

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: P482754

Luminaire Tested: **IFLD-S-SA2B-730-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482754
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

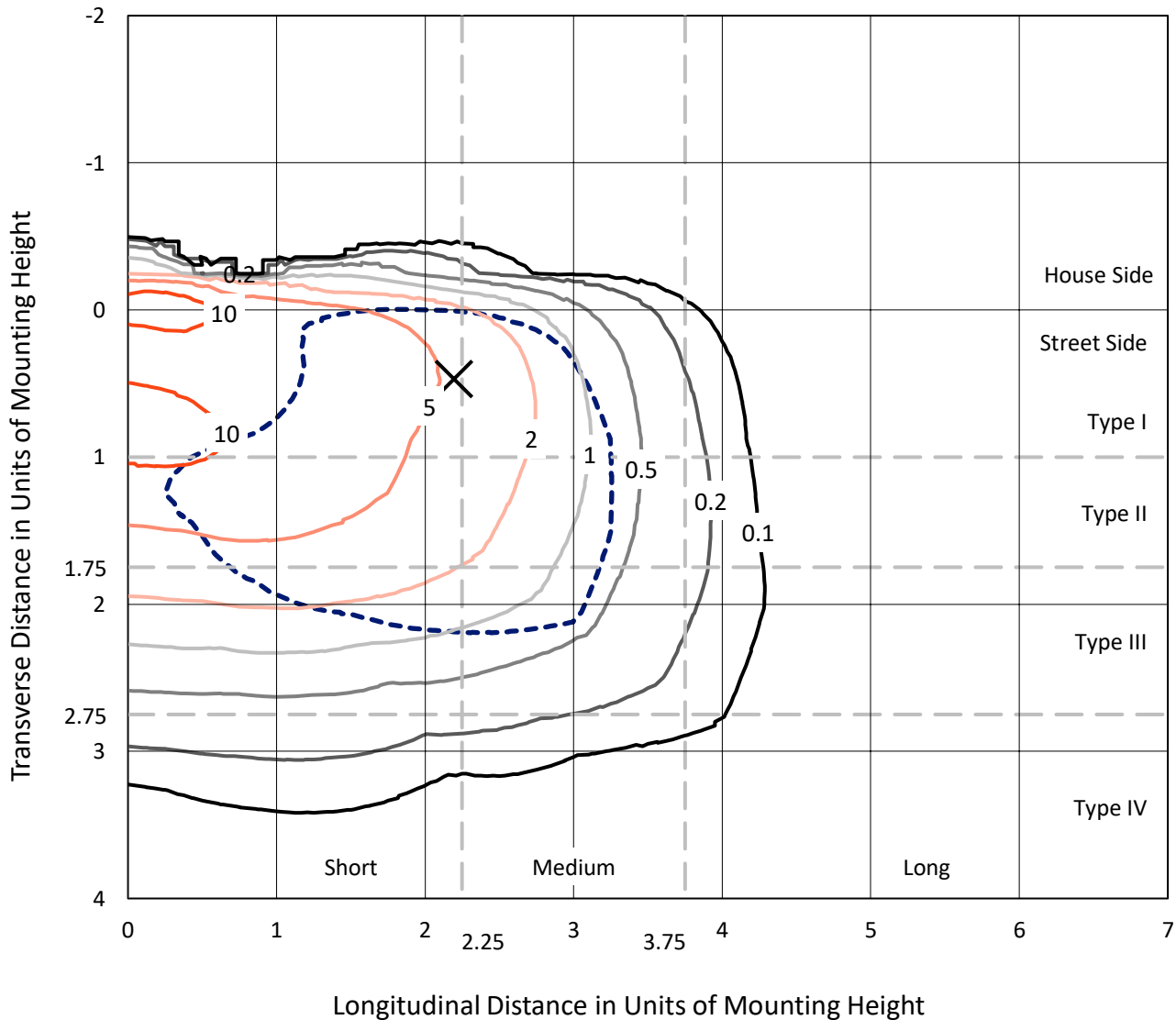
Lumens per Lamp: N/A
Luminaire Lumens: 7452.8 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

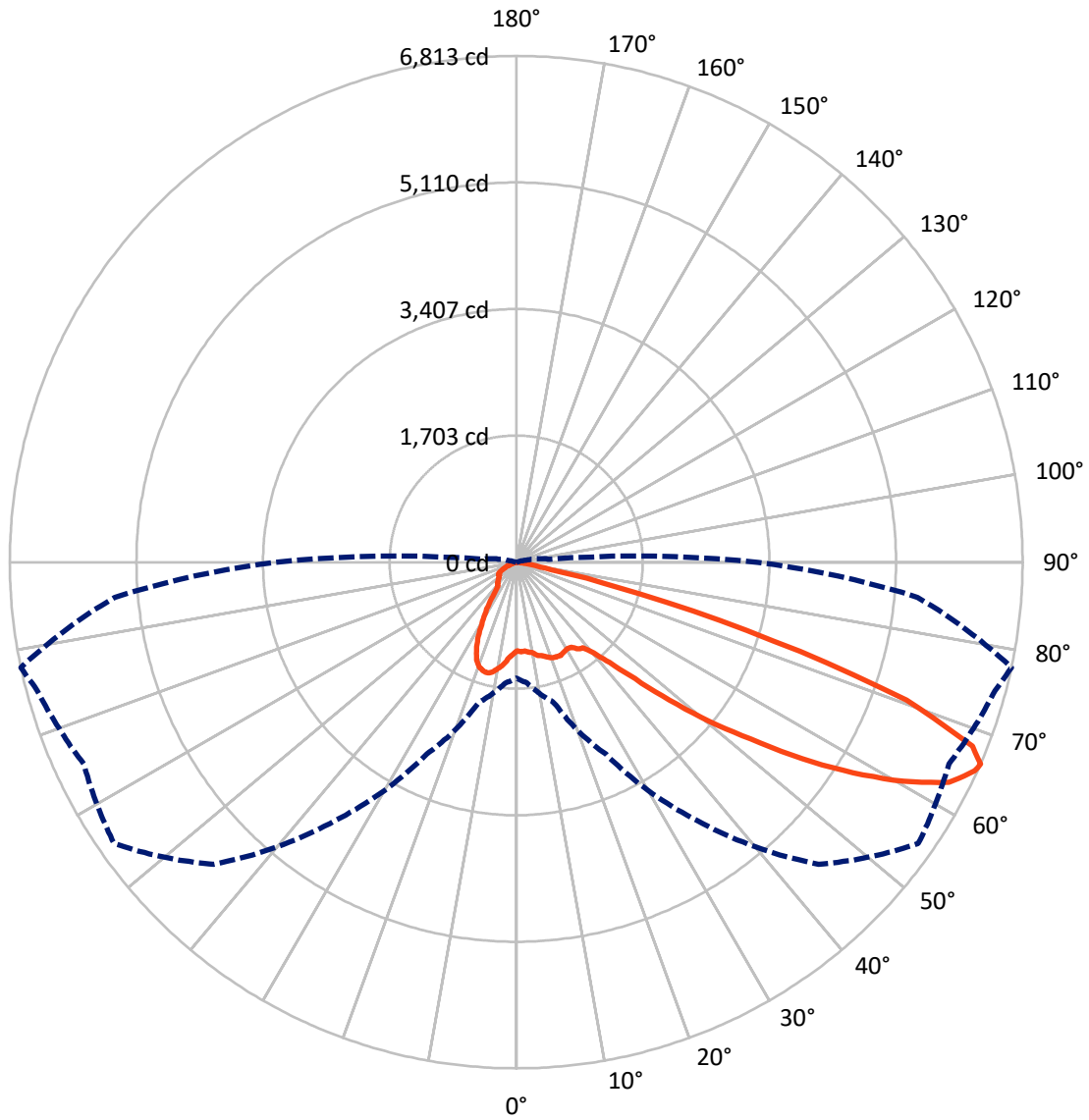
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 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	524.0	0.0	524.0
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	6928.8	0.0	6928.8
	% Fixture	93.0	0.0	93.0
Total	Lumens	7452.8	0.0	7452.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.2	1.5
10°-20°	246.5	3.3
20°-30°	352.3	4.7
30°-40°	603.1	8.1
40°-50°	1088.6	14.6
50°-60°	1861.6	25.0
60°-70°	2291.3	30.7
70°-80°	866.2	11.6
80°-90°	33.8	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°	7452.8	100.0
0°-180°	7452.8	100.0

Coefficient of Utilization

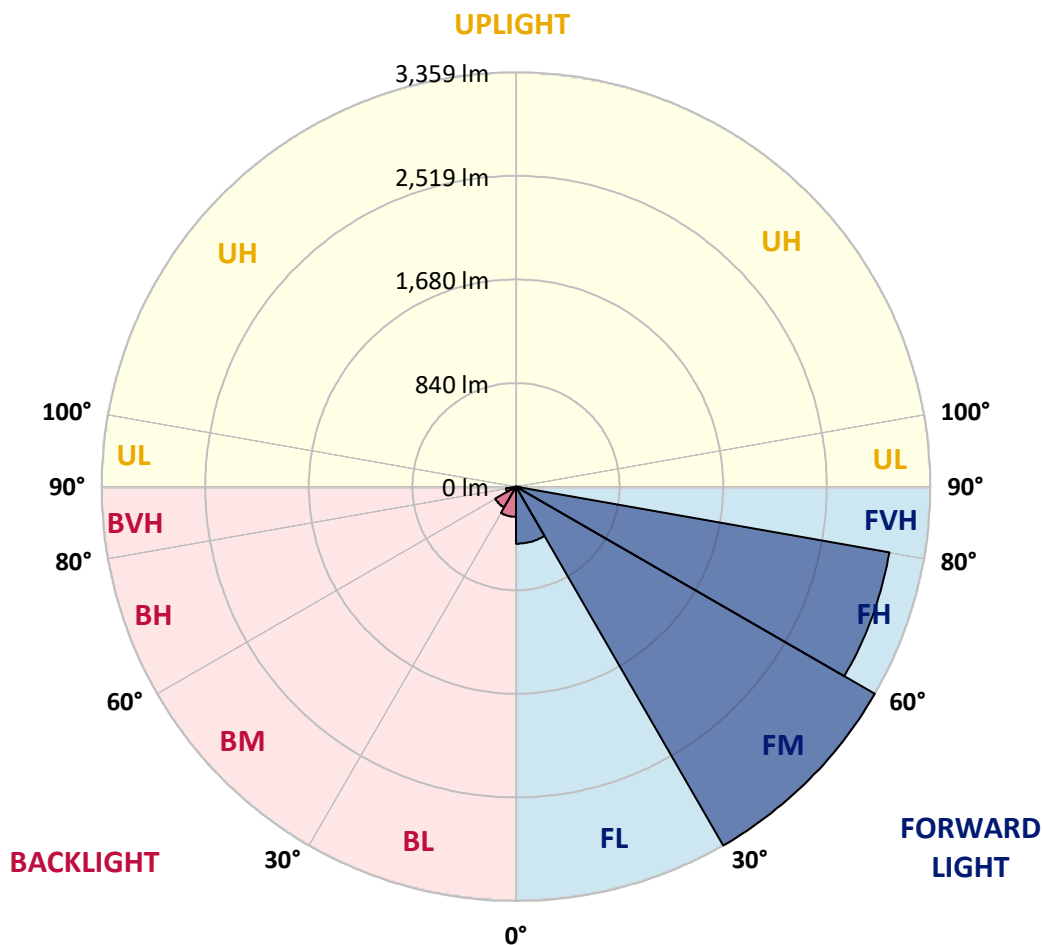


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	462.7	6.2			
FM (30°-60°)	3359.1	45.1			
FH (60°-80°)	3074.5	41.3			G2/5000
FVH (80°-90°)	32.5	0.4			G1/100
BL (0°-30°)	245.4	3.3	B1/500		
BM (30°-60°)	194.2	2.6	B0/220		
BH (60°-80°)	83.0	1.1	B0/110		G0/110
BVH (80°-90°)	1.4	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°	1193.7	1193.7	1193.7	1193.7	1193.7	1193.7	1193.7	1193.7	1193.7	1193.7	1193.7
2.5°	1098.0	1087.8	1098.0	1112.6	1120.5	1127.3	1150.9	1171.2	1192.6	1207.2	1202.7
5°	1018.0	1037.2	1039.4	1043.9	1056.3	1096.8	1110.4	1145.3	1198.2	1202.7	1223.0
7.5°	955.0	949.3	964.0	993.2	1024.8	1048.4	1087.8	1148.6	1203.8	1223.0	1262.4
10°	863.7	875.0	890.8	920.0	958.3	1016.9	1086.7	1154.3	1233.1	1239.9	1313.1
12.5°	814.2	802.9	827.7	858.1	923.4	977.5	1063.1	1144.1	1251.1	1288.3	1372.7
15°	773.6	779.3	802.9	823.2	877.3	945.9	1046.2	1168.9	1281.5	1307.4	1435.8
17.5°	756.8	753.4	771.4	791.7	858.1	935.8	1039.4	1170.0	1308.6	1342.3	1478.6
20°	764.6	771.4	765.8	784.9	826.6	905.4	1049.6	1191.4	1328.8	1375.0	1524.8
22.5°	888.5	879.5	834.5	798.4	800.7	893.0	1041.7	1205.0	1346.8	1384.0	1556.3
25°	1211.7	1163.3	1051.8	913.3	822.1	859.2	1032.7	1200.5	1343.5	1389.6	1575.5
27.5°	1537.2	1495.5	1386.3	1171.2	908.8	845.7	1001.1	1203.8	1326.6	1369.4	1543.9
30°	1880.6	1903.2	1741.0	1485.4	1136.3	920.0	980.9	1185.8	1315.3	1351.4	1550.7
32.5°	2233.1	2224.1	2126.1	1849.1	1461.7	1084.5	1013.5	1203.8	1330.0	1364.9	1590.1
35°	2509.0	2477.5	2378.4	2128.4	1730.9	1332.2	1126.1	1289.4	1394.1	1435.8	1646.4
37.5°	2645.3	2658.8	2601.4	2384.0	2025.9	1561.9	1266.9	1289.4	1414.4	1462.8	1737.6
40°	2751.1	2791.7	2770.3	2700.5	2318.7	1820.9	1422.3	1369.4	1516.9	1608.1	1908.8
42.5°	2878.4	2859.2	2985.4	2921.2	2701.6	2147.5	1694.8	1559.7	1759.0	1846.8	2165.5
45°	2945.9	3019.1	3114.9	3197.1	3056.3	2555.2	2050.7	1896.4	2129.5	2241.0	2547.3
47.5°	3119.4	3148.7	3304.1	3407.7	3344.6	3021.4	2591.2	2388.5	2595.7	2771.4	2984.2
50°	3220.7	3181.3	3398.7	3556.3	3592.3	3407.7	3075.5	2917.8	3149.8	3373.9	3393.0
52.5°	3131.8	3244.4	3461.7	3744.4	3844.6	3752.3	3644.1	3575.5	3738.7	3945.9	3853.6
55°	2819.8	2896.4	3425.7	3950.5	4273.7	4230.9	4331.1	4286.0	4450.5	4670.0	4391.9
57.5°	2568.7	2664.4	3129.5	4057.4	4673.4	4799.6	4925.7	4897.5	5095.7	5349.1	4848.0
60°	2412.2	2467.3	2915.5	4030.4	4909.9	5387.4	5672.3	5474.1	5797.3	5991.0	5205.0
62.5°	2140.8	2175.7	2603.6	3672.3	4980.9	5802.9	6286.0	6016.9	6297.3	6533.8	5461.7
65°	1716.2	1810.8	2164.4	3136.3	4512.4	5879.5	6668.9	6352.5	6623.9	6779.3	5539.4
66°	1561.9	1630.6	1955.0	2852.5	4245.5	5752.3	6604.7	6422.3	6671.2	6813.1	5420.0
67.5°	1296.2	1355.9	1613.7	2448.2	3699.3	5471.8	6649.8	6375.0	6707.2	6620.5	5260.1
70°	858.1	896.4	1103.6	1655.4	2576.6	4476.4	6167.8	6005.6	5896.4	5570.9	4112.6
72.5°	400.9	456.1	689.2	1003.4	1511.3	3131.8	5029.3	4811.9	4135.1	3614.9	2594.6
75°	181.3	206.1	378.4	575.5	677.9	1622.7	3244.4	2930.2	2058.6	1709.5	1136.3
77.5°	98.0	111.5	184.7	273.6	246.6	568.7	1605.9	1335.6	648.6	475.2	330.0
80°	75.5	89.0	154.3	156.5	91.2	147.5	596.8	413.3	162.2	122.7	78.8
82.5°	39.4	56.3	121.6	101.4	46.2	59.7	184.7	114.9	50.7	40.5	33.8
85°	15.8	24.8	68.7	67.6	27.0	20.3	51.8	34.9	20.3	16.9	15.8
87.5°	1.1	1.1	37.2	25.9	16.9	5.6	7.9	7.9	10.1	9.0	11.3
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°	1193.7	1193.7	1193.7	1193.7	1193.7	1193.7	1193.7	1193.7	1193.7	1193.7	1193.7
2.5°	1223.0	1236.5	1238.7	1275.9	1283.8	1275.9	1296.2	1292.8	1301.8	1295.0	1282.7
5°	1251.1	1270.3	1307.4	1335.6	1335.6	1313.1	1295.0	1271.4	1236.5	1227.5	1220.7
7.5°	1299.6	1360.4	1394.1	1376.1	1340.1	1255.6	1138.5	1052.9	980.9	953.8	941.4
10°	1385.1	1418.9	1458.3	1385.1	1235.4	1056.3	859.2	729.7	628.4	605.9	589.0
12.5°	1440.3	1494.4	1516.9	1335.6	1041.7	774.8	560.8	414.4	343.5	289.4	280.4
15°	1512.4	1574.3	1528.2	1201.6	820.9	507.9	290.5	181.3	147.5	138.5	138.5
17.5°	1561.9	1629.5	1482.0	1034.9	582.2	270.3	144.1	125.0	122.7	123.9	121.6
20°	1648.6	1689.2	1412.2	841.2	348.0	138.5	116.0	111.5	109.2	112.6	110.4
22.5°	1681.3	1718.5	1298.4	609.2	156.5	92.3	86.7	83.3	85.6	84.5	83.3
25°	1679.1	1698.2	1111.5	349.1	46.2	36.0	32.7	32.7	30.4	31.5	30.4
27.5°	1695.9	1648.6	902.0	103.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	1705.0	1568.7	641.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1709.5	1527.0	413.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	1744.4	1443.7	176.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1768.0	1336.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1866.0	1302.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1993.2	1239.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2170.0	1146.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2404.3	1091.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2578.8	1004.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2800.7	952.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3064.2	955.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3304.1	939.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3426.8	802.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3400.9	649.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3310.8	510.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	3248.9	451.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3060.8	361.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2435.8	247.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1549.6	152.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	714.0	69.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	224.1	42.8	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	58.6	27.0	9.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.4	19.1	7.9	3.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.1	7.9	3.4	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.9	4.5	2.3	2.3	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)