

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: P482778

Luminaire Tested: **IFLD-M-SA4A-730-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482778  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-730-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

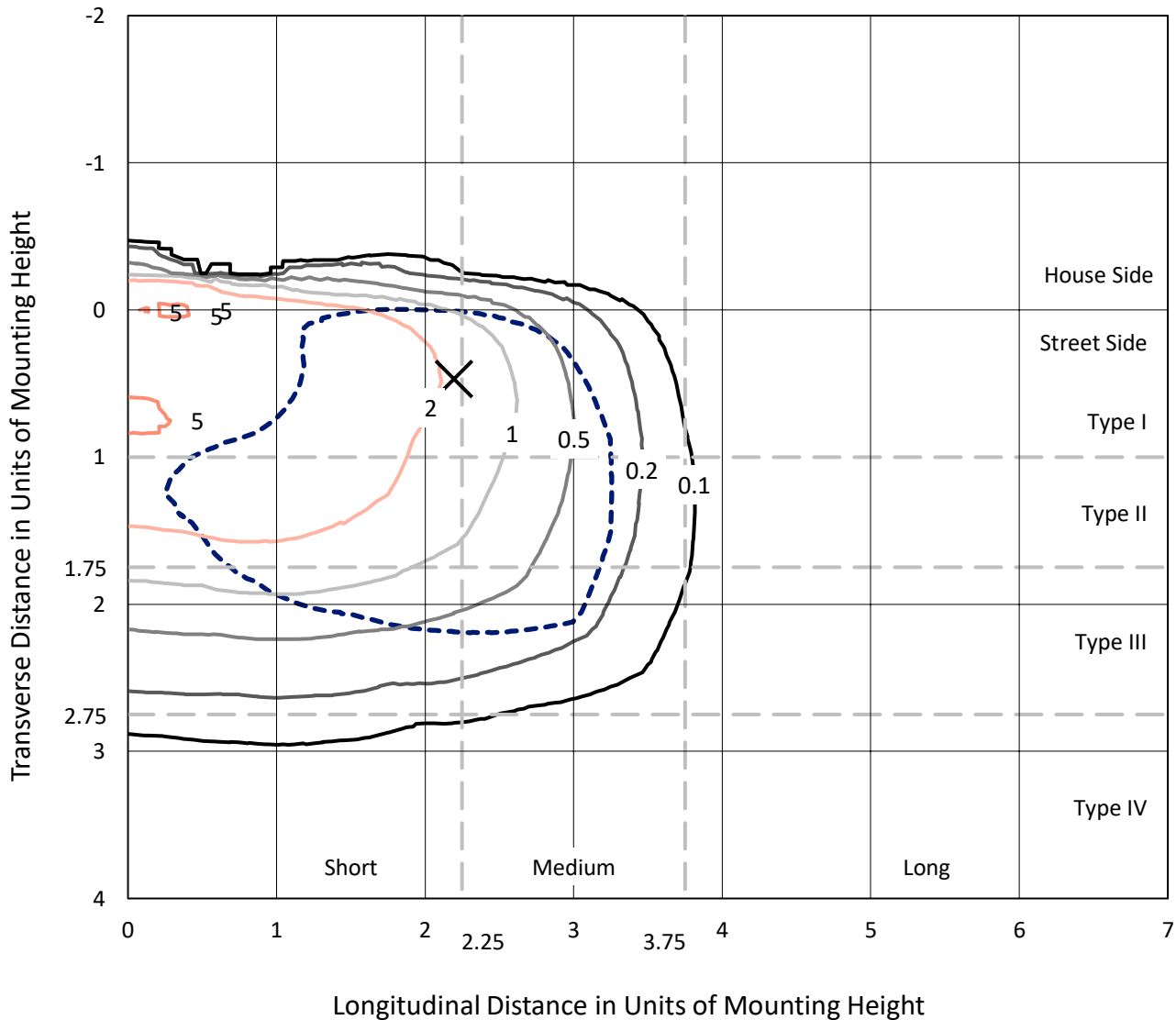
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12054.3 lumens  
Efficiency: N/A  
Efficacy: 93.7 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): 128.6  
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

REPORT NUMBER: P482778  
 CATALOG NUMBER: IFLD-M-SA4A-730-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

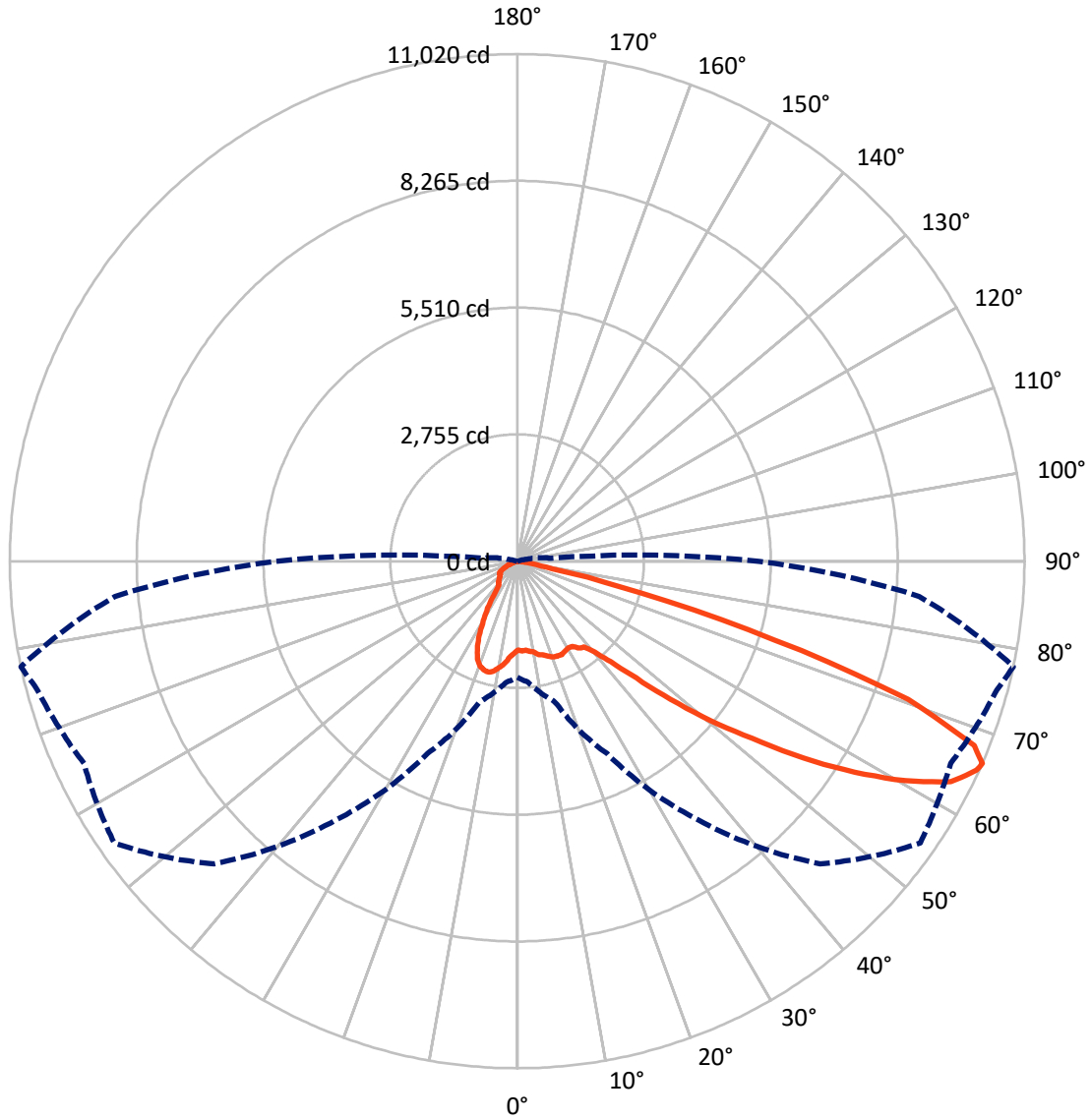
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc  
 Type III - Short - N/A

REPORT NUMBER: P482778  
CATALOG NUMBER: IFLD-M-SA4A-730-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P482778  
 CATALOG NUMBER: IFLD-M-SA4A-730-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	847.5	0.0	847.5
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	11206.8	0.0	11206.8
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	12054.3	0.0	12054.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.6	1.5
10°-20°	398.7	3.3
20°-30°	569.9	4.7
30°-40°	975.5	8.1
40°-50°	1760.7	14.6
50°-60°	3011.0	25.0
60°-70°	3706.0	30.7
70°-80°	1401.1	11.6
80°-90°	54.7	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°	12054.3	100.0
0°-180°	12054.3	100.0

**Coefficient of Utilization**

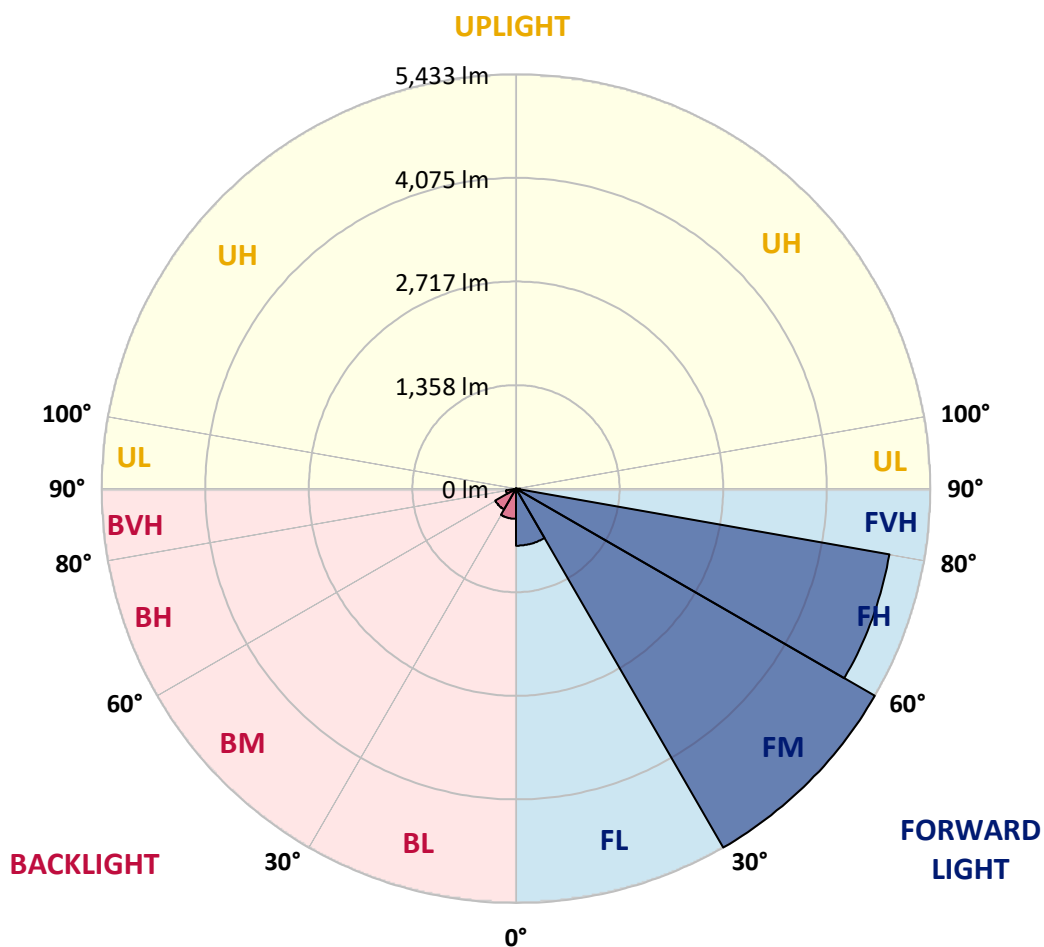


REPORT NUMBER: P482778  
 CATALOG NUMBER: IFLD-M-SA4A-730-U-T3R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	748.3	6.2			
FM (30°-60°)	5433.1	45.1			
FH (60°-80°)	4972.8	41.3			G2/5000
FVH (80°-90°)	52.5	0.4			G1/100
BL (0°-30°)	396.9	3.3	B1/500		
BM (30°-60°)	314.1	2.6	B1/1000		
BH (60°-80°)	134.3	1.1	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 III Short





REPORT NUMBER: P482778

CATALOG NUMBER: IFLD-M-SA4A-730-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7
2.5°	1775.9	1759.5	1775.9	1799.6	1812.3	1823.2	1861.5	1894.3	1928.9	1952.6	1945.3
5°	1646.6	1677.5	1681.2	1688.5	1708.5	1774.1	1795.9	1852.4	1938.0	1945.3	1978.1
7.5°	1544.6	1535.5	1559.1	1606.5	1657.5	1695.7	1759.5	1857.9	1947.1	1978.1	2041.8
10°	1397.0	1415.2	1440.7	1488.1	1550.0	1644.7	1757.7	1867.0	1994.5	2005.4	2123.8
12.5°	1316.9	1298.7	1338.7	1387.9	1493.6	1581.0	1719.4	1850.6	2023.6	2083.7	2220.3
15°	1251.3	1260.4	1298.7	1331.5	1418.9	1530.0	1692.1	1890.6	2072.8	2114.7	2322.3
17.5°	1224.0	1218.5	1247.7	1280.5	1387.9	1513.6	1681.2	1892.5	2116.5	2171.1	2391.5
20°	1236.7	1247.7	1238.6	1269.5	1336.9	1464.4	1697.6	1927.1	2149.3	2224.0	2466.2
22.5°	1437.1	1422.5	1349.7	1291.4	1295.0	1444.4	1684.8	1948.9	2178.4	2238.5	2517.2
25°	1959.9	1881.5	1701.2	1477.2	1329.6	1389.7	1670.2	1941.6	2173.0	2247.6	2548.2
27.5°	2486.2	2418.9	2242.2	1894.3	1469.9	1367.9	1619.2	1947.1	2145.6	2214.9	2497.2
30°	3041.8	3078.2	2815.9	2402.5	1837.8	1488.1	1586.5	1918.0	2127.4	2185.7	2508.1
32.5°	3611.9	3597.3	3438.8	2990.8	2364.2	1754.0	1639.3	1947.1	2151.1	2207.6	2571.8
35°	4058.1	4007.1	3846.8	3442.5	2799.5	2154.7	1821.4	2085.5	2254.9	2322.3	2662.9
37.5°	4278.5	4300.4	4207.5	3856.0	3276.7	2526.3	2049.1	2085.5	2287.7	2366.0	2810.5
40°	4449.7	4515.3	4480.7	4367.8	3750.3	2945.2	2300.5	2214.9	2453.5	2601.0	3087.3
42.5°	4655.6	4624.6	4828.6	4724.8	4369.6	3473.5	2741.2	2522.7	2845.1	2987.1	3502.6
45°	4764.8	4883.2	5038.1	5171.0	4943.3	4132.8	3316.8	3067.3	3444.3	3624.6	4120.1
47.5°	5045.3	5092.7	5344.1	5511.6	5409.6	4886.9	4191.1	3863.2	4198.4	4482.5	4826.8
50°	5209.3	5145.5	5497.1	5752.1	5810.3	5511.6	4974.3	4719.3	5094.5	5457.0	5487.9
52.5°	5065.4	5247.5	5599.1	6056.2	6218.3	6069.0	5894.1	5783.0	6047.1	6382.3	6232.9
55°	4560.8	4684.7	5540.8	6389.6	6912.3	6843.1	7005.2	6932.3	7198.3	7553.4	7103.6
57.5°	4154.7	4309.5	5061.7	6562.6	7558.9	7762.9	7966.9	7921.4	8241.9	8651.8	7841.2
60°	3901.5	3990.7	4715.7	6518.9	7941.4	8713.7	9174.5	8853.9	9376.7	9690.0	8418.6
62.5°	3462.5	3519.0	4211.1	5939.7	8056.2	9385.8	10167.2	9731.9	10185.4	10567.9	8833.9
65°	2775.8	2928.8	3500.8	5072.7	7298.4	9509.7	10786.5	10274.6	10713.6	10965.0	8959.6
66°	2526.3	2637.4	3162.0	4613.7	6866.8	9303.8	10682.6	10387.6	10790.1	11019.6	8766.5
67.5°	2096.5	2193.0	2610.1	3959.8	5983.4	8850.3	10755.5	10311.1	10848.4	10708.1	8507.9
70°	1387.9	1449.9	1785.0	2677.5	4167.4	7240.2	9975.9	9713.7	9537.0	9010.6	6651.8
72.5°	648.4	737.7	1114.7	1622.9	2444.4	5065.4	8134.5	7782.9	6688.3	5846.8	4196.6
75°	293.2	333.3	612.0	930.7	1096.5	2624.7	5247.5	4739.3	3329.6	2764.9	1837.8
77.5°	158.5	180.3	298.7	442.6	398.9	919.8	2597.3	2160.2	1049.1	768.6	533.7
80°	122.0	143.9	249.5	253.2	147.5	238.6	965.4	668.5	262.3	198.5	127.5
82.5°	63.7	91.1	196.7	163.9	74.7	96.5	298.7	185.8	82.0	65.6	54.6
85°	25.5	40.1	111.1	109.3	43.7	32.8	83.8	56.5	32.8	27.3	25.5
87.5°	1.8	1.8	60.1	41.9	27.3	9.1	12.7	12.7	16.4	14.6	18.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P482778  
 CATALOG NUMBER: IFLD-M-SA4A-730-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7	1930.7
2.5°	1978.1	1999.9	2003.6	2063.7	2076.4	2063.7	2096.5	2091.0	2105.6	2094.6	2074.6
5°	2023.6	2054.6	2114.7	2160.2	2160.2	2123.8	2094.6	2056.4	1999.9	1985.4	1974.4
7.5°	2101.9	2200.3	2254.9	2225.8	2167.5	2030.9	1841.5	1703.0	1586.5	1542.7	1522.7
10°	2240.4	2295.0	2358.7	2240.4	1998.1	1708.5	1389.7	1180.3	1016.4	979.9	952.6
12.5°	2329.6	2417.0	2453.5	2160.2	1684.8	1253.1	907.1	670.3	555.5	468.1	453.5
15°	2446.2	2546.4	2471.7	1943.5	1327.8	821.5	469.9	293.2	238.6	224.0	224.0
17.5°	2526.3	2635.6	2397.0	1673.9	941.7	437.1	233.1	202.2	198.5	200.4	196.7
20°	2666.6	2732.1	2284.1	1360.6	562.8	224.0	187.6	180.3	176.7	182.1	178.5
22.5°	2719.4	2779.5	2100.1	985.4	253.2	149.4	140.2	134.8	138.4	136.6	134.8
25°	2715.7	2746.7	1797.7	564.6	74.7	58.3	52.8	52.8	49.2	51.0	49.2
27.5°	2743.1	2666.6	1459.0	167.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2757.6	2537.2	1038.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2764.9	2469.9	668.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2821.4	2335.1	286.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2859.6	2162.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3018.1	2107.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3223.9	2005.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3509.9	1854.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3888.7	1765.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4171.1	1624.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4529.9	1540.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4956.1	1544.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5344.1	1519.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5542.6	1298.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5500.7	1051.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5355.0	825.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5254.8	730.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4950.6	584.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3939.7	400.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2506.3	245.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1154.8	112.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	362.5	69.2	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	94.7	43.7	14.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.2	31.0	12.7	5.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.0	12.7	5.5	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.3	7.3	3.6	3.6	1.8	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)