

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: P482993

Luminaire Tested: **IFLD-S-SA3B-830-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482993  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-830-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

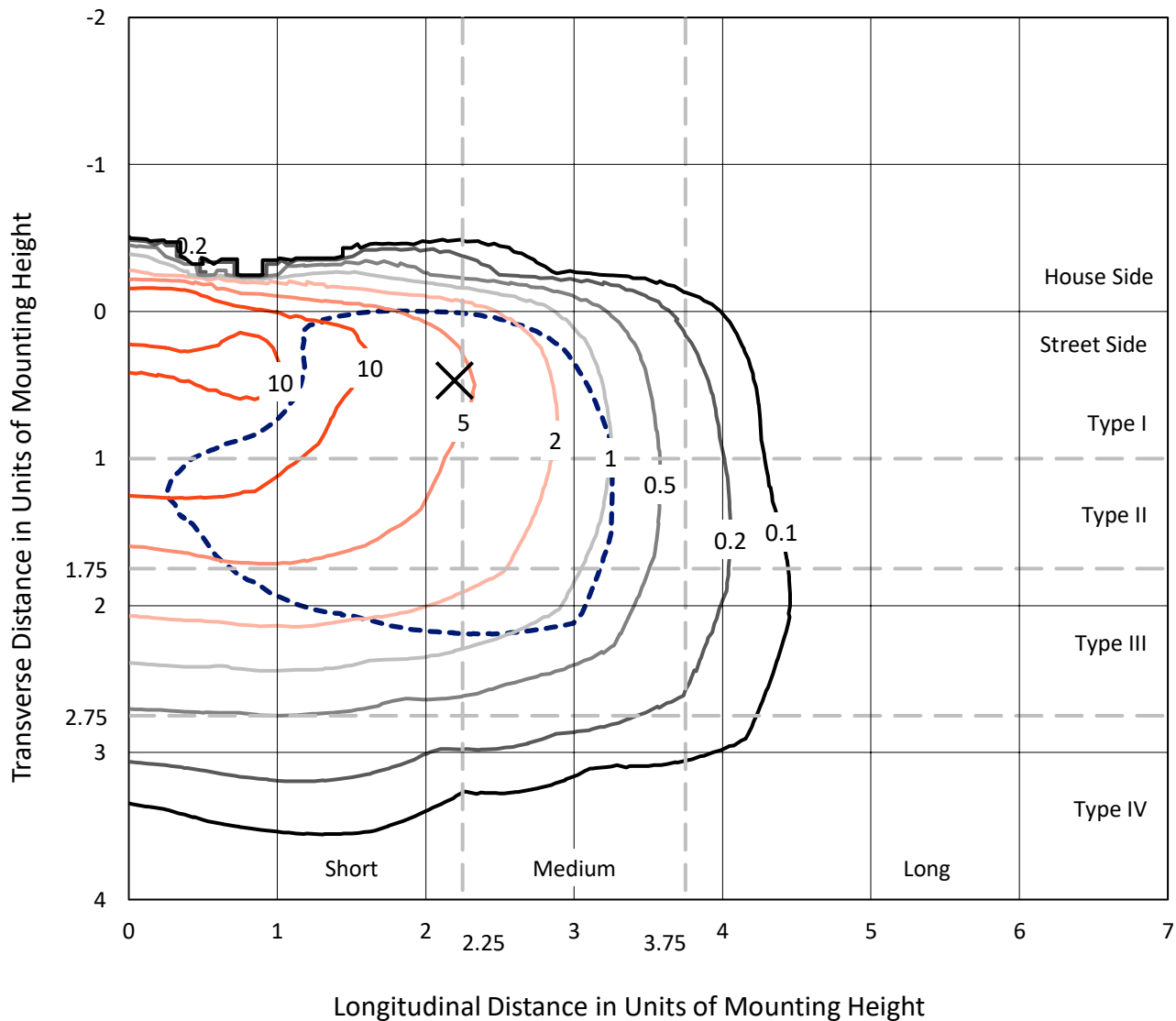
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9692 lumens  
Efficiency: N/A  
Efficacy: 79.2 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): 122.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

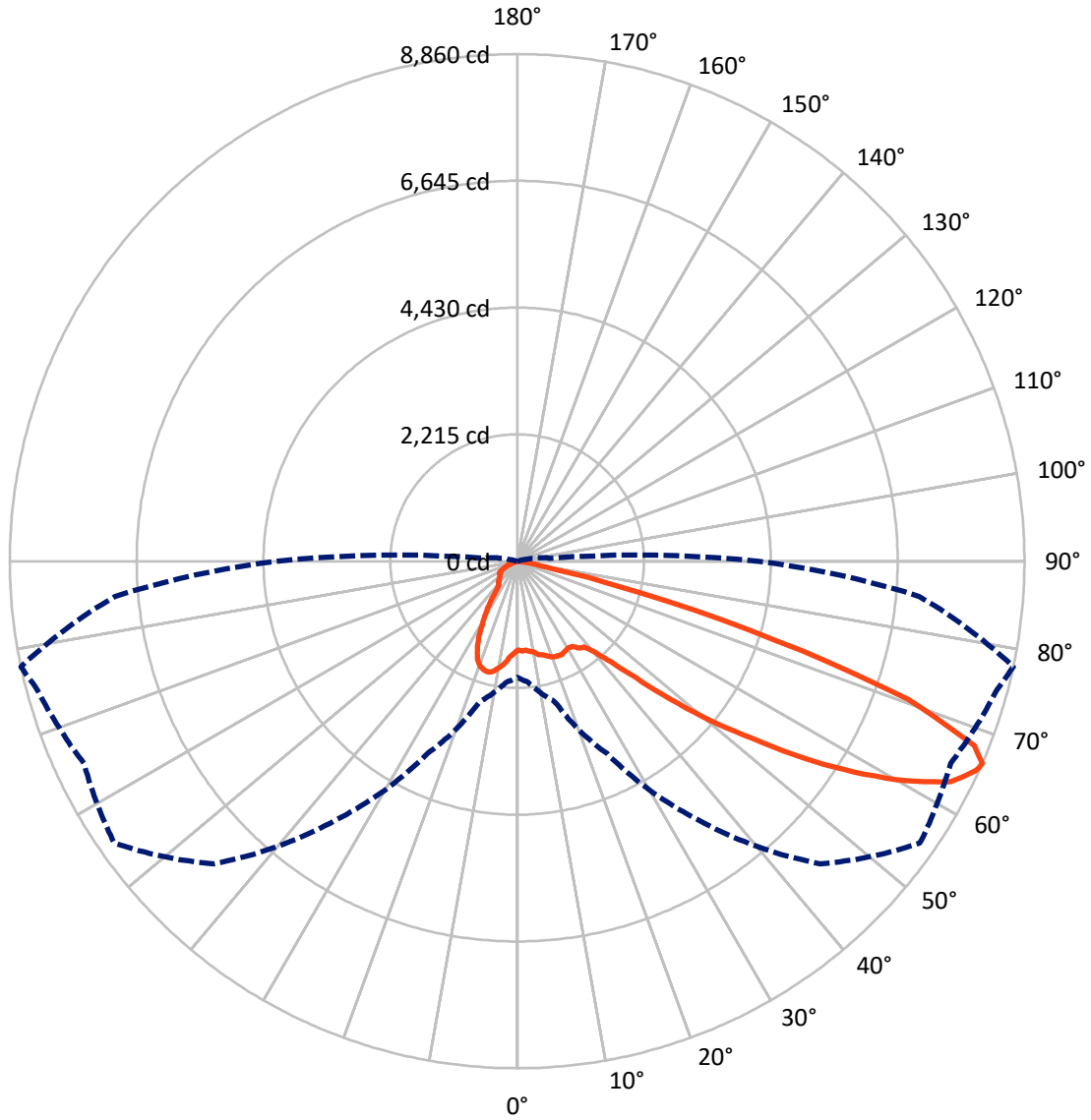
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.7 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
<b>House Side</b>	Lumens	681.4	0.0	681.4
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	9010.6	0.0	9010.6
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	9692.0	0.0	9692.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.0	1.5
10°-20°	320.6	3.3
20°-30°	458.2	4.7
30°-40°	784.3	8.1
40°-50°	1415.6	14.6
50°-60°	2420.9	25.0
60°-70°	2979.7	30.7
70°-80°	1126.5	11.6
80°-90°	44.0	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°	9692.0	100.0
0°-180°	9692.0	100.0

**Coefficient of Utilization**

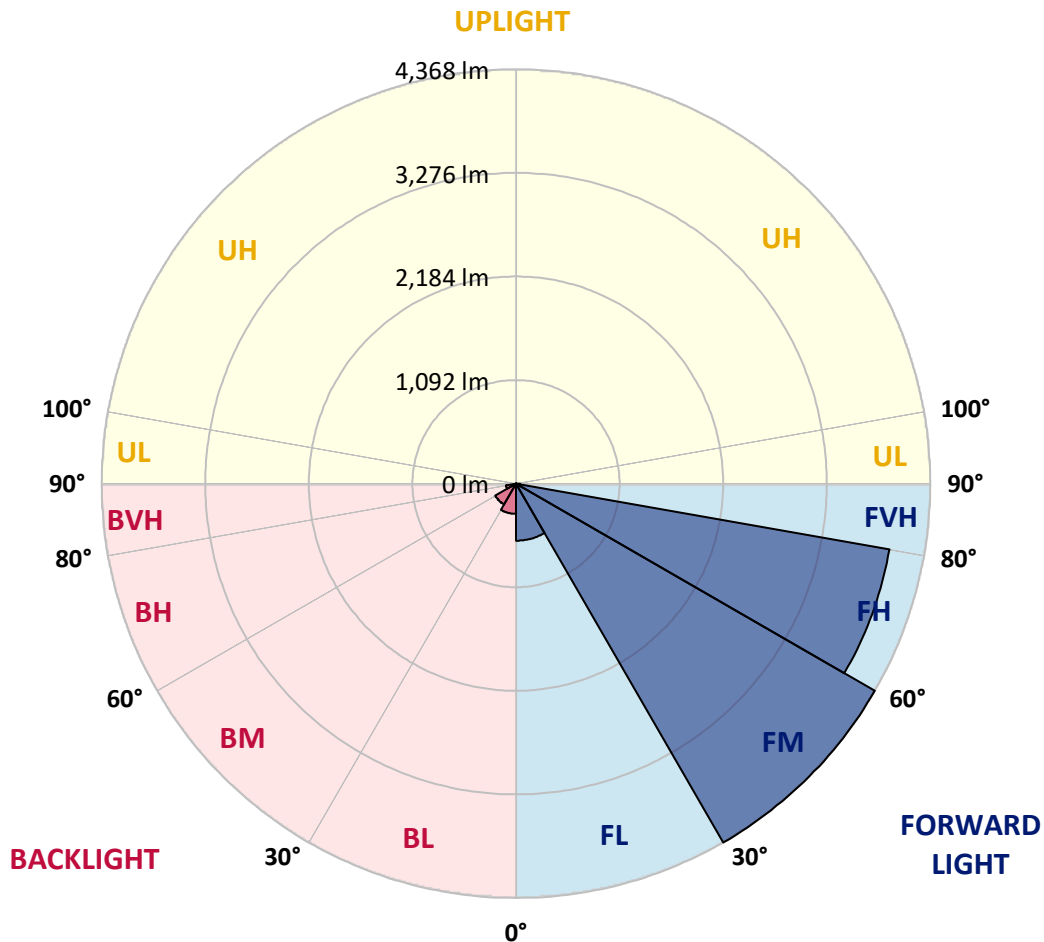


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	601.7	6.2			
FM (30°-60°)	4368.4	45.1			
FH (60°-80°)	3998.3	41.3			G2/5000
FVH (80°-90°)	42.2	0.4			G1/100
BL (0°-30°)	319.1	3.3	B1/500		
BM (30°-60°)	252.5	2.6	B1/1000		
BH (60°-80°)	108.0	1.1	B0/110		G0/110
BVH (80°-90°)	1.8	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°	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3
2.5°	1427.9	1414.7	1427.9	1446.9	1457.1	1465.9	1496.7	1523.1	1550.9	1569.9	1564.1
5°	1323.9	1348.8	1351.7	1357.6	1373.7	1426.4	1444.0	1489.4	1558.2	1564.1	1590.4
7.5°	1241.9	1234.5	1253.6	1291.7	1332.7	1363.4	1414.7	1493.8	1565.5	1590.4	1641.7
10°	1123.2	1137.9	1158.4	1196.5	1246.3	1322.4	1413.2	1501.1	1603.6	1612.4	1707.6
12.5°	1058.8	1044.2	1076.4	1115.9	1200.9	1271.2	1382.5	1487.9	1627.0	1675.4	1785.2
15°	1006.1	1013.4	1044.2	1070.5	1140.8	1230.2	1360.5	1520.1	1666.6	1700.3	1867.2
17.5°	984.1	979.7	1003.2	1029.5	1115.9	1217.0	1351.7	1521.6	1701.7	1745.6	1922.9
20°	994.4	1003.2	995.8	1020.7	1074.9	1177.4	1364.9	1549.4	1728.1	1788.1	1982.9
22.5°	1155.5	1143.8	1085.2	1038.3	1041.2	1161.3	1354.6	1567.0	1751.5	1799.8	2023.9
25°	1575.8	1512.8	1367.8	1187.7	1069.1	1117.4	1342.9	1561.1	1747.1	1807.2	2048.8
27.5°	1999.0	1944.8	1802.8	1523.1	1181.8	1099.8	1301.9	1565.5	1725.1	1780.8	2007.8
30°	2445.7	2475.0	2264.1	1931.6	1477.7	1196.5	1275.6	1542.1	1710.5	1757.4	2016.6
32.5°	2904.0	2892.3	2764.9	2404.7	1900.9	1410.3	1318.0	1565.5	1729.5	1774.9	2067.8
35°	3262.8	3221.8	3093.0	2767.9	2250.9	1732.5	1464.5	1676.8	1813.0	1867.2	2141.1
37.5°	3440.0	3457.6	3382.9	3100.3	2634.6	2031.2	1647.5	1676.8	1839.4	1902.3	2259.7
40°	3577.7	3630.4	3602.6	3511.8	3015.3	2368.1	1849.6	1780.8	1972.6	2091.3	2482.3
42.5°	3743.2	3718.3	3882.3	3798.8	3513.3	2792.7	2204.0	2028.3	2287.5	2401.7	2816.2
45°	3831.1	3926.2	4050.7	4157.6	3974.6	3322.9	2666.8	2466.2	2769.3	2914.3	3312.6
47.5°	4056.6	4094.7	4296.8	4431.5	4349.5	3929.2	3369.7	3106.1	3375.6	3604.1	3880.8
50°	4188.4	4137.1	4419.8	4624.8	4671.7	4431.5	3999.5	3794.4	4096.1	4387.6	4412.5
52.5°	4072.7	4219.1	4501.8	4869.4	4999.7	4879.6	4739.0	4649.7	4862.0	5131.5	5011.4
55°	3667.0	3766.6	4454.9	5137.4	5557.7	5502.0	5632.4	5573.8	5787.6	6073.2	5711.4
57.5°	3340.5	3464.9	4069.8	5276.5	6077.6	6241.6	6405.6	6369.0	6626.7	6956.2	6304.5
60°	3136.9	3208.7	3791.5	5241.3	6385.1	7006.0	7376.5	7118.8	7539.1	7791.0	6768.8
62.5°	2784.0	2829.4	3385.9	4775.6	6477.4	7546.4	8174.7	7824.7	8189.3	8496.9	7102.7
65°	2231.9	2354.9	2814.7	4078.6	5868.1	7646.0	8672.6	8261.1	8614.0	8816.1	7203.7
66°	2031.2	2120.6	2542.3	3709.5	5521.1	7480.5	8589.1	8351.9	8675.5	8860.1	7048.5
67.5°	1685.6	1763.2	2098.6	3183.8	4810.8	7115.9	8647.7	8290.4	8722.4	8609.6	6840.5
70°	1115.9	1165.7	1435.2	2152.8	3350.7	5821.3	8020.9	7810.0	7668.0	7244.7	5348.2
72.5°	521.4	593.1	896.3	1304.8	1965.3	4072.7	6540.3	6257.7	5377.5	4701.0	3374.1
75°	235.8	268.0	492.1	748.3	881.6	2110.3	4219.1	3810.6	2677.1	2223.1	1477.7
77.5°	127.4	145.0	240.2	355.9	320.7	739.6	2088.3	1736.9	843.5	618.0	429.1
80°	98.1	115.7	200.6	203.6	118.6	191.8	776.2	537.5	210.9	159.6	102.5
82.5°	51.3	73.2	158.2	131.8	60.0	77.6	240.2	149.4	65.9	52.7	43.9
85°	20.5	32.2	89.3	87.9	35.1	26.4	67.4	45.4	26.4	22.0	20.5
87.5°	1.5	1.5	48.3	33.7	22.0	7.3	10.3	10.3	13.2	11.7	14.6
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°	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3	1552.3
2.5°	1590.4	1608.0	1610.9	1659.2	1669.5	1659.2	1685.6	1681.2	1692.9	1684.1	1668.0
5°	1627.0	1651.9	1700.3	1736.9	1736.9	1707.6	1684.1	1653.4	1608.0	1596.3	1587.5
7.5°	1690.0	1769.1	1813.0	1789.6	1742.7	1632.9	1480.6	1369.3	1275.6	1240.4	1224.3
10°	1801.3	1845.2	1896.5	1801.3	1606.5	1373.7	1117.4	949.0	817.2	787.9	765.9
12.5°	1873.1	1943.4	1972.6	1736.9	1354.6	1007.6	729.3	538.9	446.7	376.4	364.7
15°	1966.8	2047.3	1987.3	1562.6	1067.6	660.5	377.8	235.8	191.8	180.1	180.1
17.5°	2031.2	2119.1	1927.2	1345.8	757.1	351.5	187.5	162.6	159.6	161.1	158.2
20°	2144.0	2196.7	1836.4	1094.0	452.5	180.1	150.8	145.0	142.1	146.4	143.5
22.5°	2186.5	2234.8	1688.5	792.3	203.6	120.1	112.8	108.4	111.3	109.8	108.4
25°	2183.5	2208.4	1445.4	454.0	60.0	46.9	42.5	42.5	39.5	41.0	39.5
27.5°	2205.5	2144.0	1173.0	134.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2217.2	2040.0	834.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2223.1	1985.8	537.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2268.5	1877.5	229.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2299.2	1738.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2426.6	1694.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2592.1	1612.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2822.0	1490.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3126.6	1419.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3353.6	1306.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3642.1	1238.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3984.8	1241.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4296.8	1221.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4456.4	1044.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4422.7	845.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4305.5	663.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4225.0	587.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3980.4	470.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3167.7	322.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2015.1	197.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	928.5	90.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	291.4	55.6	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	76.2	35.1	11.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.5	24.9	10.3	4.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.9	10.3	4.4	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.0	5.9	2.9	2.9	1.5	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)