

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: P481505

Luminaire Tested: **IFLD-S-SA2A-722-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481505  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-722-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

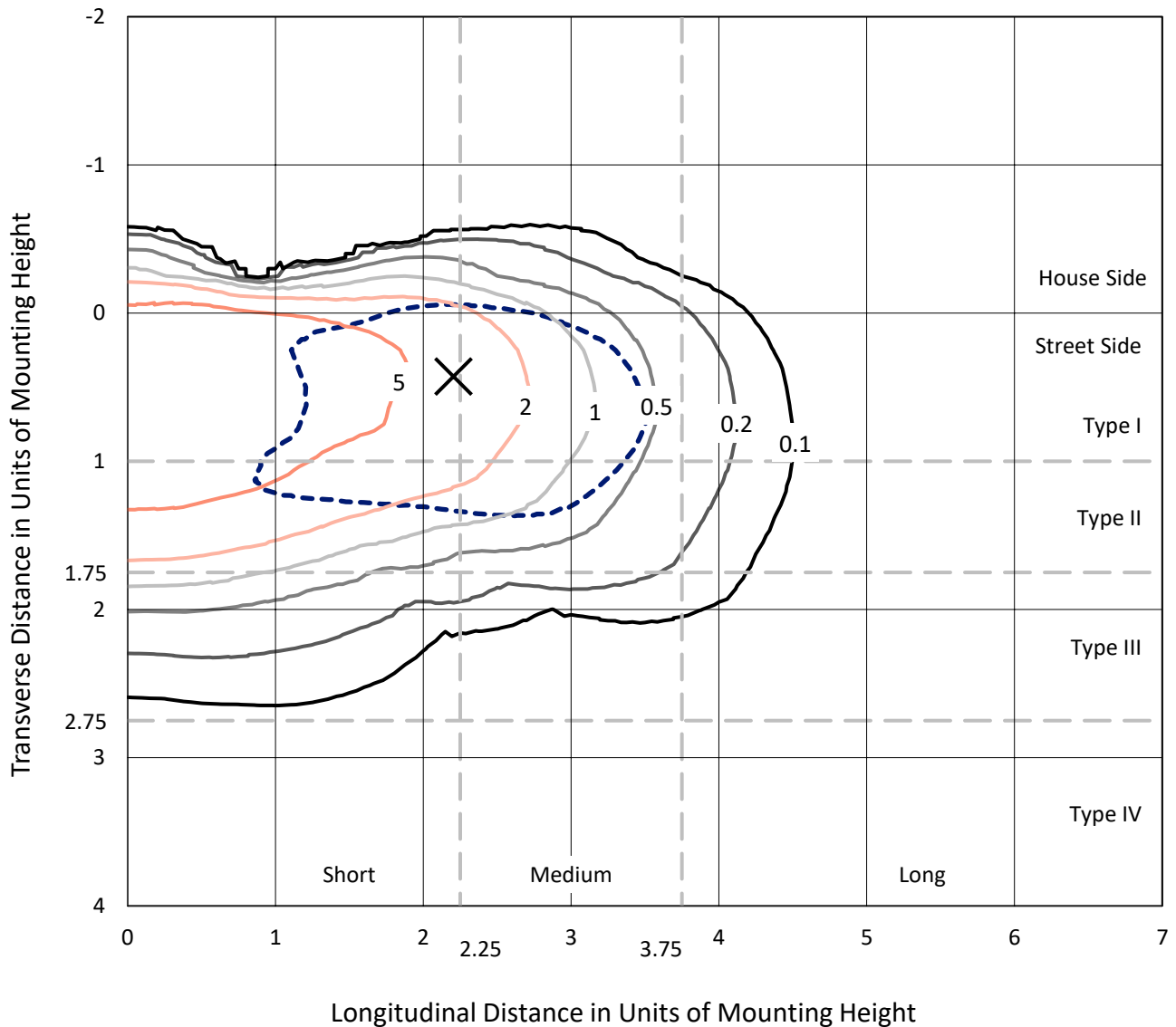
Lumens per Lamp: N/A  
Luminaire Lumens: 4897.3 lumens  
Efficiency: N/A  
Efficacy: 76.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

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 CATALOG NUMBER: IFLD-S-SA2A-722-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

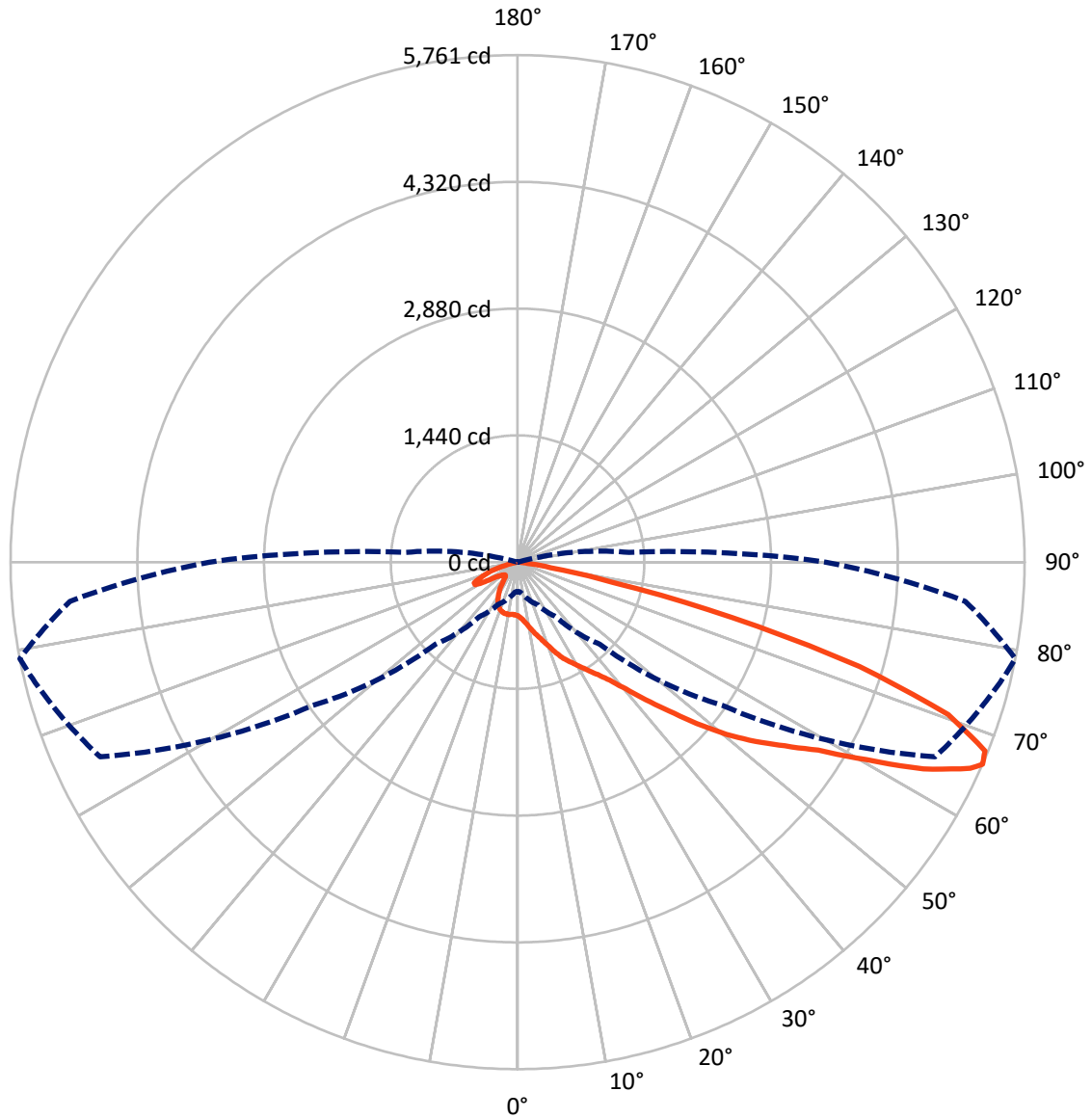
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P481505  
CATALOG NUMBER: IFLD-S-SA2A-722-U-T2-HSS

### 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
<b>House Side</b>	Lumens	367.7	0.0	367.7
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	4529.5	0.0	4529.5
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	4897.3	0.0	4897.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.6	1.2
10°-20°	158.6	3.2
20°-30°	263.4	5.4
30°-40°	452.5	9.2
40°-50°	819.8	16.7
50°-60°	1295.8	26.5
60°-70°	1318.6	26.9
70°-80°	502.8	10.3
80°-90°	28.2	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°	4897.3	100.0
0°-180°	4897.3	100.0

**Coefficient of Utilization**



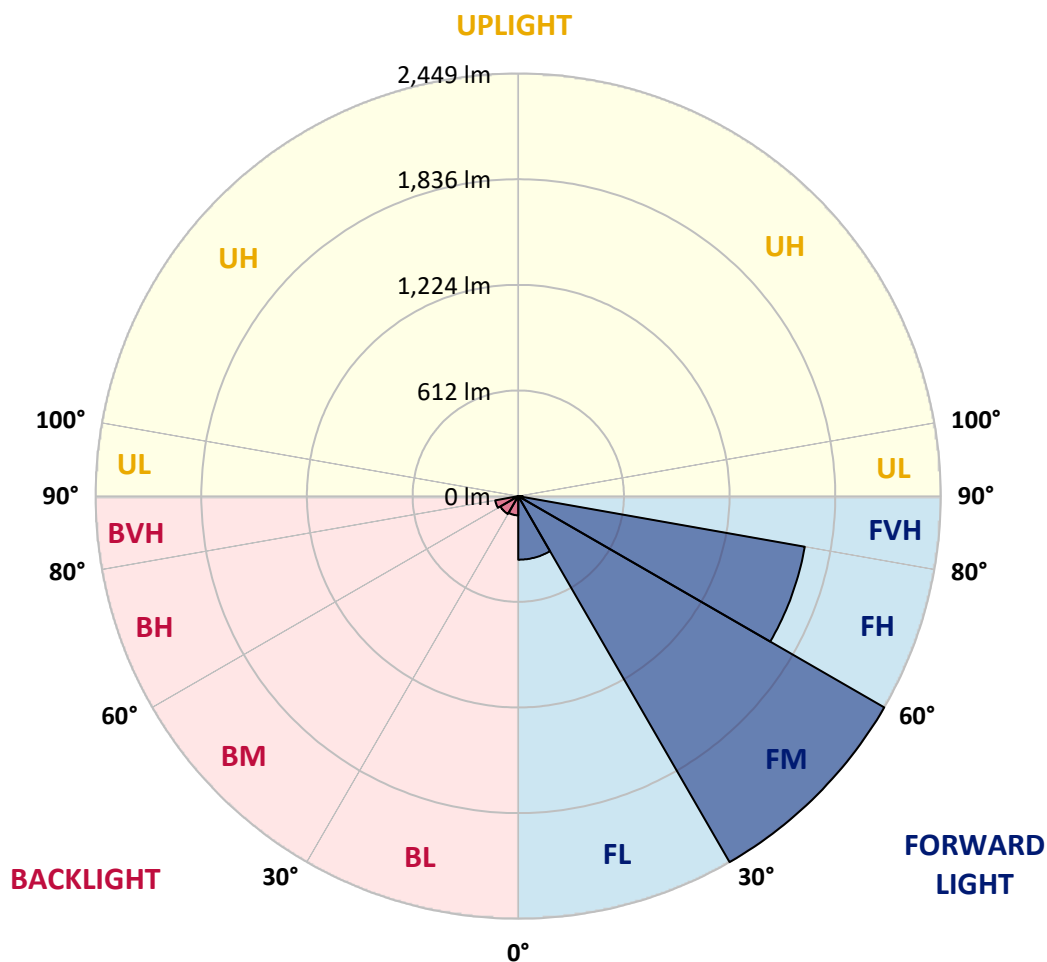
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 CATALOG NUMBER: IFLD-S-SA2A-722-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	368.4	7.5			
FM (30°-60°)	2448.5	50.0			
FH (60°-80°)	1685.8	34.4			G1/1800
FVH (80°-90°)	26.7	0.5			G1/100
BL (0°-30°)	111.2	2.3	B1/500		
BM (30°-60°)	119.5	2.4	B0/220		
BH (60°-80°)	135.6	2.8	B1/500		G1/500
BVH (80°-90°)	1.4	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-G1**

Type II Short





REPORT NUMBER: P481505

CATALOG NUMBER: IFLD-S-SA2A-722-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3
2.5°	690.1	689.3	686.3	681.0	674.2	671.9	662.1	648.5	641.0	632.7	628.9
5°	737.6	733.9	742.9	739.1	740.6	722.5	710.4	700.6	671.9	660.6	642.5
7.5°	748.2	752.0	751.2	757.3	763.3	770.1	761.8	747.4	718.8	702.1	682.5
10°	748.2	746.7	752.7	761.0	778.4	793.5	816.1	797.3	775.4	755.7	720.3
12.5°	734.6	732.3	738.4	755.7	786.7	817.7	842.6	860.7	829.7	813.9	767.8
15°	693.1	690.8	715.7	746.7	787.5	838.0	890.1	919.6	898.4	873.5	822.2
17.5°	641.7	644.8	671.2	722.5	787.5	847.9	914.3	978.5	975.4	943.7	890.1
20°	624.4	626.6	653.1	690.1	764.1	854.7	952.0	1042.6	1060.8	1023.0	952.8
22.5°	657.6	655.3	657.6	680.2	748.2	848.6	977.0	1115.9	1148.3	1118.9	1035.1
25°	770.8	769.3	750.5	715.7	739.1	835.0	989.8	1164.2	1238.9	1211.8	1101.5
27.5°	936.9	930.9	901.5	829.0	781.4	843.3	1010.9	1211.0	1318.2	1287.3	1161.2
30°	1115.1	1100.8	1062.3	971.7	890.9	874.3	1023.0	1245.7	1406.6	1367.3	1213.3
32.5°	1238.2	1257.1	1245.0	1152.9	1029.1	946.0	1042.6	1289.5	1488.1	1462.4	1302.4
35°	1428.4	1450.3	1399.8	1318.2	1193.6	1060.0	1084.2	1325.0	1613.4	1570.4	1385.4
37.5°	1668.5	1685.1	1648.9	1494.1	1362.8	1200.4	1169.5	1399.0	1721.4	1701.0	1491.9
40°	1789.3	1869.4	1818.0	1678.3	1537.2	1396.7	1310.7	1485.8	1909.4	1892.8	1639.1
42.5°	1956.2	1996.2	1969.8	1866.3	1719.1	1606.6	1485.1	1654.9	2137.4	2137.4	1838.4
45°	2132.9	2134.4	2132.9	2048.3	1917.7	1859.5	1720.6	1867.1	2382.8	2409.9	2077.0
47.5°	2277.8	2323.1	2319.3	2268.8	2167.6	2145.7	1956.2	2108.7	2690.8	2738.4	2309.5
50°	2352.6	2403.1	2418.2	2444.7	2440.1	2486.2	2213.6	2388.8	2956.5	3073.6	2608.5
52.5°	2332.2	2335.9	2428.8	2533.0	2699.1	2828.2	2523.9	2706.6	3267.6	3383.1	2839.5
55°	2165.3	2151.0	2342.0	2461.3	2804.8	3037.3	2953.5	3103.0	3510.0	3685.9	3078.1
57.5°	1799.1	1802.9	1979.6	2221.9	2726.3	3120.4	3412.6	3620.9	3849.7	4027.1	3413.3
60°	1242.0	1237.4	1435.2	1715.3	2265.0	2965.6	3676.8	4292.1	4304.2	4555.6	4015.0
62.5°	698.4	699.9	850.1	1089.5	1584.7	2423.5	3664.0	5004.8	4953.5	5174.0	4699.1
65°	395.6	405.4	508.9	645.5	949.0	1627.0	3151.3	5288.7	5454.1	5650.4	5114.3
66°	334.5	341.3	429.6	533.0	757.3	1319.7	2836.5	5233.6	5611.1	5760.6	5106.0
67.5°	259.0	268.0	342.0	422.8	555.7	913.5	2283.1	4959.5	5639.8	5727.4	4961.8
70°	177.4	183.5	240.1	320.9	379.8	467.3	1365.0	4100.4	5117.3	5191.3	4312.5
72.5°	124.6	127.6	168.4	243.1	292.2	267.3	677.2	2917.3	3916.1	4060.3	3354.4
75°	89.8	92.9	115.5	174.4	228.0	175.2	310.3	1863.3	2401.6	2514.9	2020.4
77.5°	64.9	68.7	78.5	112.5	165.3	123.1	152.5	973.2	1132.5	1112.9	869.0
80°	39.3	43.0	58.1	72.5	120.8	86.8	83.8	406.2	401.7	381.3	273.3
82.5°	18.1	21.1	31.0	49.1	84.6	60.4	40.0	145.0	126.8	116.3	77.0
85°	5.3	6.8	18.1	37.0	43.0	29.4	24.2	49.8	52.1	44.5	25.7
87.5°	0.0	0.8	8.3	9.1	12.8	9.8	9.1	12.8	24.2	19.6	8.3
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: P481505  
 CATALOG NUMBER: IFLD-S-SA2A-722-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3
2.5°	615.3	610.0	597.2	577.6	560.2	551.1	538.3	527.0	520.9	520.2	519.4
5°	630.4	616.1	585.1	549.6	523.2	494.5	474.9	460.5	447.0	434.1	441.7
7.5°	650.8	628.2	577.6	531.5	474.1	437.1	402.4	382.0	369.9	358.6	357.1
10°	682.5	653.8	572.3	489.2	423.6	369.2	333.7	304.3	287.7	268.0	275.6
12.5°	725.5	674.2	552.7	450.7	366.2	308.8	258.2	210.6	184.2	163.8	164.6
15°	768.6	701.4	534.5	403.9	314.1	238.6	164.6	132.1	124.6	120.0	121.6
17.5°	810.9	723.3	506.6	356.4	254.4	151.8	120.0	113.2	109.5	104.9	104.9
20°	862.2	737.6	471.9	312.6	175.2	112.5	102.7	98.1	92.1	86.1	86.8
22.5°	912.0	749.7	431.9	256.7	117.8	97.4	86.1	80.0	74.7	68.7	68.7
25°	961.9	753.5	379.8	184.2	95.1	77.8	67.2	58.9	53.6	48.3	49.1
27.5°	995.8	730.1	330.7	117.8	76.3	58.9	46.8	40.0	35.5	30.2	30.2
30°	1015.5	687.0	277.8	83.0	57.4	40.0	27.9	21.1	16.6	12.8	12.1
32.5°	1035.1	652.3	218.2	63.4	37.7	21.1	10.6	3.8	0.0	0.0	0.0
35°	1074.4	613.1	146.5	35.5	12.8	0.8	0.0	0.0	0.0	0.0	0.0
37.5°	1099.3	558.7	67.2	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1161.9	531.5	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1263.9	512.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1375.6	505.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1524.3	525.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	1681.4	580.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	1853.5	632.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2003.7	695.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2280.1	843.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2776.1	1134.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3334.8	1349.9	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3539.4	1344.6	14.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	3503.2	1270.7	14.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3315.2	1128.7	12.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	2847.1	932.4	12.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2170.6	726.3	12.1	3.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	1309.9	386.6	9.8	3.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	521.7	135.9	7.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	141.2	40.8	4.5	3.0	2.3	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	37.0	15.1	3.8	3.0	1.5	0.8	0.0	0.0	0.0	0.0	0.0
85°	14.3	6.0	3.0	2.3	2.3	1.5	0.8	0.0	0.0	0.0	0.0
87.5°	4.5	2.3	2.3	1.5	1.5	0.8	0.8	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)