

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: P481702

Luminaire Tested: **IFLD-S-SA2C-750-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481702
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-750-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

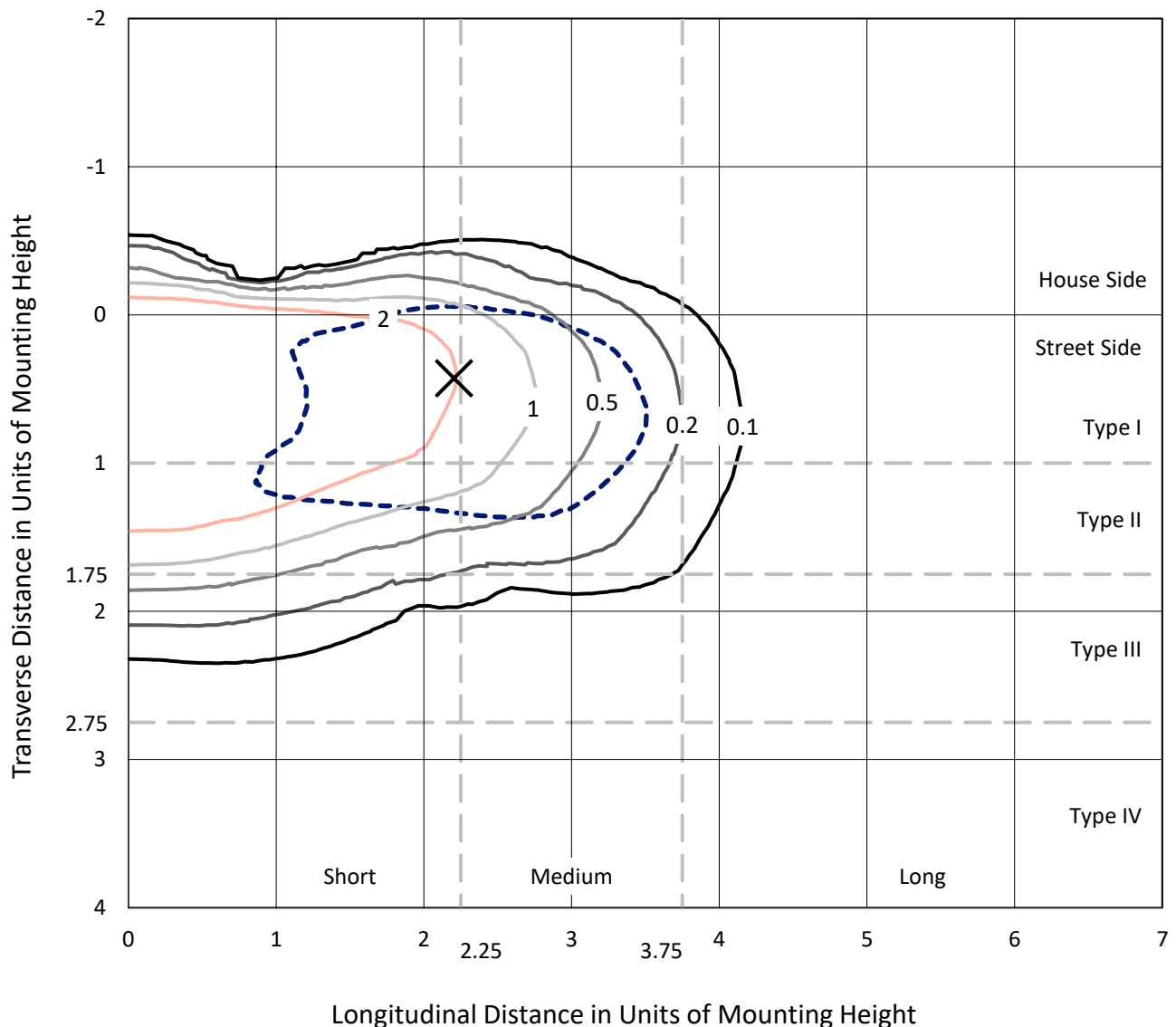
Lumens per Lamp: N/A
Luminaire Lumens: 10470 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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: P481702
 CATALOG NUMBER: IFLD-S-SA2C-750-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

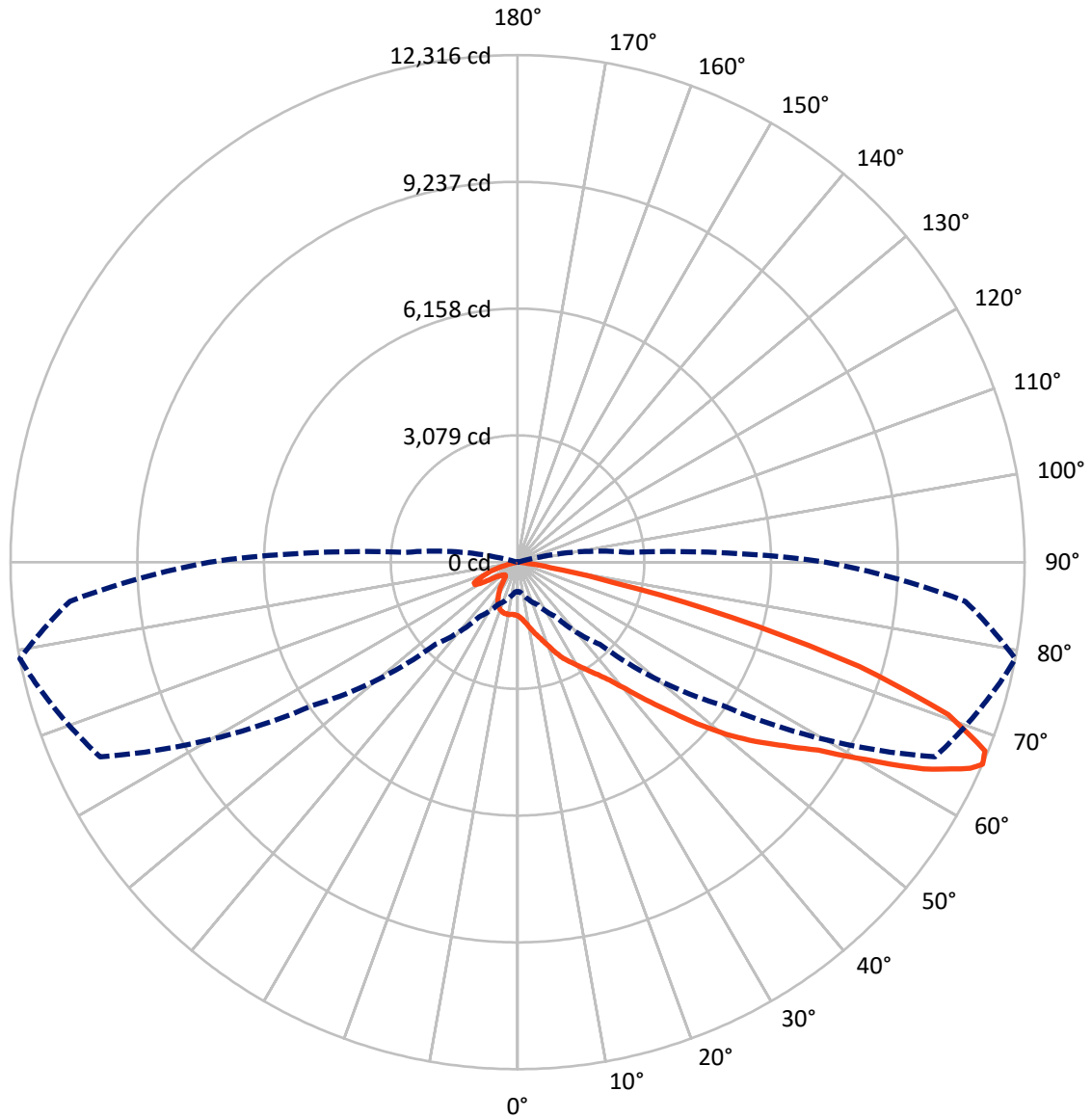
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

REPORT NUMBER: P481702
CATALOG NUMBER: IFLD-S-SA2C-750-U-T2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P481702
 CATALOG NUMBER: IFLD-S-SA2C-750-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	786.1	0.0	786.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	9683.9	0.0	9683.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	10470.0	0.0	10470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	1.2
10°-20°	339.0	3.2
20°-30°	563.2	5.4
30°-40°	967.4	9.2
40°-50°	1752.6	16.7
50°-60°	2770.3	26.5
60°-70°	2819.0	26.9
70°-80°	1075.0	10.3
80°-90°	60.3	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°	10470.0	100.0
0°-180°	10470.0	100.0

Coefficient of Utilization

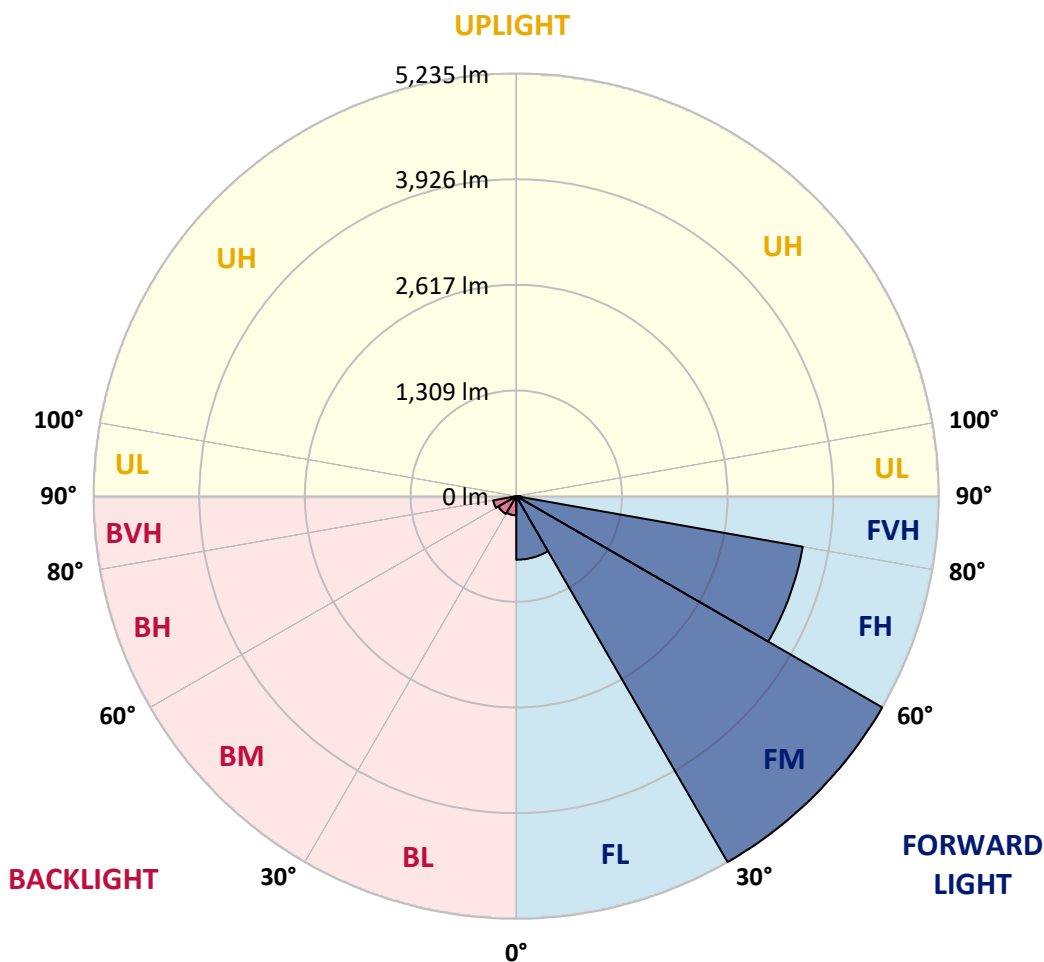


REPORT NUMBER: P481702
 CATALOG NUMBER: IFLD-S-SA2C-750-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	787.7	7.5			
FM (30°-60°)	5234.8	50.0			
FH (60°-80°)	3604.2	34.4			G2/5000
FVH (80°-90°)	57.2	0.5			G1/100
BL (0°-30°)	237.8	2.3	B1/500		
BM (30°-60°)	255.5	2.4	B1/1000		
BH (60°-80°)	289.8	2.8	B1/500		G1/500
BVH (80°-90°)	3.1	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: P481702

CATALOG NUMBER: IFLD-S-SA2C-750-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1302.6	1302.6	1302.6	1302.6	1302.6	1302.6	1302.6	1302.6	1302.6	1302.6	1302.6
2.5°	1475.3	1473.7	1467.2	1455.9	1441.4	1436.6	1415.6	1386.5	1370.4	1352.6	1344.6
5°	1577.0	1568.9	1588.3	1580.2	1583.5	1544.7	1518.9	1497.9	1436.6	1412.4	1373.6
7.5°	1599.6	1607.7	1606.0	1619.0	1631.9	1646.4	1628.6	1598.0	1536.6	1501.1	1459.2
10°	1599.6	1596.4	1609.3	1627.0	1664.2	1696.4	1744.9	1704.5	1657.7	1615.7	1539.9
12.5°	1570.5	1565.7	1578.6	1615.7	1681.9	1748.1	1801.4	1840.1	1773.9	1740.0	1641.6
15°	1481.8	1476.9	1530.2	1596.4	1683.5	1791.7	1903.0	1966.0	1920.8	1867.5	1757.8
17.5°	1372.0	1378.5	1435.0	1544.7	1683.5	1812.7	1954.7	2091.9	2085.4	2017.6	1903.0
20°	1334.9	1339.7	1396.2	1475.3	1633.5	1827.2	2035.4	2229.1	2267.8	2187.1	2037.0
22.5°	1405.9	1401.1	1405.9	1454.3	1599.6	1814.3	2088.7	2385.7	2455.1	2392.1	2213.0
25°	1648.0	1644.8	1604.4	1530.2	1580.2	1785.2	2116.1	2489.0	2648.8	2590.7	2355.0
27.5°	2003.1	1990.2	1927.3	1772.3	1670.6	1803.0	2161.3	2589.0	2818.3	2752.1	2482.5
30°	2384.1	2353.4	2271.1	2077.4	1904.7	1869.2	2187.1	2663.3	3007.1	2923.2	2593.9
32.5°	2647.2	2687.5	2661.7	2464.8	2200.0	2022.5	2229.1	2756.9	3181.4	3126.6	2784.4
35°	3053.9	3100.7	2992.6	2818.3	2551.9	2266.2	2317.9	2832.8	3449.4	3357.4	2961.9
37.5°	3567.2	3602.7	3525.2	3194.3	2913.5	2566.5	2500.3	2991.0	3680.2	3636.6	3189.5
40°	3825.5	3996.6	3886.8	3588.2	3286.3	2986.1	2802.1	3176.6	4082.1	4046.6	3504.3
42.5°	4182.2	4267.7	4211.2	3990.1	3675.4	3434.8	3175.0	3538.2	4569.6	4569.6	3930.4
45°	4559.9	4563.1	4559.9	4379.1	4099.9	3975.6	3678.6	3991.7	5094.2	5152.3	4440.4
47.5°	4869.8	4966.6	4958.6	4850.4	4634.1	4587.3	4182.2	4508.2	5752.7	5854.4	4937.6
50°	5029.6	5137.7	5170.0	5226.5	5216.8	5315.3	4732.6	5107.1	6320.9	6571.1	5576.8
52.5°	4986.0	4994.1	5192.6	5415.4	5770.5	6046.5	5396.0	5786.6	6985.9	7232.9	6070.7
55°	4629.3	4598.6	5007.0	5262.0	5996.5	6493.6	6314.4	6634.0	7504.0	7880.1	6580.8
57.5°	3846.4	3854.5	4232.2	4750.4	5828.6	6671.2	7295.8	7741.3	8230.4	8609.7	7297.4
60°	2655.2	2645.5	3068.4	3667.3	4842.4	6340.3	7860.8	9176.3	9202.1	9739.6	8583.9
62.5°	1493.1	1496.3	1817.5	2329.2	3388.0	5181.3	7833.3	10700.0	10590.2	11061.6	10046.3
65°	845.8	866.8	1087.9	1380.1	2028.9	3478.4	6737.3	11306.9	11660.4	12080.1	10934.0
66°	715.1	729.6	918.4	1139.6	1619.0	2821.5	6064.2	11189.1	11996.1	12315.7	10916.3
67.5°	553.6	573.0	731.2	903.9	1188.0	1953.1	4881.1	10603.2	12057.5	12244.7	10608.0
70°	379.3	392.2	513.3	686.0	811.9	999.1	2918.3	8766.3	10940.5	11098.7	9219.9
72.5°	266.3	272.8	359.9	519.7	624.7	571.4	1447.9	6237.0	8372.4	8680.7	7171.5
75°	192.1	198.5	247.0	372.9	487.5	374.5	663.4	3983.6	5134.5	5376.6	4319.4
77.5°	138.8	146.9	167.9	240.5	353.5	263.1	326.1	2080.6	2421.2	2379.2	1857.9
80°	83.9	92.0	124.3	155.0	258.3	185.6	179.2	868.4	858.7	815.1	584.3
82.5°	38.7	45.2	66.2	104.9	180.8	129.1	85.5	309.9	271.2	248.6	164.6
85°	11.3	14.5	38.7	79.1	92.0	63.0	51.7	106.5	111.4	95.2	54.9
87.5°	0.0	1.6	17.8	19.4	27.4	21.0	19.4	27.4	51.7	42.0	17.8
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: P481702
 CATALOG NUMBER: IFLD-S-SA2C-750-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1302.6	1302.6	1302.6	1302.6	1302.6	1302.6	1302.6	1302.6	1302.6	1302.6	1302.6
2.5°	1315.5	1304.2	1276.8	1234.8	1197.7	1178.3	1150.9	1126.7	1113.7	1112.1	1110.5
5°	1347.8	1317.1	1250.9	1175.1	1118.6	1057.2	1015.3	984.6	955.6	928.1	944.3
7.5°	1391.4	1342.9	1234.8	1136.3	1013.7	934.6	860.3	816.7	790.9	766.7	763.5
10°	1459.2	1397.8	1223.5	1045.9	905.5	789.3	713.4	650.5	615.0	573.0	589.2
12.5°	1551.2	1441.4	1181.5	963.6	782.8	660.2	552.0	450.3	393.8	350.3	351.9
15°	1643.2	1499.5	1142.8	863.6	671.5	510.1	351.9	282.5	266.3	256.6	259.9
17.5°	1733.6	1546.3	1083.1	761.9	544.0	324.4	256.6	242.1	234.0	224.4	224.4
20°	1843.3	1577.0	1008.8	668.2	374.5	240.5	219.5	209.8	196.9	184.0	185.6
22.5°	1949.9	1602.8	923.3	548.8	251.8	208.2	184.0	171.1	159.8	146.9	146.9
25°	2056.4	1610.9	811.9	393.8	203.4	166.3	143.7	125.9	114.6	103.3	104.9
27.5°	2129.0	1560.9	707.0	251.8	163.0	125.9	100.1	85.5	75.9	64.6	64.6
30°	2171.0	1468.8	594.0	177.6	122.7	85.5	59.7	45.2	35.5	27.4	25.8
32.5°	2213.0	1394.6	466.5	135.6	80.7	45.2	22.6	8.1	0.0	0.0	0.0
35°	2296.9	1310.7	313.1	75.9	27.4	1.6	0.0	0.0	0.0	0.0	0.0
37.5°	2350.2	1194.4	143.7	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2484.1	1136.3	35.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2702.0	1096.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2940.9	1079.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3258.9	1123.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3594.6	1241.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3962.7	1352.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4283.9	1486.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4874.6	1803.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5935.1	2424.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7129.6	2886.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7567.0	2874.7	30.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7489.5	2716.6	30.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7087.6	2413.1	27.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6086.8	1993.4	27.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4640.6	1552.8	25.8	6.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	2800.5	826.4	21.0	8.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1115.4	290.5	16.1	6.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	301.8	87.2	9.7	6.5	4.8	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	79.1	32.3	8.1	6.5	3.2	1.6	0.0	0.0	0.0	0.0	0.0
85°	30.7	12.9	6.5	4.8	4.8	3.2	1.6	0.0	0.0	0.0	0.0
87.5°	9.7	4.8	4.8	3.2	3.2	1.6	1.6	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)