

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: P482836

Luminaire Tested: **IFLD-S-SA3A-740-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482836  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-740-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

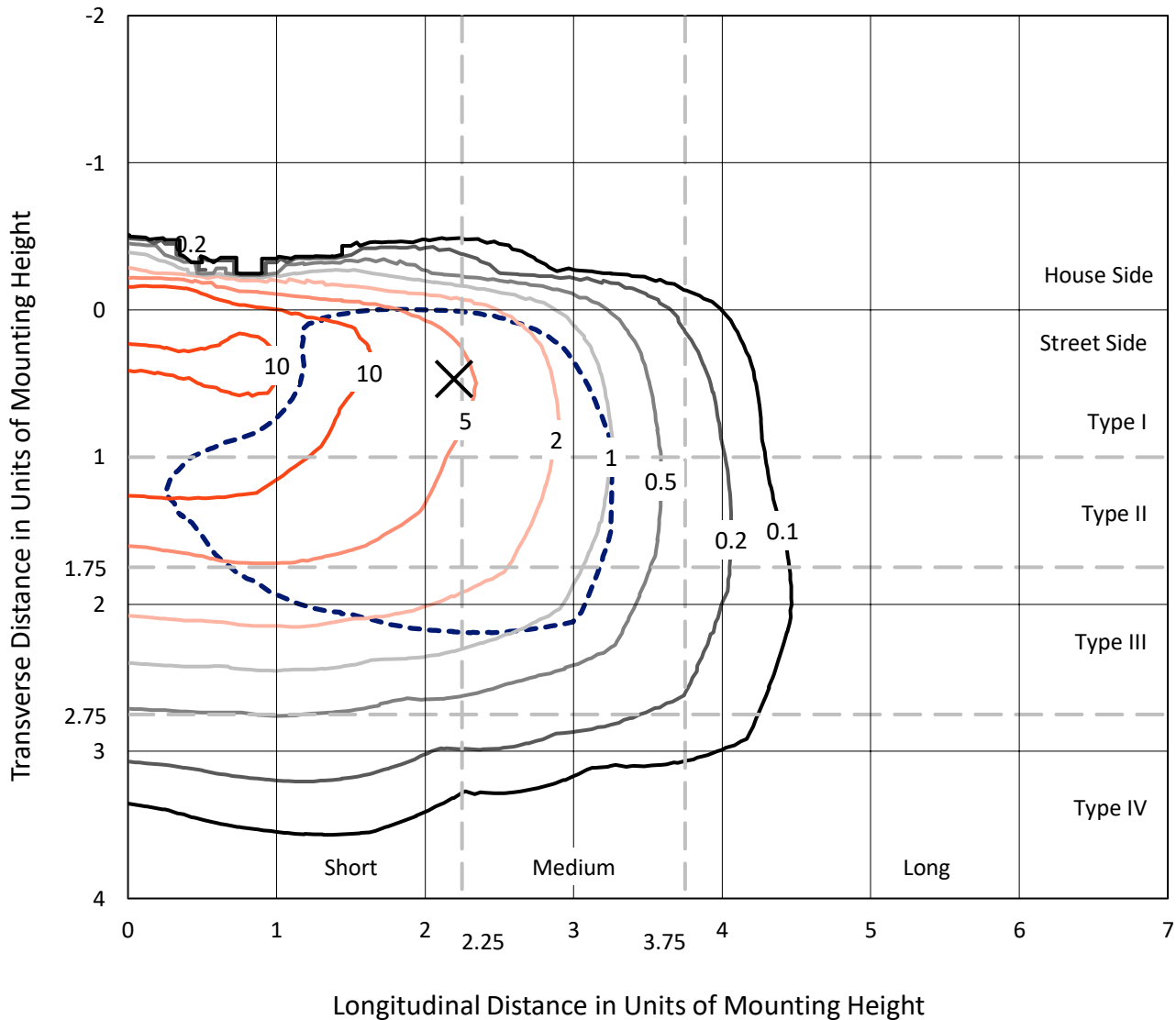
Lumens per Lamp: N/A  
Luminaire Lumens: 9862.4 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (A<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

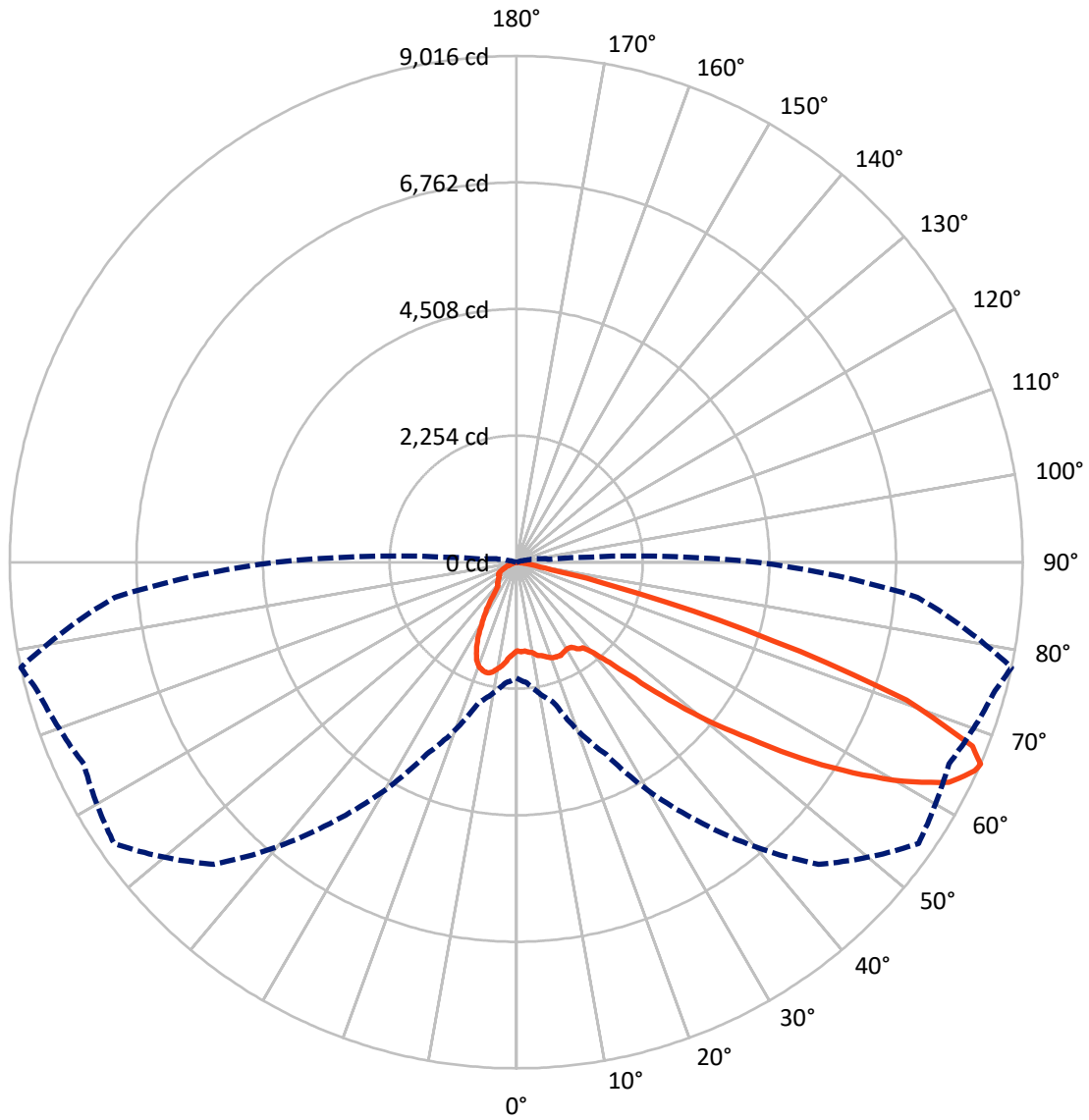
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18 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	693.4	0.0	693.4
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	9169.0	0.0	9169.0
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	9862.4	0.0	9862.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.5	1.5
10°-20°	326.2	3.3
20°-30°	466.3	4.7
30°-40°	798.1	8.1
40°-50°	1440.5	14.6
50°-60°	2463.5	25.0
60°-70°	3032.1	30.7
70°-80°	1146.3	11.6
80°-90°	44.8	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°	9862.4	100.0
0°-180°	9862.4	100.0

**Coefficient of Utilization**

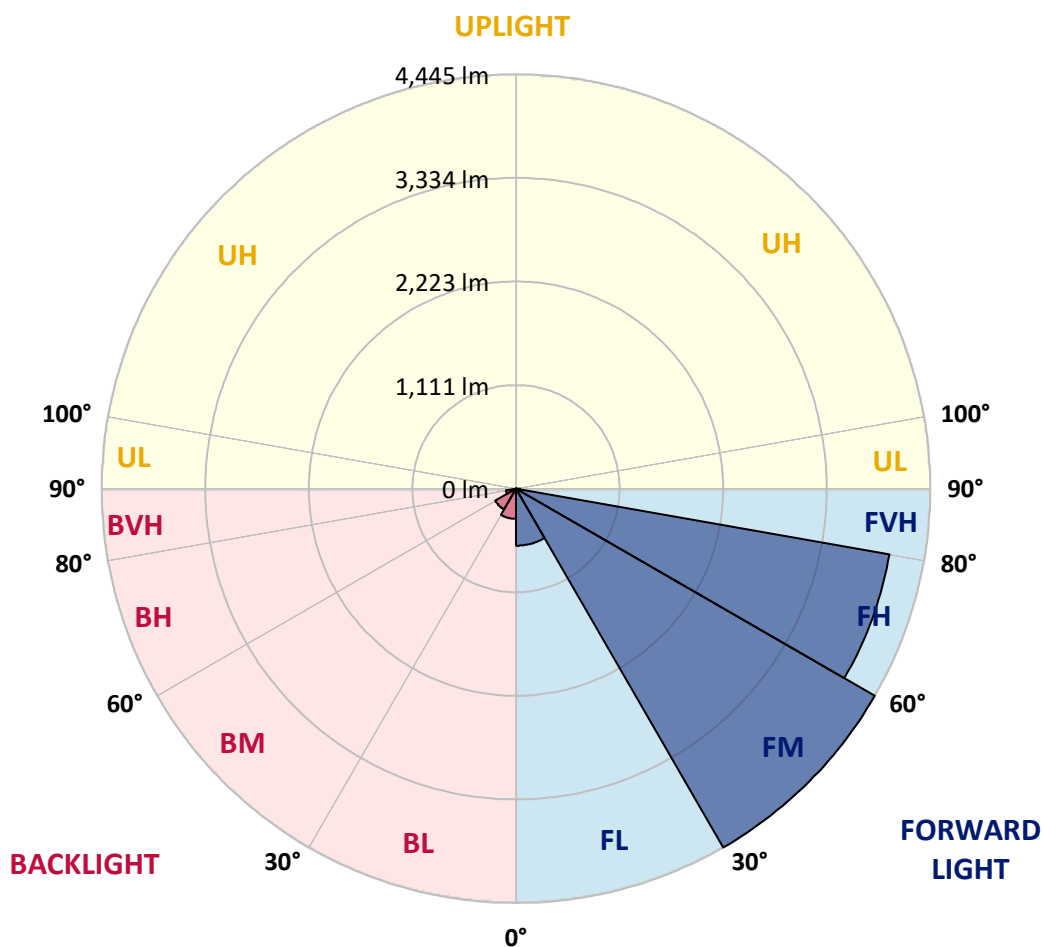


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.3	6.2			
FM (30°-60°)	4445.2	45.1			
FH (60°-80°)	4068.6	41.3			G2/5000
FVH (80°-90°)	43.0	0.4			G1/100
BL (0°-30°)	324.7	3.3	B1/500		
BM (30°-60°)	257.0	2.6	B1/1000		
BH (60°-80°)	109.9	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°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1453.0	1439.6	1453.0	1472.3	1482.8	1491.7	1523.0	1549.8	1578.1	1597.5	1591.6
5°	1347.2	1372.5	1375.5	1381.4	1397.8	1451.5	1469.4	1515.6	1585.6	1591.6	1618.4
7.5°	1263.7	1256.3	1275.6	1314.4	1356.1	1387.4	1439.6	1520.0	1593.0	1618.4	1670.5
10°	1143.0	1157.9	1178.8	1217.5	1268.2	1345.7	1438.1	1527.5	1631.8	1640.7	1737.6
12.5°	1077.4	1062.5	1095.3	1135.5	1222.0	1293.5	1406.8	1514.1	1655.6	1704.8	1816.6
15°	1023.8	1031.2	1062.5	1089.4	1160.9	1251.8	1384.4	1546.8	1695.9	1730.1	1900.0
17.5°	1001.4	997.0	1020.8	1047.6	1135.5	1238.4	1375.5	1548.3	1731.6	1776.3	1956.7
20°	1011.9	1020.8	1013.3	1038.7	1093.8	1198.1	1388.9	1576.7	1758.5	1819.6	2017.8
22.5°	1175.8	1163.9	1104.3	1056.6	1059.5	1181.7	1378.5	1594.5	1782.3	1831.5	2059.5
25°	1603.5	1539.4	1391.9	1208.6	1087.9	1137.0	1366.5	1588.6	1777.8	1838.9	2084.8
27.5°	2034.1	1979.0	1834.5	1549.8	1202.6	1119.2	1324.8	1593.0	1755.5	1812.1	2043.1
30°	2488.7	2518.5	2303.9	1965.6	1503.6	1217.5	1298.0	1569.2	1740.6	1788.3	2052.0
32.5°	2955.1	2943.2	2813.5	2446.9	1934.3	1435.1	1341.2	1593.0	1759.9	1806.1	2104.2
35°	3320.2	3278.5	3147.3	2816.5	2290.5	1762.9	1490.2	1706.3	1844.9	1900.0	2178.7
37.5°	3500.5	3518.4	3442.4	3154.8	2680.9	2066.9	1676.5	1706.3	1871.7	1935.8	2299.4
40°	3640.6	3694.3	3665.9	3573.5	3068.4	2409.7	1882.1	1812.1	2007.3	2128.0	2525.9
42.5°	3809.0	3783.7	3950.6	3865.6	3575.0	2841.8	2242.8	2064.0	2327.7	2444.0	2865.7
45°	3898.4	3995.3	4121.9	4230.7	4044.5	3381.3	2713.7	2509.5	2818.0	2965.5	3370.9
47.5°	4127.9	4166.7	4372.3	4509.4	4426.0	3998.3	3429.0	3160.8	3435.0	3667.4	3949.1
50°	4262.0	4209.9	4497.5	4706.1	4753.8	4509.4	4069.8	3861.2	4168.1	4464.7	4490.0
52.5°	4144.3	4293.3	4580.9	4955.0	5087.6	4965.4	4822.3	4731.4	4947.5	5221.7	5099.5
55°	3731.5	3832.8	4533.2	5227.7	5655.4	5598.8	5731.4	5671.8	5889.3	6179.9	5811.9
57.5°	3399.2	3525.9	4141.3	5369.3	6184.4	6351.3	6518.2	6481.0	6743.2	7078.5	6415.4
60°	3192.0	3265.1	3858.2	5333.5	6497.4	7129.2	7506.2	7244.0	7671.6	7928.0	6887.8
62.5°	2832.9	2879.1	3445.4	4859.6	6591.2	7679.1	8318.4	7962.2	8333.3	8646.3	7227.6
65°	2271.1	2396.3	2864.2	4150.3	5971.3	7780.4	8825.1	8406.3	8765.5	8971.1	7330.4
66°	2066.9	2157.8	2587.0	3774.7	5618.1	7612.0	8740.1	8498.7	8828.1	9015.8	7172.4
67.5°	1715.2	1794.2	2135.5	3239.7	4895.4	7241.0	8799.7	8436.1	8875.7	8761.0	6960.8
70°	1135.5	1186.2	1460.4	2190.6	3409.6	5923.6	8161.9	7947.3	7802.8	7372.1	5442.3
72.5°	530.5	603.5	912.0	1327.8	1999.9	4144.3	6655.3	6367.7	5472.1	4783.6	3433.5
75°	239.9	272.7	500.7	761.5	897.1	2147.4	4293.3	3877.6	2724.1	2262.2	1503.6
77.5°	129.6	147.5	244.4	362.1	326.4	752.6	2125.1	1767.4	858.4	628.9	436.6
80°	99.8	117.7	204.2	207.1	120.7	195.2	789.8	546.9	214.6	162.4	104.3
82.5°	52.2	74.5	160.9	134.1	61.1	79.0	244.4	152.0	67.1	53.6	44.7
85°	20.9	32.8	90.9	89.4	35.8	26.8	68.6	46.2	26.8	22.4	20.9
87.5°	1.5	1.5	49.2	34.3	22.4	7.5	10.4	10.4	13.4	11.9	14.9
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°	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6	1579.6
2.5°	1618.4	1636.3	1639.2	1688.4	1698.9	1688.4	1715.2	1710.8	1722.7	1713.8	1697.4
5°	1655.6	1681.0	1730.1	1767.4	1767.4	1737.6	1713.8	1682.5	1636.3	1624.3	1615.4
7.5°	1719.7	1800.2	1844.9	1821.0	1773.4	1661.6	1506.6	1393.4	1298.0	1262.2	1245.8
10°	1833.0	1877.7	1929.8	1833.0	1634.8	1397.8	1137.0	965.7	831.5	801.7	779.4
12.5°	1906.0	1977.5	2007.3	1767.4	1378.5	1025.3	742.1	548.4	454.5	383.0	371.1
15°	2001.4	2083.3	2022.2	1590.1	1086.4	672.1	384.5	239.9	195.2	183.3	183.3
17.5°	2066.9	2156.3	1961.1	1369.5	770.4	357.7	190.7	165.4	162.4	163.9	160.9
20°	2181.7	2235.3	1868.7	1113.2	460.5	183.3	153.5	147.5	144.6	149.0	146.0
22.5°	2224.9	2274.1	1718.2	806.2	207.1	122.2	114.7	110.3	113.3	111.8	110.3
25°	2221.9	2247.3	1470.8	462.0	61.1	47.7	43.2	43.2	40.2	41.7	40.2
27.5°	2244.3	2181.7	1193.7	137.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2256.2	2075.9	849.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2262.2	2020.7	546.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2308.3	1910.5	234.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2339.6	1768.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2469.3	1724.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2637.7	1640.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2871.7	1517.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3181.6	1444.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3412.6	1329.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3706.2	1260.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4054.9	1263.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4372.3	1242.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4534.7	1062.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4500.5	859.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4381.2	675.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4299.3	597.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4050.4	478.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3223.3	327.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2050.5	201.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	944.8	92.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	296.6	56.6	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	77.5	35.8	11.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.2	25.3	10.4	4.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.3	10.4	4.5	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.4	6.0	3.0	3.0	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)