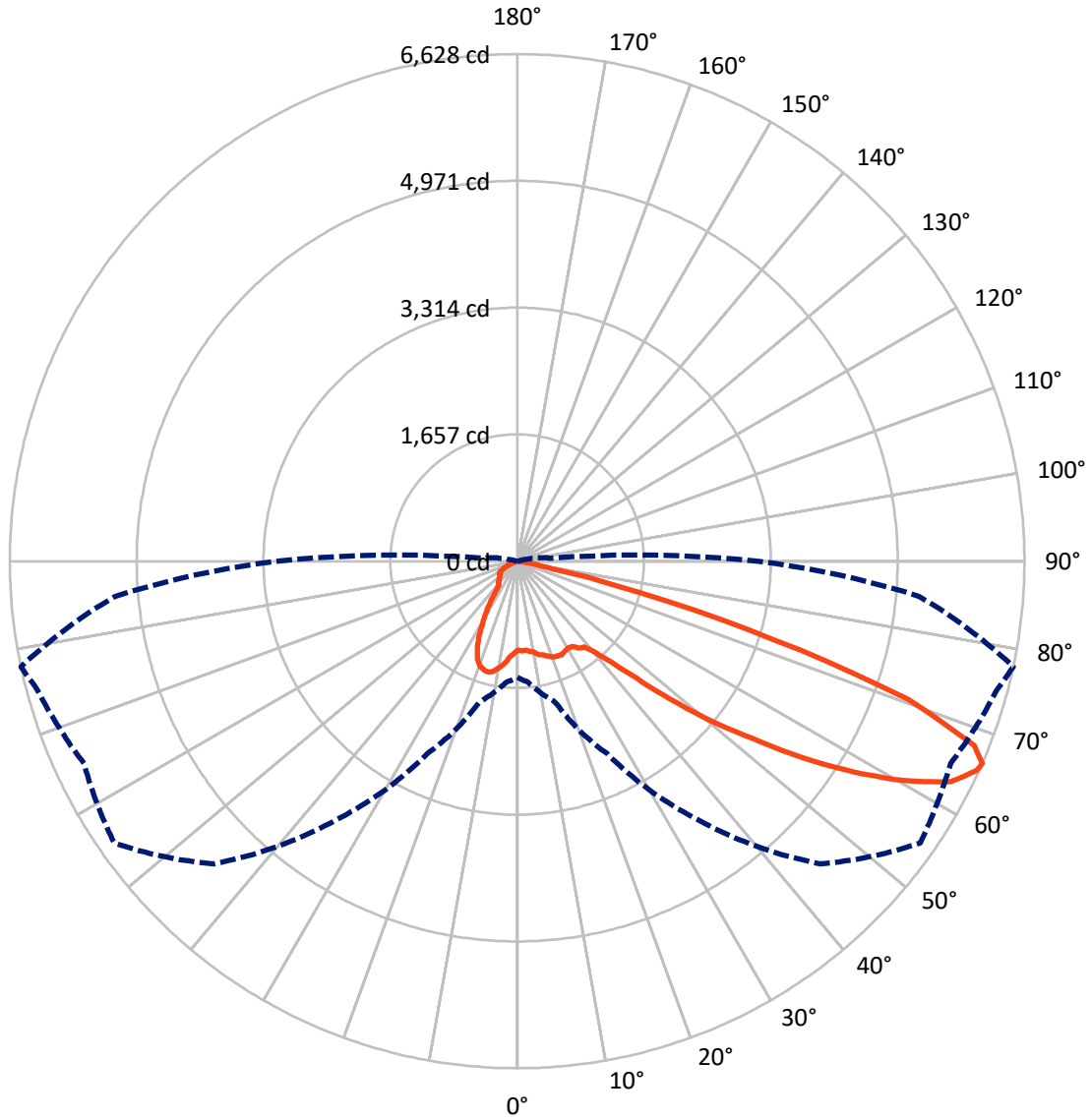
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 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	509.7	0.0	509.7
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	6740.1	0.0	6740.1
	% Fixture	93.0	0.0	93.0
Total	Lumens	7249.8	0.0	7249.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	1.5
10°-20°	239.8	3.3
20°-30°	342.8	4.7
30°-40°	586.7	8.1
40°-50°	1058.9	14.6
50°-60°	1810.9	25.0
60°-70°	2228.9	30.7
70°-80°	842.7	11.6
80°-90°	32.9	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°	7249.8	100.0
0°-180°	7249.8	100.0

Coefficient of Utilization

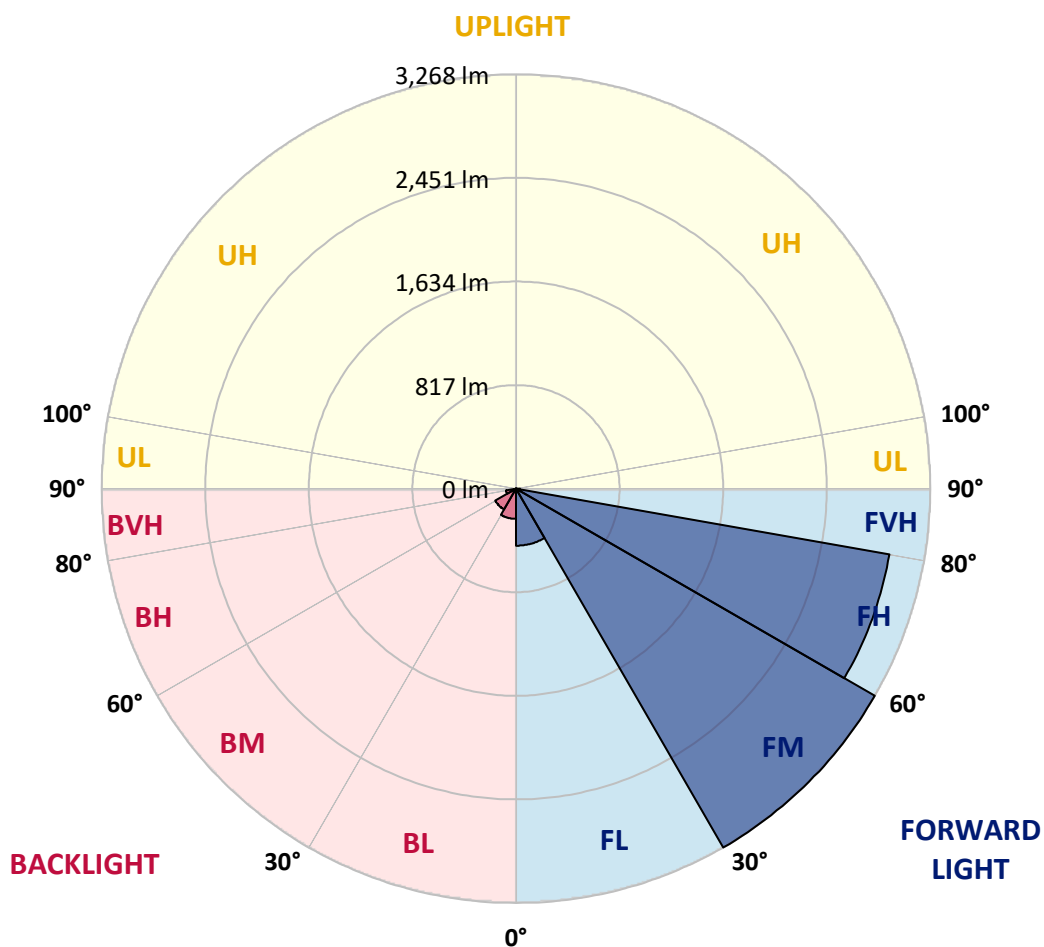


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.1	6.2			
FM (30°-60°)	3267.6	45.1			
FH (60°-80°)	2990.8	41.3			G2/5000
FVH (80°-90°)	31.6	0.4			G1/100
BL (0°-30°)	238.7	3.3	B1/500		
BM (30°-60°)	188.9	2.6	B0/220		
BH (60°-80°)	80.8	1.1	B0/110		G0/110
BVH (80°-90°)	1.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2
2.5°	1068.1	1058.2	1068.1	1082.3	1090.0	1096.6	1119.6	1139.3	1160.1	1174.3	1170.0
5°	990.3	1008.9	1011.1	1015.5	1027.5	1067.0	1080.1	1114.1	1165.6	1170.0	1189.7
7.5°	929.0	923.5	937.7	966.2	996.9	1019.9	1058.2	1117.4	1171.0	1189.7	1228.0
10°	840.2	851.2	866.5	895.0	932.2	989.2	1057.1	1122.8	1199.5	1206.1	1277.3
12.5°	792.0	781.1	805.2	834.7	898.3	950.9	1034.1	1113.0	1217.1	1253.2	1335.4
15°	752.6	758.1	781.1	800.8	853.4	920.2	1017.7	1137.1	1246.6	1271.8	1396.7
17.5°	736.1	732.9	750.4	770.1	834.7	910.3	1011.1	1138.2	1272.9	1305.8	1438.3
20°	743.8	750.4	744.9	763.5	804.1	880.8	1021.0	1159.0	1292.6	1337.6	1483.3
22.5°	864.3	855.6	811.7	776.7	778.9	868.7	1013.3	1172.1	1310.2	1346.3	1513.9
25°	1178.7	1131.6	1023.2	888.4	799.7	835.8	1004.5	1167.8	1306.9	1351.8	1532.5
27.5°	1495.3	1454.8	1348.5	1139.3	884.0	822.7	973.9	1171.0	1290.5	1332.1	1501.9
30°	1829.4	1851.3	1693.6	1444.9	1105.3	895.0	954.1	1153.5	1279.5	1314.6	1508.4
32.5°	2172.3	2163.5	2068.2	1798.7	1421.9	1054.9	985.9	1171.0	1293.7	1327.7	1546.8
35°	2440.7	2410.0	2313.6	2070.4	1683.7	1295.9	1095.5	1254.3	1356.2	1396.7	1601.6
37.5°	2573.2	2586.4	2530.5	2319.1	1970.7	1519.4	1232.4	1254.3	1375.9	1423.0	1690.3
40°	2676.2	2715.6	2694.8	2626.9	2255.6	1771.4	1383.6	1332.1	1475.6	1564.3	1856.8
42.5°	2800.0	2781.4	2904.1	2841.6	2628.0	2089.0	1648.7	1517.2	1711.1	1796.6	2106.6
45°	2865.7	2936.9	3030.0	3110.0	2973.1	2485.6	1994.8	1844.8	2071.5	2180.0	2477.9
47.5°	3034.4	3062.9	3214.1	3314.9	3253.5	2939.1	2520.7	2323.5	2525.0	2695.9	2903.0
50°	3133.0	3094.7	3306.1	3459.5	3494.5	3314.9	2991.7	2838.3	3064.0	3282.0	3300.6
52.5°	3046.5	3156.0	3367.4	3642.4	3739.9	3650.1	3544.9	3478.1	3636.9	3838.5	3748.7
55°	2743.0	2817.5	3332.4	3842.9	4157.3	4115.6	4213.1	4169.3	4329.3	4542.9	4272.3
57.5°	2498.7	2591.9	3044.3	3946.9	4546.2	4668.9	4791.5	4764.2	4957.0	5203.4	4716.0
60°	2346.5	2400.2	2836.1	3920.7	4776.2	5240.7	5517.8	5325.0	5639.4	5827.8	5063.2
62.5°	2082.5	2116.4	2532.7	3572.3	4845.2	5644.9	6114.9	5853.0	6125.8	6355.9	5313.0
65°	1669.5	1761.5	2105.5	3050.9	4389.5	5719.4	6487.3	6179.5	6443.5	6594.7	5388.6
66°	1519.4	1586.2	1901.7	2774.8	4129.9	5595.6	6424.9	6247.4	6489.5	6627.5	5272.5
67.5°	1260.9	1318.9	1569.8	2381.5	3598.6	5322.8	6468.7	6201.4	6524.6	6440.2	5116.9
70°	834.7	872.0	1073.6	1610.3	2506.4	4354.5	5999.8	5842.1	5735.8	5419.2	4000.6
72.5°	390.0	443.7	670.4	976.1	1470.1	3046.5	4892.3	4680.9	4022.5	3516.4	2523.9
75°	176.4	200.5	368.1	559.8	659.5	1578.6	3156.0	2850.4	2002.5	1662.9	1105.3
77.5°	95.3	108.5	179.7	266.2	239.9	553.2	1562.1	1299.2	631.0	462.3	321.0
80°	73.4	86.5	150.1	152.3	88.7	143.5	580.6	402.0	157.7	119.4	76.7
82.5°	38.3	54.8	118.3	98.6	44.9	58.1	179.7	111.7	49.3	39.4	32.9
85°	15.3	24.1	66.8	65.7	26.3	19.7	50.4	34.0	19.7	16.4	15.3
87.5°	1.1	1.1	36.2	25.2	16.4	5.5	7.7	7.7	9.9	8.8	11.0
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°	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2	1161.2
2.5°	1189.7	1202.8	1205.0	1241.2	1248.8	1241.2	1260.9	1257.6	1266.4	1259.8	1247.7
5°	1217.1	1235.7	1271.8	1299.2	1299.2	1277.3	1259.8	1236.8	1202.8	1194.1	1187.5
7.5°	1264.2	1323.3	1356.2	1338.7	1303.6	1221.4	1107.5	1024.3	954.1	927.9	915.8
10°	1347.4	1380.3	1418.6	1347.4	1201.7	1027.5	835.8	709.9	611.3	589.4	572.9
12.5°	1401.1	1453.7	1475.6	1299.2	1013.3	753.7	545.5	403.1	334.1	281.5	272.8
15°	1471.2	1531.5	1486.5	1168.9	798.6	494.1	282.6	176.4	143.5	134.7	134.7
17.5°	1519.4	1585.1	1441.6	1006.7	566.4	262.9	140.2	121.6	119.4	120.5	118.3
20°	1603.8	1643.2	1373.7	818.3	338.5	134.7	112.8	108.5	106.3	109.5	107.4
22.5°	1635.5	1671.7	1263.1	592.6	152.3	89.8	84.4	81.1	83.3	82.2	81.1
25°	1633.3	1652.0	1081.2	339.6	44.9	35.1	31.8	31.8	29.6	30.7	29.6
27.5°	1649.8	1603.8	877.5	100.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	1658.5	1526.0	624.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1662.9	1485.4	402.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1696.9	1404.4	172.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1719.9	1300.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1815.2	1267.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1939.0	1206.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2111.0	1115.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2338.8	1061.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2508.6	977.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2724.4	926.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2980.7	929.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3214.1	913.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3333.5	781.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3308.3	632.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3220.7	496.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	3160.4	439.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2977.5	351.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2369.5	241.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1507.4	147.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	694.5	67.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	218.0	41.6	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	57.0	26.3	8.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.6	18.6	7.7	3.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.6	7.7	3.3	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.4	4.4	2.2	2.2	1.1	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)