

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: P481622

Luminaire Tested: **IFLD-S-SA2A-735-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481622  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-735-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

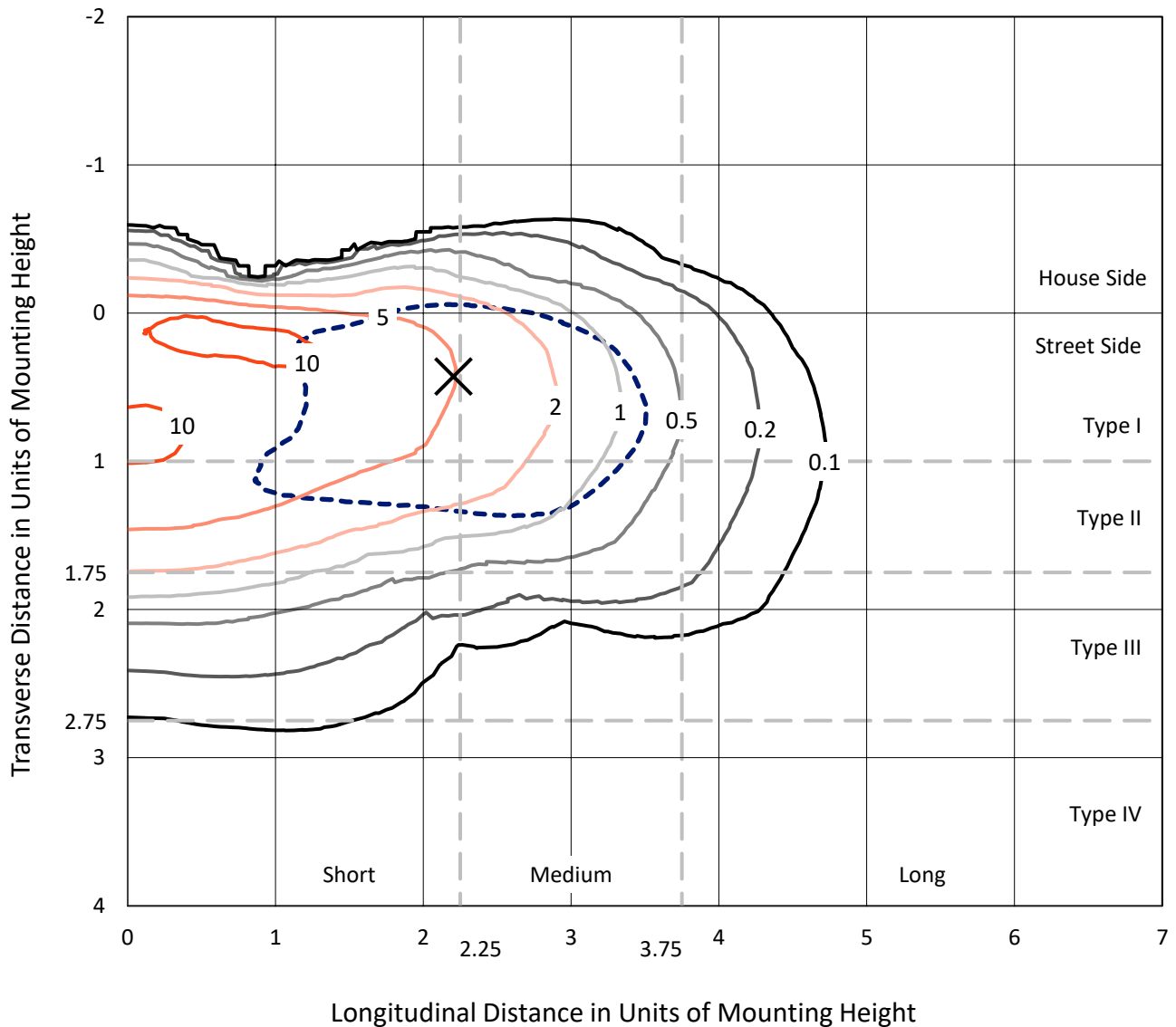
Lumens per Lamp: N/A  
Luminaire Lumens: 6557.4 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
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

REPORT NUMBER: P481622  
 CATALOG NUMBER: IFLD-S-SA2A-735-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

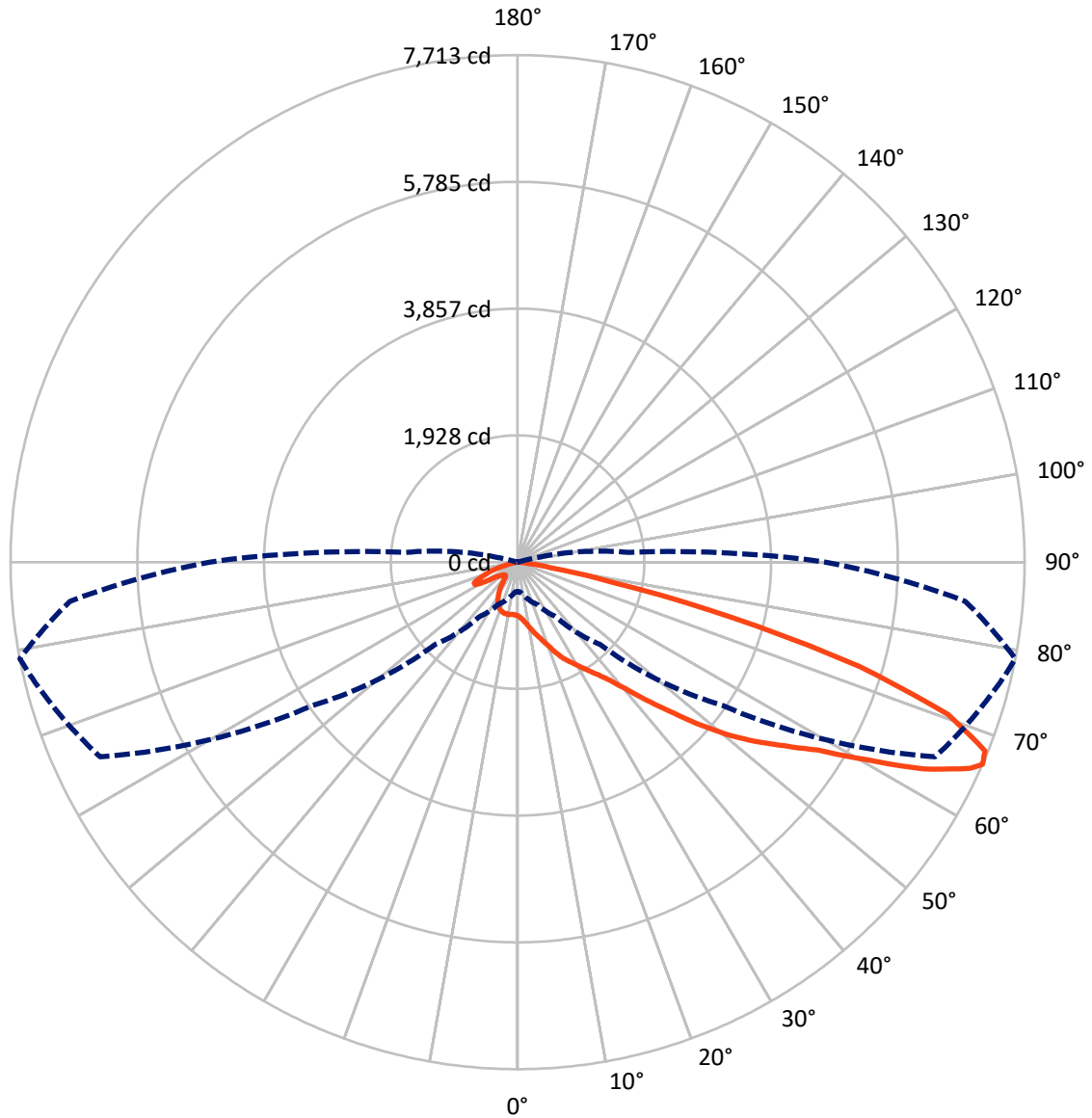
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P481622  
CATALOG NUMBER: IFLD-S-SA2A-735-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P481622  
 CATALOG NUMBER: IFLD-S-SA2A-735-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	492.4	0.0	492.4
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	6065.0	0.0	6065.0
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	6557.4	0.0	6557.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.2	1.2
10°-20°	212.3	3.2
20°-30°	352.7	5.4
30°-40°	605.9	9.2
40°-50°	1097.6	16.7
50°-60°	1735.0	26.5
60°-70°	1765.5	26.9
70°-80°	673.3	10.3
80°-90°	37.7	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°	6557.4	100.0
0°-180°	6557.4	100.0

**Coefficient of Utilization**



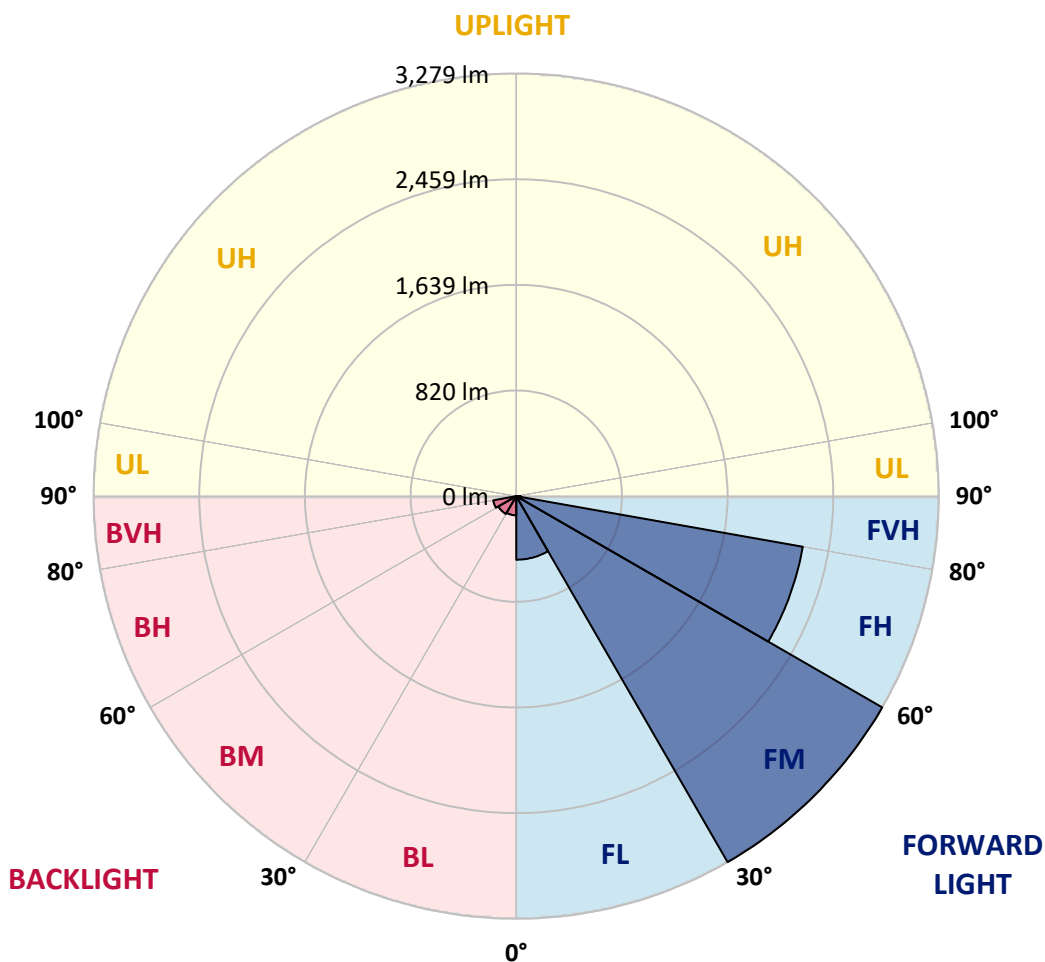
REPORT NUMBER: P481622  
 CATALOG NUMBER: IFLD-S-SA2A-735-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	493.3	7.5			
FM (30°-60°)	3278.5	50.0			
FH (60°-80°)	2257.3	34.4			G2/5000
FVH (80°-90°)	35.8	0.5			G1/100
BL (0°-30°)	148.9	2.3	B1/500		
BM (30°-60°)	160.0	2.4	B0/220		
BH (60°-80°)	181.5	2.8	B1/500		G1/500
BVH (80°-90°)	1.9	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





REPORT NUMBER: P481622

CATALOG NUMBER: IFLD-S-SA2A-735-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	815.8	815.8	815.8	815.8	815.8	815.8	815.8	815.8	815.8	815.8	815.8
2.5°	924.0	923.0	918.9	911.9	902.8	899.7	886.6	868.4	858.3	847.2	842.1
5°	987.7	982.6	994.8	989.7	991.7	967.5	951.3	938.1	899.7	884.6	860.3
7.5°	1001.8	1006.9	1005.9	1014.0	1022.0	1031.1	1020.0	1000.8	962.4	940.2	913.9
10°	1001.8	999.8	1007.9	1019.0	1042.3	1062.5	1092.8	1067.5	1038.2	1011.9	964.4
12.5°	983.6	980.6	988.7	1011.9	1053.4	1094.8	1128.2	1152.5	1111.0	1089.8	1028.1
15°	928.0	925.0	958.4	999.8	1054.4	1122.1	1191.9	1231.3	1203.0	1169.6	1100.9
17.5°	859.3	863.3	898.7	967.5	1054.4	1135.3	1224.2	1310.2	1306.1	1263.7	1191.9
20°	836.0	839.1	874.5	924.0	1023.1	1144.4	1274.8	1396.1	1420.4	1369.8	1275.8
22.5°	880.5	877.5	880.5	910.8	1001.8	1136.3	1308.1	1494.2	1537.6	1498.2	1386.0
25°	1032.2	1030.1	1004.9	958.4	989.7	1118.1	1325.3	1558.8	1658.9	1622.5	1474.9
27.5°	1254.6	1246.5	1207.0	1110.0	1046.3	1129.2	1353.6	1621.5	1765.1	1723.6	1554.8
30°	1493.1	1473.9	1422.4	1301.1	1192.9	1170.7	1369.8	1668.0	1883.4	1830.8	1624.6
32.5°	1657.9	1683.2	1667.0	1543.7	1377.9	1266.7	1396.1	1726.7	1992.5	1958.2	1743.8
35°	1912.7	1942.0	1874.3	1765.1	1598.3	1419.3	1451.7	1774.2	2160.4	2102.7	1855.1
37.5°	2234.1	2256.4	2207.9	2000.6	1824.7	1607.4	1565.9	1873.2	2304.9	2277.6	1997.6
40°	2395.9	2503.1	2434.3	2247.3	2058.2	1870.2	1755.0	1989.5	2556.6	2534.4	2194.7
42.5°	2619.3	2672.9	2637.5	2499.0	2301.9	2151.3	1988.5	2216.0	2861.9	2861.9	2461.6
45°	2855.9	2857.9	2855.9	2742.6	2567.8	2489.9	2303.9	2500.0	3190.5	3226.9	2781.1
47.5°	3050.0	3110.6	3105.6	3037.8	2902.4	2873.1	2619.3	2823.5	3602.9	3666.6	3092.4
50°	3150.0	3217.8	3238.0	3273.4	3267.3	3329.0	2964.0	3198.6	3958.8	4115.5	3492.8
52.5°	3122.8	3127.8	3252.2	3391.7	3614.1	3786.9	3379.5	3624.2	4375.3	4530.0	3802.1
55°	2899.3	2880.1	3135.9	3295.6	3755.6	4067.0	3954.7	4154.9	4699.8	4935.3	4121.5
57.5°	2409.0	2414.1	2650.7	2975.2	3650.5	4178.2	4569.4	4848.4	5154.7	5392.3	4570.4
60°	1663.0	1656.9	1921.8	2296.8	3032.8	3970.9	4923.2	5747.1	5763.3	6099.9	5376.1
62.5°	935.1	937.1	1138.3	1458.8	2121.9	3245.1	4906.0	6701.4	6632.7	6927.9	6292.0
65°	529.7	542.9	681.4	864.3	1270.7	2178.5	4219.6	7081.5	7302.9	7565.8	6848.0
66°	447.8	456.9	575.2	713.7	1014.0	1767.1	3798.1	7007.7	7513.2	7713.4	6836.9
67.5°	346.7	358.9	457.9	566.1	744.0	1223.2	3057.0	6640.8	7551.6	7668.9	6643.8
70°	237.6	245.7	321.5	429.6	508.5	625.8	1827.8	5490.3	6852.1	6951.1	5774.4
72.5°	166.8	170.8	225.4	325.5	391.2	357.9	906.8	3906.2	5243.7	5436.8	4491.5
75°	120.3	124.3	154.7	233.5	305.3	234.5	415.5	2495.0	3215.8	3367.4	2705.2
77.5°	86.9	92.0	105.1	150.6	221.4	164.8	204.2	1303.1	1516.4	1490.1	1163.6
80°	52.6	57.6	77.8	97.0	161.7	116.3	112.2	543.9	537.8	510.5	366.0
82.5°	24.3	28.3	41.4	65.7	113.2	80.9	53.6	194.1	169.8	155.7	103.1
85°	7.1	9.1	24.3	49.5	57.6	39.4	32.3	66.7	69.8	59.6	34.4
87.5°	0.0	1.0	11.1	12.1	17.2	13.1	12.1	17.2	32.3	26.3	11.1
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: P481622  
 CATALOG NUMBER: IFLD-S-SA2A-735-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	815.8	815.8	815.8	815.8	815.8	815.8	815.8	815.8	815.8	815.8	815.8
2.5°	823.9	816.8	799.6	773.4	750.1	738.0	720.8	705.6	697.5	696.5	695.5
5°	844.1	824.9	783.5	736.0	700.6	662.2	635.9	616.7	598.5	581.3	591.4
7.5°	871.4	841.1	773.4	711.7	634.9	585.3	538.8	511.5	495.4	480.2	478.2
10°	913.9	875.5	766.3	655.1	567.1	494.3	446.8	407.4	385.2	358.9	369.0
12.5°	971.5	902.8	740.0	603.5	490.3	413.5	345.7	282.0	246.7	219.4	220.4
15°	1029.1	939.2	715.7	540.8	420.5	319.5	220.4	176.9	166.8	160.7	162.8
17.5°	1085.7	968.5	678.3	477.2	340.7	203.2	160.7	151.6	146.6	140.5	140.5
20°	1154.5	987.7	631.8	418.5	234.5	150.6	137.5	131.4	123.3	115.2	116.3
22.5°	1221.2	1003.9	578.3	343.7	157.7	130.4	115.2	107.2	100.1	92.0	92.0
25°	1287.9	1008.9	508.5	246.7	127.4	104.1	90.0	78.9	71.8	64.7	65.7
27.5°	1333.4	977.6	442.8	157.7	102.1	78.9	62.7	53.6	47.5	40.4	40.4
30°	1359.7	919.9	372.0	111.2	76.8	53.6	37.4	28.3	22.2	17.2	16.2
32.5°	1386.0	873.4	292.2	84.9	50.5	28.3	14.2	5.1	0.0	0.0	0.0
35°	1438.5	820.9	196.1	47.5	17.2	1.0	0.0	0.0	0.0	0.0	0.0
37.5°	1471.9	748.1	90.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1555.8	711.7	22.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1692.3	686.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1841.9	676.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2041.1	703.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2251.3	777.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2481.8	847.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2683.0	931.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3053.0	1129.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3717.2	1518.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4465.3	1807.5	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4739.2	1800.5	19.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4690.7	1701.4	19.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4439.0	1511.3	17.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3812.2	1248.5	17.2	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2906.4	972.5	16.2	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1754.0	517.6	13.1	5.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	698.6	182.0	10.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	189.0	54.6	6.1	4.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.5	20.2	5.1	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	19.2	8.1	4.0	3.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
87.5°	6.1	3.0	3.0	2.0	2.0	1.0	1.0	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)