

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: P481584

Luminaire Tested: **IFLD-S-SA2B-730-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481584
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-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

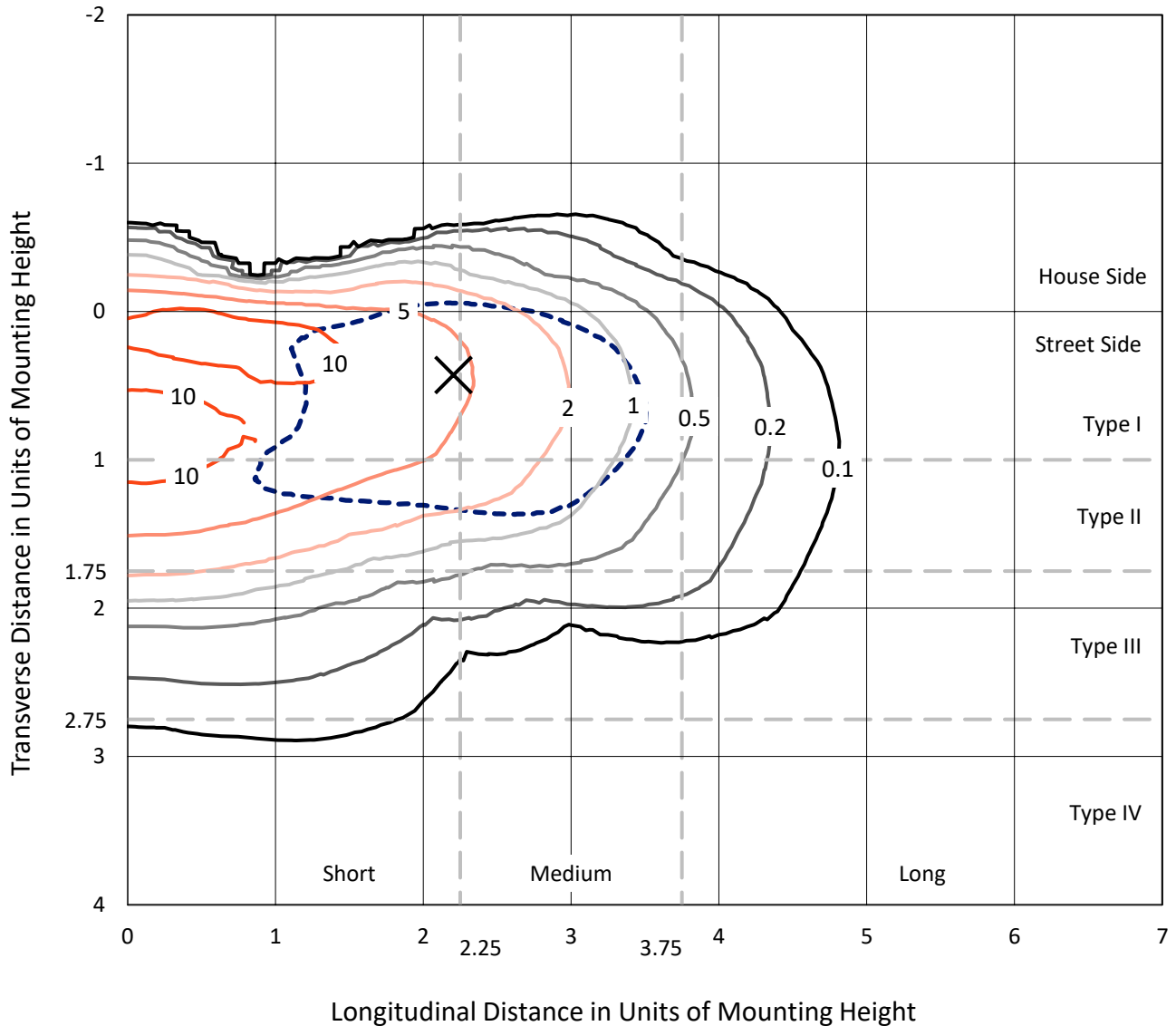
Lumens per Lamp: N/A
Luminaire Lumens: 7487.3 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

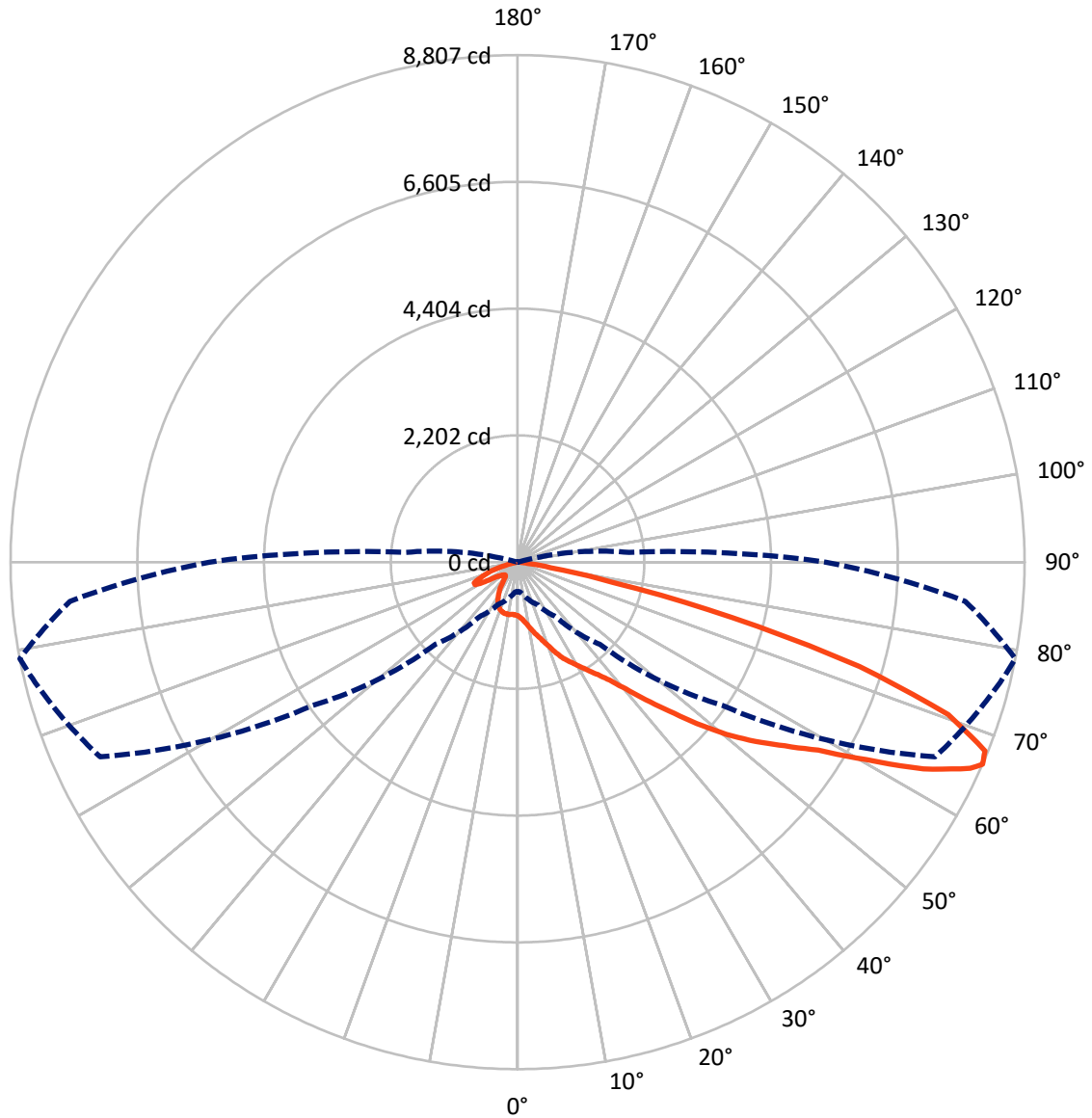
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14 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	562.2	0.0	562.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	6925.1	0.0	6925.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	7487.3	0.0	7487.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	1.2
10°-20°	242.5	3.2
20°-30°	402.8	5.4
30°-40°	691.8	9.2
40°-50°	1253.3	16.7
50°-60°	1981.1	26.5
60°-70°	2015.9	26.9
70°-80°	768.8	10.3
80°-90°	43.1	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°	7487.3	100.0
0°-180°	7487.3	100.0

Coefficient of Utilization



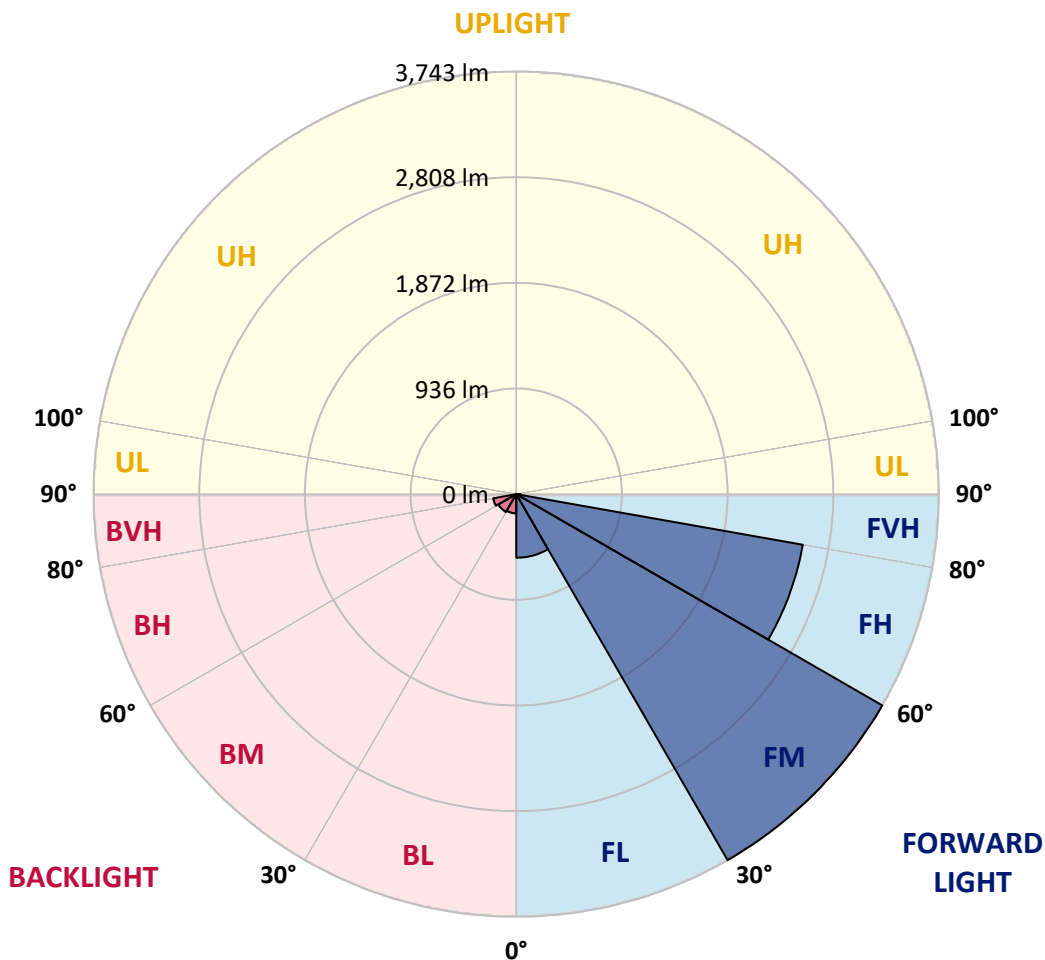
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	563.3	7.5			
FM (30°-60°)	3743.5	50.0			
FH (60°-80°)	2577.4	34.4			G2/5000
FVH (80°-90°)	40.9	0.5			G1/100
BL (0°-30°)	170.0	2.3	B1/500		
BM (30°-60°)	182.7	2.4	B0/220		
BH (60°-80°)	207.2	2.8	B1/500		G1/500
BVH (80°-90°)	2.2	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	931.5	931.5	931.5	931.5	931.5	931.5	931.5	931.5	931.5	931.5	931.5
2.5°	1055.0	1053.9	1049.2	1041.2	1030.8	1027.3	1012.3	991.5	980.0	967.3	961.5
5°	1127.7	1122.0	1135.8	1130.0	1132.4	1104.7	1086.2	1071.2	1027.3	1010.0	982.3
7.5°	1143.9	1149.7	1148.5	1157.7	1167.0	1177.4	1164.7	1142.7	1098.9	1073.5	1043.5
10°	1143.9	1141.6	1150.8	1163.5	1190.1	1213.2	1247.8	1218.9	1185.5	1155.4	1101.2
12.5°	1123.1	1119.7	1128.9	1155.4	1202.8	1250.1	1288.2	1315.9	1268.6	1244.3	1173.9
15°	1059.6	1056.2	1094.3	1141.6	1203.9	1281.3	1360.9	1405.9	1373.6	1335.5	1257.0
17.5°	981.1	985.8	1026.2	1104.7	1203.9	1296.3	1397.8	1496.0	1491.3	1442.9	1360.9
20°	954.6	958.1	998.5	1055.0	1168.1	1306.7	1455.6	1594.1	1621.8	1564.1	1456.7
22.5°	1005.4	1001.9	1005.4	1040.0	1143.9	1297.4	1493.6	1706.0	1755.7	1710.7	1582.5
25°	1178.5	1176.2	1147.4	1094.3	1130.0	1276.6	1513.3	1779.9	1894.2	1852.6	1684.1
27.5°	1432.5	1423.2	1378.2	1267.4	1194.7	1289.3	1545.6	1851.5	2015.4	1968.1	1775.3
30°	1704.9	1682.9	1624.1	1485.6	1362.1	1336.7	1564.1	1904.6	2150.4	2090.4	1854.9
32.5°	1893.0	1921.9	1903.4	1762.6	1573.3	1446.3	1594.1	1971.5	2275.1	2235.9	1991.1
35°	2183.9	2217.4	2140.0	2015.4	1824.9	1620.6	1657.6	2025.8	2466.7	2400.9	2118.1
37.5°	2551.0	2576.4	2521.0	2284.3	2083.5	1835.3	1788.0	2138.9	2631.8	2600.6	2280.9
40°	2735.7	2858.0	2779.5	2566.0	2350.1	2135.4	2003.8	2271.6	2919.2	2893.8	2506.0
42.5°	2990.8	3051.9	3011.5	2853.4	2628.3	2456.3	2270.5	2530.2	3267.8	3267.8	2810.7
45°	3260.9	3263.2	3260.9	3131.6	2931.9	2843.0	2630.6	2854.6	3642.9	3684.5	3175.4
47.5°	3482.5	3551.7	3546.0	3468.6	3314.0	3280.5	2990.8	3223.9	4113.9	4186.6	3531.0
50°	3596.8	3674.1	3697.2	3737.6	3730.7	3801.1	3384.4	3652.2	4520.2	4699.1	3988.1
52.5°	3565.6	3571.4	3713.3	3872.6	4126.6	4324.0	3858.8	4138.1	4995.8	5172.4	4341.3
55°	3310.5	3288.6	3580.6	3763.0	4288.2	4643.7	4515.6	4744.1	5366.3	5635.2	4706.0
57.5°	2750.7	2756.4	3026.5	3397.1	4168.1	4770.7	5217.4	5536.0	5885.7	6157.0	5218.5
60°	1898.8	1891.9	2194.3	2622.5	3462.9	4534.0	5621.4	6562.1	6580.6	6965.0	6138.5
62.5°	1067.7	1070.0	1299.7	1665.6	2422.8	3705.3	5601.8	7651.8	7573.3	7910.3	7184.3
65°	604.8	619.9	778.0	986.9	1450.9	2487.5	4818.0	8085.8	8338.6	8638.7	7819.1
66°	511.3	521.7	656.8	814.9	1157.7	2017.7	4336.7	8001.5	8578.7	8807.2	7806.4
67.5°	395.9	409.8	522.9	646.4	849.6	1396.7	3490.6	7582.5	8622.5	8756.4	7586.0
70°	271.3	280.5	367.1	490.6	580.6	714.5	2086.9	6268.9	7823.8	7936.9	6593.3
72.5°	190.5	195.1	257.4	371.7	446.7	408.6	1035.4	4460.2	5987.3	6207.8	5128.5
75°	137.4	142.0	176.6	266.6	348.6	267.8	474.4	2848.8	3671.8	3844.9	3088.9
77.5°	99.3	105.0	120.0	172.0	252.8	188.1	233.2	1487.9	1731.4	1701.4	1328.6
80°	60.0	65.8	88.9	110.8	184.7	132.7	128.1	621.0	614.1	582.9	417.9
82.5°	27.7	32.3	47.3	75.0	129.3	92.3	61.2	221.6	193.9	177.8	117.7
85°	8.1	10.4	27.7	56.6	65.8	45.0	36.9	76.2	79.6	68.1	39.2
87.5°	0.0	1.2	12.7	13.9	19.6	15.0	13.9	19.6	36.9	30.0	12.7
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°	931.5	931.5	931.5	931.5	931.5	931.5	931.5	931.5	931.5	931.5	931.5
2.5°	940.7	932.7	913.0	883.0	856.5	842.6	823.0	805.7	796.5	795.3	794.1
5°	963.8	941.9	894.6	840.3	799.9	756.1	726.0	704.1	683.3	663.7	675.3
7.5°	995.0	960.4	883.0	812.6	724.9	668.3	615.2	584.1	565.6	548.3	546.0
10°	1043.5	999.6	874.9	748.0	647.6	564.4	510.2	465.2	439.8	409.8	421.3
12.5°	1109.3	1030.8	844.9	689.1	559.8	472.1	394.8	322.0	281.6	250.5	251.6
15°	1175.1	1072.3	817.2	617.5	480.2	364.8	251.6	202.0	190.5	183.5	185.8
17.5°	1239.7	1105.8	774.5	544.8	389.0	232.0	183.5	173.1	167.4	160.4	160.4
20°	1318.2	1127.7	721.4	477.9	267.8	172.0	157.0	150.1	140.8	131.6	132.7
22.5°	1394.4	1146.2	660.3	392.5	180.1	148.9	131.6	122.4	114.3	105.0	105.0
25°	1470.6	1152.0	580.6	281.6	145.4	118.9	102.7	90.0	82.0	73.9	75.0
27.5°	1522.5	1116.2	505.6	180.1	116.6	90.0	71.6	61.2	54.3	46.2	46.2
30°	1552.5	1050.4	424.8	127.0	87.7	61.2	42.7	32.3	25.4	19.6	18.5
32.5°	1582.5	997.3	333.6	97.0	57.7	32.3	16.2	5.8	0.0	0.0	0.0
35°	1642.5	937.3	223.9	54.3	19.6	1.2	0.0	0.0	0.0	0.0	0.0
37.5°	1680.6	854.2	102.7	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1776.4	812.6	25.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1932.3	783.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2103.1	772.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2330.5	803.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2570.6	887.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2833.8	967.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3063.5	1063.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3485.9	1289.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4244.3	1733.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5098.5	2063.9	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5411.3	2055.8	21.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5355.9	1942.7	21.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5068.5	1725.7	19.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4352.8	1425.5	19.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3318.6	1110.4	18.5	4.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	2002.7	591.0	15.0	5.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	797.6	207.8	11.5	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	215.9	62.3	6.9	4.6	3.5	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	56.6	23.1	5.8	4.6	2.3	1.2	0.0	0.0	0.0	0.0	0.0
85°	21.9	9.2	4.6	3.5	3.5	2.3	1.2	0.0	0.0	0.0	0.0
87.5°	6.9	3.5	3.5	2.3	2.3	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)