

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: P482481

Luminaire Tested: **IFLD-S-SA2B-750-U-T3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482481
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3 distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

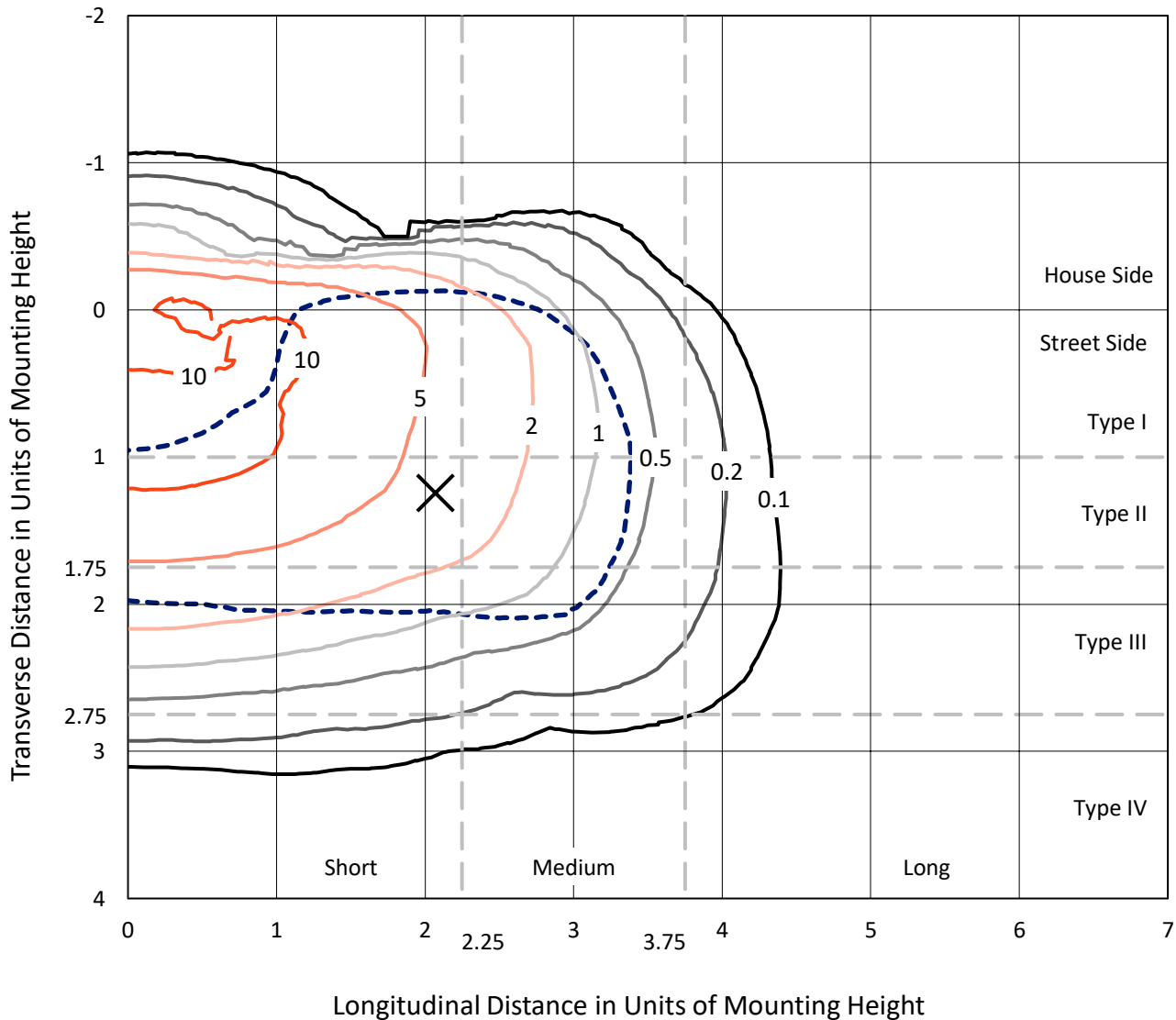
Lumens per Lamp: N/A
Luminaire Lumens: 8666.3 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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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Iso-Footcandle Lines of Horizontal Illumination

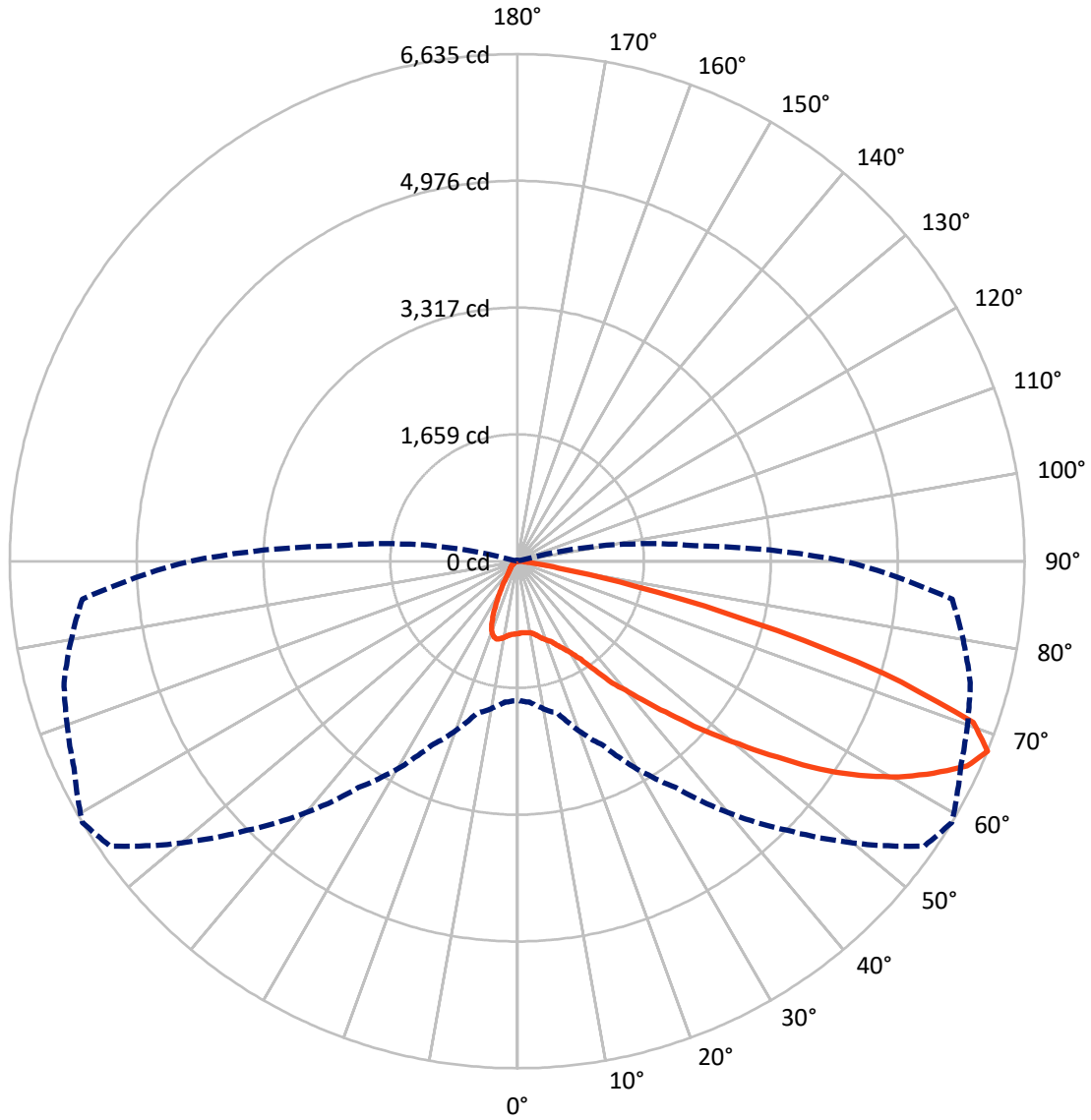
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1018.0	0.0	1018.0
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	7648.3	0.0	7648.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	8666.3	0.0	8666.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	1.0
10°-20°	260.8	3.0
20°-30°	455.8	5.3
30°-40°	802.6	9.3
40°-50°	1418.7	16.4
50°-60°	2246.2	25.9
60°-70°	2491.7	28.8
70°-80°	864.6	10.0
80°-90°	35.6	0.4
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°	8666.3	100.0
0°-180°	8666.3	100.0

Coefficient of Utilization

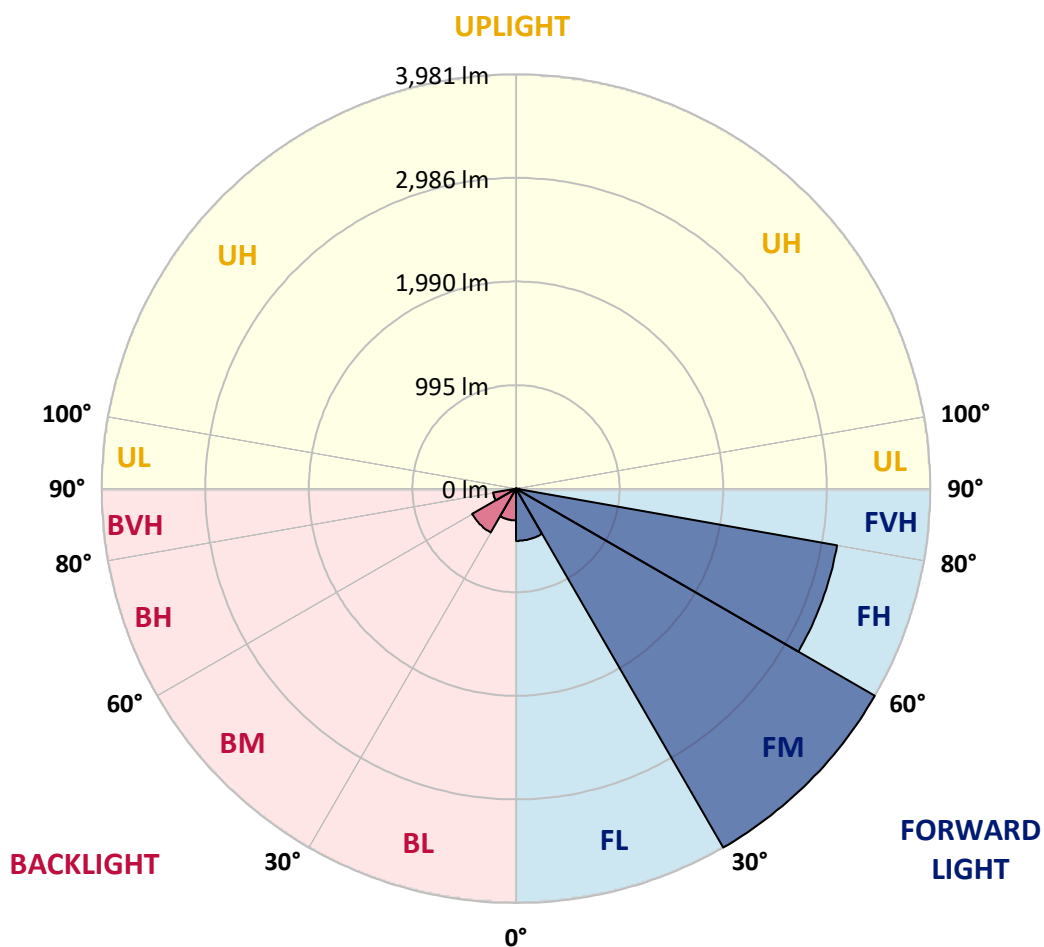


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	501.8	5.8			
FM (30°-60°)	3980.7	45.9			
FH (60°-80°)	3132.4	36.1			G2/5000
FVH (80°-90°)	33.3	0.4			G1/100
BL (0°-30°)	305.1	3.5	B1/500		
BM (30°-60°)	486.7	5.6	B1/1000		
BH (60°-80°)	223.9	2.6	B1/500		G1/500
BVH (80°-90°)	2.3	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°	59°	65°	75°	85°
0°	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5
2.5°	923.0	909.8	921.8	923.0	924.2	935.0	946.9	938.6	937.4	946.9	955.3
5°	885.9	879.9	894.3	901.5	913.4	923.0	942.2	943.4	944.5	955.3	969.7
7.5°	870.3	856.0	872.7	881.1	889.5	912.2	935.0	946.9	963.7	976.9	991.2
10°	839.2	850.0	854.8	869.1	893.1	919.4	946.9	952.9	990.0	1000.8	1035.5
12.5°	850.0	857.2	866.7	870.3	896.7	936.2	973.3	975.7	1014.0	1060.7	1078.6
15°	877.5	872.7	876.3	881.1	912.2	944.5	1004.4	1015.2	1051.1	1103.8	1148.1
17.5°	936.2	927.8	921.8	920.6	927.8	957.7	1028.3	1060.7	1094.2	1166.0	1188.8
20°	1083.4	1076.2	1052.3	990.0	968.5	980.5	1057.1	1102.6	1149.3	1229.5	1266.6
22.5°	1307.3	1314.5	1258.2	1170.8	1081.0	1034.3	1102.6	1142.1	1216.3	1318.1	1351.6
25°	1571.9	1557.5	1489.3	1387.5	1246.2	1136.1	1175.6	1219.9	1310.9	1394.7	1407.8
27.5°	1779.0	1762.2	1709.5	1586.2	1464.1	1285.7	1271.4	1298.9	1406.6	1482.1	1467.7
30°	1983.7	1989.7	1953.7	1807.7	1656.9	1468.9	1377.9	1389.9	1472.5	1569.5	1537.1
32.5°	2244.7	2230.3	2209.9	2081.8	1903.5	1702.3	1546.7	1527.6	1563.5	1691.6	1653.3
35°	2487.7	2479.3	2451.8	2322.5	2166.8	1947.8	1795.7	1752.6	1744.2	1886.7	1819.7
37.5°	2699.6	2685.2	2643.3	2560.7	2409.9	2225.5	2059.1	2020.8	2019.6	2117.8	1988.5
40°	2877.9	2888.7	2883.9	2792.9	2710.3	2563.1	2308.1	2247.0	2242.3	2294.9	2219.5
42.5°	3109.0	3134.1	3121.0	3103.0	3003.6	2946.2	2657.7	2564.3	2522.4	2630.1	2561.9
45°	3458.6	3468.1	3476.5	3432.2	3332.9	3344.8	3019.2	2907.9	2897.1	3057.5	2904.3
47.5°	3785.4	3760.2	3818.9	3821.3	3816.5	3761.4	3409.5	3326.9	3341.2	3463.3	3305.3
50°	3866.8	3931.4	4093.0	4123.0	4200.8	4251.1	3842.8	3760.2	3784.2	3923.1	3742.3
52.5°	3930.2	4028.4	4190.0	4409.1	4618.6	4738.3	4327.7	4260.6	4259.4	4344.4	4095.4
55°	4041.6	4101.4	4241.5	4543.2	4941.8	5138.2	4911.9	4804.2	4707.2	4767.0	4461.8
57.5°	4030.8	4053.5	4271.4	4643.7	5198.0	5554.8	5392.0	5289.0	5164.5	5129.8	4883.2
60°	3841.6	3895.5	4139.7	4575.5	5356.0	5879.2	5839.7	5734.3	5520.0	5438.6	5206.4
62.5°	3466.9	3538.8	3730.3	4336.1	5126.2	5896.0	6148.5	6109.0	5869.6	5723.6	5627.8
65°	2809.7	2843.2	3063.5	3727.9	4606.6	5638.6	6513.7	6464.6	6244.3	6026.4	5844.5
67.5°	1819.7	1852.0	2063.9	2661.3	3617.8	4974.1	6499.3	6634.6	6396.4	6134.2	5709.2
70°	859.6	851.2	1048.7	1478.5	2317.7	3798.5	6060.0	6326.9	6124.6	5560.7	4741.9
72.5°	262.2	284.9	435.8	654.8	1190.0	2369.2	4750.3	5000.5	4937.0	4442.6	3165.3
75°	116.1	125.7	171.2	268.2	482.5	972.1	2934.2	3156.9	3129.3	2620.6	1445.0
77.5°	74.2	81.4	107.7	153.2	219.1	308.9	1351.6	1568.3	1520.4	920.6	378.3
80°	52.7	56.3	76.6	105.3	137.7	126.9	465.7	553.1	530.3	250.2	101.8
82.5°	28.7	31.1	56.3	77.8	92.2	64.6	130.5	162.8	170.0	111.3	49.1
85°	10.8	13.2	34.7	55.1	47.9	29.9	38.3	46.7	61.1	61.1	22.7
87.5°	0.0	1.2	14.4	23.9	12.0	8.4	10.8	13.2	16.8	28.7	8.4
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°	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5	950.5
2.5°	961.3	952.9	956.5	962.5	949.3	956.5	942.2	952.9	956.5	942.2	949.3
5°	973.3	981.7	976.9	967.3	958.9	961.3	957.7	949.3	956.5	958.9	954.1
7.5°	1008.0	998.4	1000.8	990.0	973.3	972.1	949.3	943.4	945.7	948.1	939.8
10°	1040.3	1046.3	1034.3	1026.0	998.4	980.5	949.3	915.8	912.2	897.9	909.8
12.5°	1097.8	1083.4	1078.6	1051.1	1023.6	963.7	896.7	845.2	802.1	786.5	771.0
15°	1145.7	1143.3	1134.9	1093.0	1029.5	920.6	793.7	674.0	591.4	539.9	532.7
17.5°	1211.5	1200.7	1185.2	1119.3	985.3	808.1	591.4	440.6	357.9	325.6	313.7
20°	1261.8	1253.4	1231.9	1113.3	905.0	602.2	366.3	280.1	259.8	253.8	255.0
22.5°	1334.8	1308.5	1267.8	1083.4	759.0	401.0	263.4	250.2	246.6	241.8	243.0
25°	1398.3	1374.3	1289.3	1031.9	541.1	265.8	244.2	237.0	231.0	225.1	223.9
27.5°	1454.5	1424.6	1312.1	926.6	338.8	228.7	226.3	217.9	205.9	196.3	192.7
30°	1509.6	1474.9	1318.1	729.1	228.7	207.1	201.1	188.0	172.4	159.2	156.8
32.5°	1601.8	1559.9	1309.7	520.8	197.5	184.4	171.2	155.6	132.9	122.1	119.7
35°	1745.4	1682.0	1298.9	306.5	177.2	162.8	142.5	122.1	105.3	94.6	92.2
37.5°	1910.6	1800.5	1267.8	204.7	162.8	143.7	117.3	97.0	82.6	74.2	71.8
40°	2156.1	1974.1	1148.1	167.6	144.9	122.1	94.6	76.6	65.8	59.9	57.5
42.5°	2426.6	2172.8	963.7	150.8	128.1	104.2	75.4	62.3	53.9	47.9	47.9
45°	2751.0	2379.9	743.4	137.7	113.7	86.2	62.3	50.3	43.1	38.3	35.9
47.5°	3112.6	2567.9	501.6	124.5	95.8	70.6	51.5	38.3	31.1	27.5	27.5
50°	3435.8	2734.3	319.6	108.9	83.8	58.7	41.9	31.1	25.1	20.4	19.2
52.5°	3729.1	2861.2	220.3	95.8	71.8	47.9	34.7	25.1	19.2	15.6	15.6
55°	4029.6	2925.8	162.8	82.6	62.3	40.7	28.7	22.7	16.8	13.2	12.0
57.5°	4276.2	2953.4	124.5	71.8	52.7	32.3	25.1	19.2	14.4	10.8	9.6
60°	4486.9	2940.2	97.0	59.9	41.9	27.5	21.5	15.6	12.0	8.4	7.2
62.5°	4610.2	2861.2	76.6	51.5	33.5	23.9	18.0	13.2	8.4	6.0	4.8
65°	4612.6	2693.6	59.9	38.3	25.1	20.4	15.6	10.8	6.0	2.4	1.2
67.5°	4282.2	2330.8	47.9	29.9	20.4	15.6	12.0	8.4	2.4	0.0	0.0
70°	3349.6	1763.4	39.5	23.9	16.8	13.2	8.4	4.8	1.2	0.0	0.0
72.5°	2134.5	1055.9	32.3	19.2	14.4	9.6	6.0	3.6	0.0	0.0	0.0
75°	893.1	325.6	25.1	16.8	10.8	7.2	4.8	1.2	0.0	0.0	0.0
77.5°	229.9	103.0	20.4	14.4	10.8	6.0	3.6	1.2	0.0	0.0	0.0
80°	68.2	38.3	16.8	12.0	8.4	4.8	2.4	1.2	0.0	0.0	0.0
82.5°	31.1	22.7	14.4	10.8	7.2	4.8	2.4	0.0	0.0	0.0	0.0
85°	12.0	7.2	7.2	6.0	6.0	3.6	1.2	0.0	0.0	0.0	0.0
87.5°	4.8	2.4	2.4	2.4	1.2	1.2	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)