

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: P483573

Luminaire Tested: **IFLD-S-SA2B-735-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483573
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

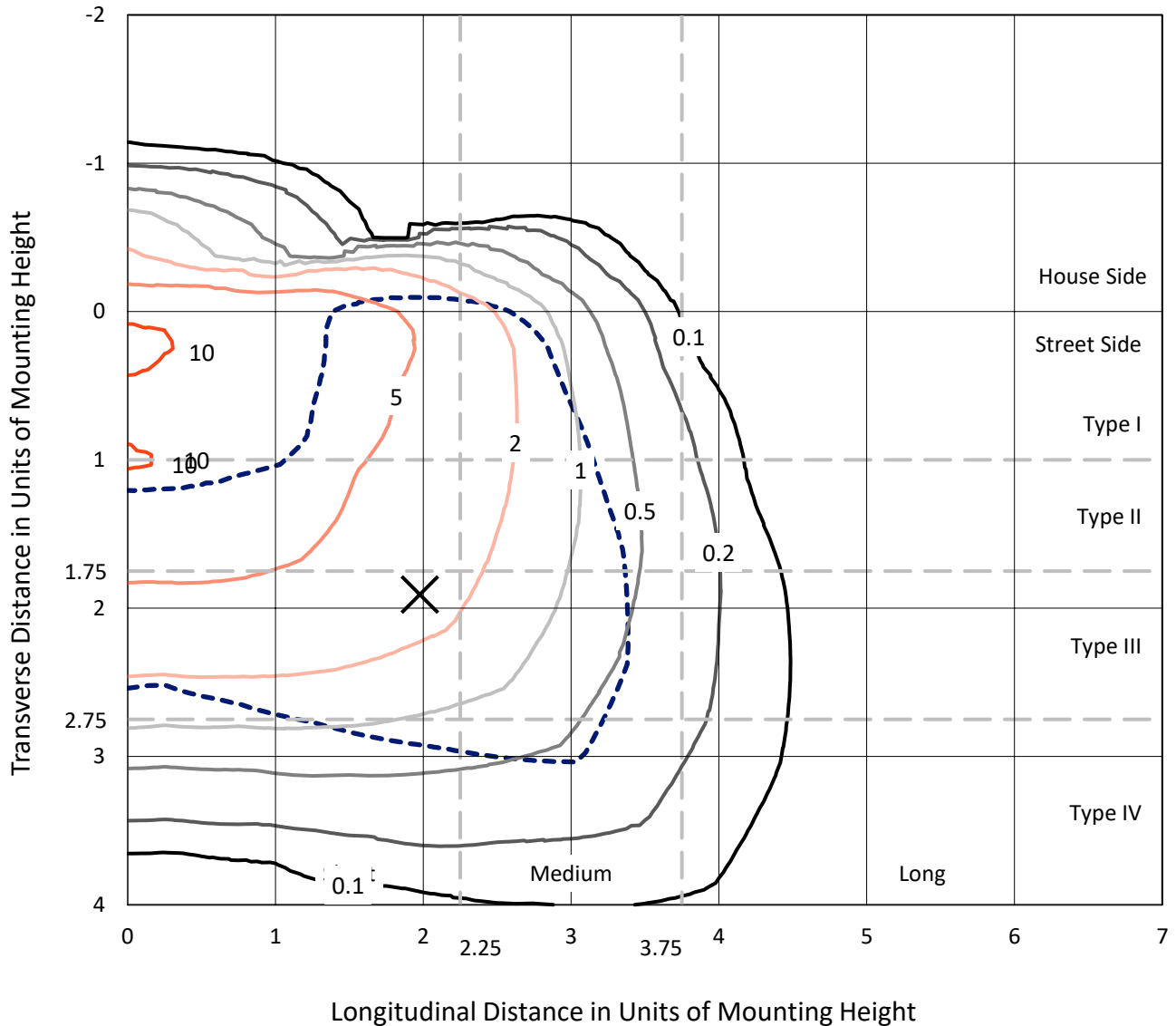
Lumens per Lamp: N/A
Luminaire Lumens: 8309 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P483573
 CATALOG NUMBER: IFLD-S-SA2B-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

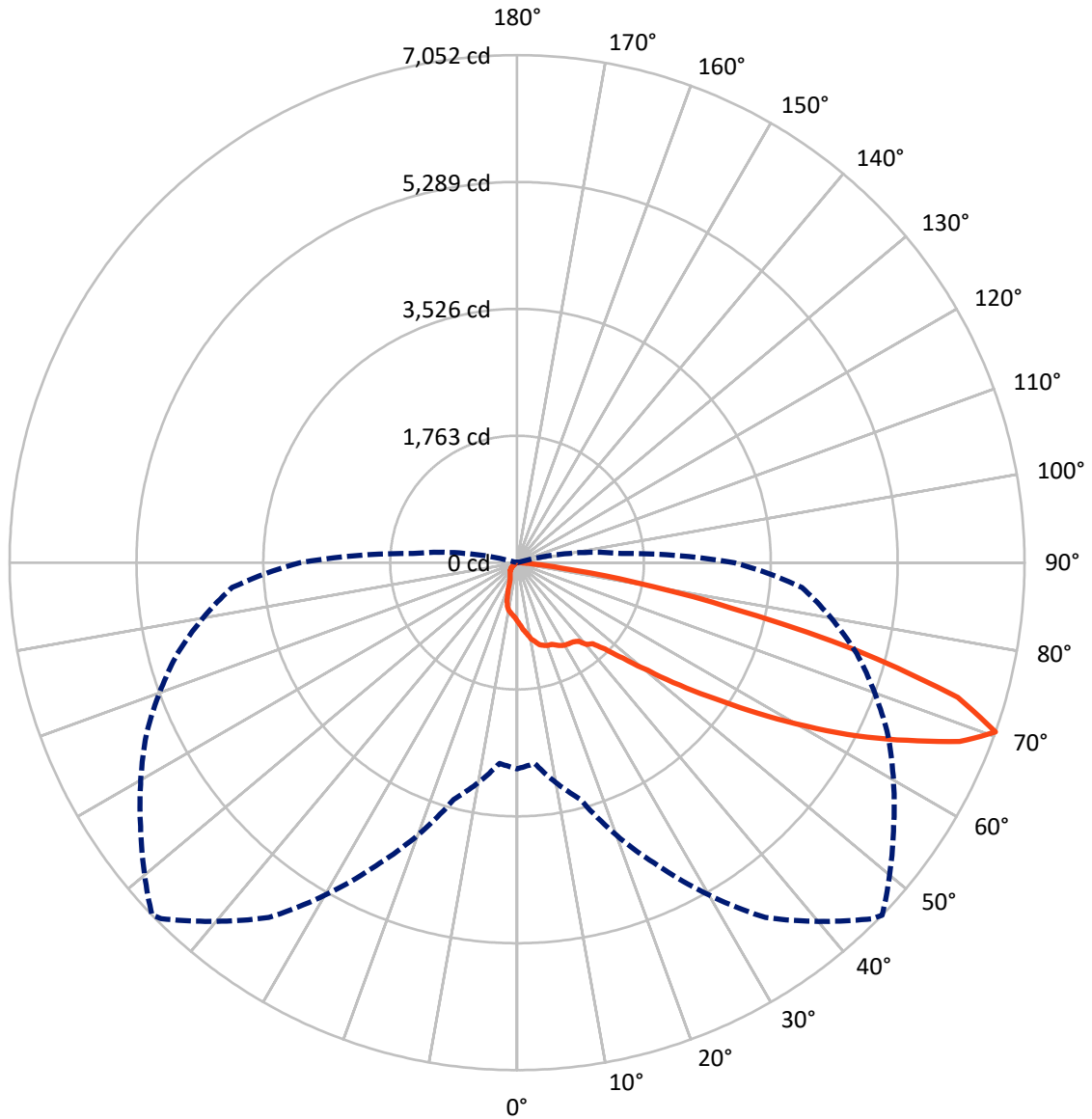
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P483573
CATALOG NUMBER: IFLD-S-SA2B-735-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P483573
 CATALOG NUMBER: IFLD-S-SA2B-735-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	826.8	0.0	826.8
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	7482.3	0.0	7482.3
	% Fixture	90.0	0.0	90.0
Total	Lumens	8309.0	0.0	8309.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	1.0
10°-20°	245.6	3.0
20°-30°	393.4	4.7
30°-40°	561.6	6.8
40°-50°	969.7	11.7
50°-60°	1856.5	22.3
60°-70°	2749.2	33.1
70°-80°	1361.7	16.4
80°-90°	90.0	1.1
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°	8309.0	100.0
0°-180°	8309.0	100.0

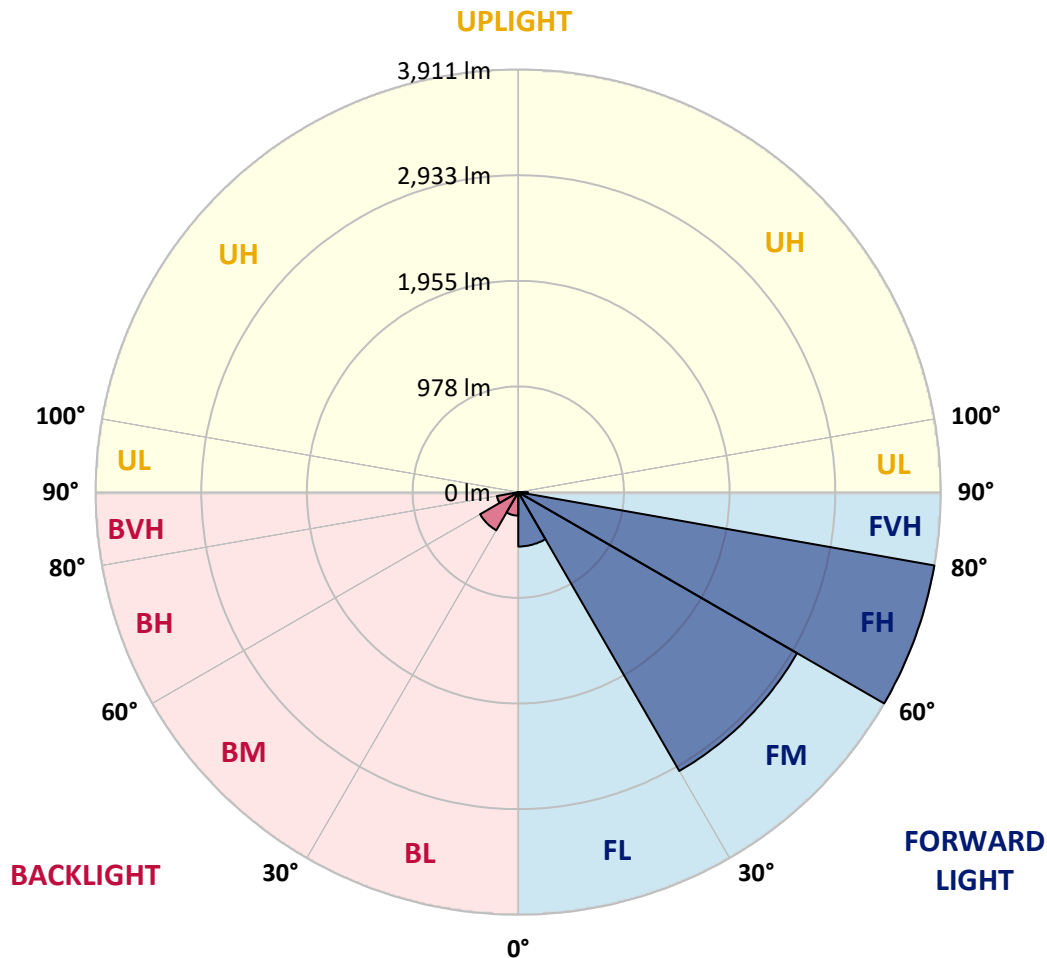


REPORT NUMBER: P483573
 CATALOG NUMBER: IFLD-S-SA2B-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	503.2	6.1			
FM (30°-60°)	2979.6	35.9			
FH (60°-80°)	3910.7	47.1			G2/5000
FVH (80°-90°)	88.8	1.1			G1/100
BL (0°-30°)	217.2	2.6	B1/500		
BM (30°-60°)	408.2	4.9	B1/1000		
BH (60°-80°)	200.2	2.4	B1/500		G1/500
BVH (80°-90°)	1.1	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 IV Short





REPORT NUMBER: P483573

CATALOG NUMBER: IFLD-S-SA2B-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7
2.5°	910.2	904.2	894.6	891.0	881.5	876.7	869.5	865.9	852.8	839.6	831.2
5°	1021.4	1007.1	1011.8	997.5	966.4	941.3	940.1	912.6	882.7	858.7	826.5
7.5°	1133.8	1121.9	1103.9	1083.6	1048.9	1011.8	1001.1	974.8	932.9	891.0	848.0
10°	1218.7	1210.4	1194.8	1166.1	1118.3	1076.4	1077.6	1033.4	989.1	941.3	882.7
12.5°	1271.4	1275.0	1252.2	1223.5	1181.7	1129.0	1127.8	1097.9	1047.7	997.5	928.1
15°	1324.0	1337.2	1302.5	1269.0	1215.2	1176.9	1184.1	1148.2	1099.1	1041.7	965.2
17.5°	1332.4	1336.0	1328.8	1279.7	1240.3	1208.0	1209.2	1185.3	1148.2	1086.0	1020.2
20°	1318.0	1315.6	1307.3	1271.4	1245.1	1225.9	1227.1	1221.1	1200.8	1150.6	1060.9
22.5°	1276.2	1276.2	1265.4	1241.5	1229.5	1247.5	1233.1	1255.8	1234.3	1204.4	1130.2
25°	1242.7	1255.8	1249.8	1234.3	1239.1	1263.0	1270.2	1291.7	1288.1	1251.0	1178.1
27.5°	1278.5	1263.0	1266.6	1248.6	1266.6	1302.5	1306.1	1321.6	1320.4	1290.5	1221.1
30°	1302.5	1316.8	1289.3	1249.8	1269.0	1330.0	1327.6	1347.9	1357.5	1321.6	1261.8
32.5°	1379.0	1367.1	1344.3	1291.7	1294.1	1328.8	1339.5	1365.9	1371.8	1350.3	1301.3
35°	1535.7	1517.8	1418.5	1339.5	1327.6	1344.3	1351.5	1402.9	1413.7	1389.8	1343.1
37.5°	1777.3	1736.6	1617.0	1442.4	1388.6	1385.0	1385.0	1453.2	1493.8	1438.8	1405.3
40°	2122.9	2065.5	1936.4	1632.6	1468.7	1483.1	1497.4	1534.5	1529.7	1493.8	1486.7
42.5°	2563.1	2518.8	2378.9	1951.9	1621.8	1550.0	1538.1	1588.3	1663.7	1649.3	1644.5
45°	2930.3	2932.6	2842.9	2389.7	1886.1	1704.3	1712.7	1751.0	1877.8	1867.0	1865.8
47.5°	3198.2	3164.7	3151.5	2811.8	2271.2	1997.4	1985.4	2011.7	2176.8	2244.9	2276.0
50°	3442.2	3419.4	3388.3	3222.1	2734.1	2364.5	2352.6	2355.0	2607.3	2703.0	2779.6
52.5°	3744.7	3773.5	3670.6	3568.9	3333.3	2841.7	2828.6	2781.9	3095.3	3226.9	3317.8
55°	4117.9	4064.1	3948.1	4000.7	3906.2	3357.2	3333.3	3278.3	3651.5	3706.5	3802.2
57.5°	4200.4	4159.8	4279.4	4465.9	4556.8	3962.4	3952.9	3853.6	4119.1	4068.9	4339.2
60°	4406.1	4416.9	4583.2	4953.9	5111.8	4660.9	4614.3	4439.6	4572.4	4582.0	4870.2
62.5°	4617.8	4592.7	4964.7	5321.1	5563.9	5322.3	5306.8	4959.9	5110.6	4988.6	5370.1
65°	4462.4	4500.6	5032.9	5629.7	6149.9	5969.3	5956.2	5461.0	5543.6	5391.7	5573.5
67.5°	3909.8	3832.1	4577.2	5488.5	6451.3	6647.5	6633.1	6007.6	5787.6	5389.3	5151.3
70°	2865.7	2798.7	3406.3	4647.7	6019.6	6994.3	7051.7	6388.0	5688.3	4886.9	3974.4
72.5°	1404.1	1405.3	1908.9	3151.5	4762.6	6374.8	6403.5	5856.9	4886.9	3602.4	2250.9
75°	415.0	419.8	706.8	1545.3	3078.6	4841.5	4873.8	4445.6	3387.1	1861.0	767.8
77.5°	151.9	151.9	234.4	580.1	1535.7	3055.8	3053.4	2729.3	1715.1	630.3	179.4
80°	78.9	82.5	122.0	236.8	665.0	1591.9	1651.7	1336.0	651.8	265.5	52.6
82.5°	32.3	35.9	67.0	122.0	319.3	558.5	611.2	523.9	283.5	185.4	23.9
85°	9.6	10.8	32.3	68.2	125.6	139.9	155.5	175.8	178.2	143.5	10.8
87.5°	1.2	1.2	13.2	22.7	27.5	29.9	34.7	34.7	90.9	100.5	6.0
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: P483573

CATALOG NUMBER: IFLD-S-SA2B-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7	815.7
2.5°	821.7	815.7	806.1	784.6	779.8	764.3	763.1	748.7	753.5	743.9	740.3
5°	815.7	802.5	776.2	759.5	742.7	732.0	724.8	718.8	717.6	712.8	710.4
7.5°	826.5	808.5	767.8	741.5	712.8	703.3	687.7	686.5	678.1	669.8	669.8
10°	862.3	830.0	785.8	741.5	704.5	673.4	637.5	611.2	601.6	580.1	582.5
12.5°	891.0	862.3	797.7	752.3	696.1	625.5	546.6	485.6	456.9	429.4	440.1
15°	931.7	889.8	820.5	754.7	663.8	541.8	412.6	344.5	318.1	312.2	311.0
17.5°	976.0	931.7	849.2	748.7	598.0	418.6	303.8	264.3	269.1	276.3	275.1
20°	1025.0	971.2	870.7	728.4	494.0	303.8	248.8	247.6	254.8	265.5	267.9
22.5°	1076.4	1029.8	897.0	667.4	368.4	244.0	239.2	239.2	244.0	257.1	254.8
25°	1133.8	1071.6	910.2	572.9	264.3	224.9	227.2	232.0	234.4	245.2	246.4
27.5°	1178.1	1118.3	913.8	459.3	215.3	208.1	214.1	220.1	223.7	232.0	235.6
30°	1218.7	1176.9	894.6	342.1	197.3	193.8	196.1	204.5	211.7	218.9	218.9
32.5°	1270.2	1210.4	850.4	242.8	186.6	180.6	179.4	183.0	191.4	199.7	199.7
35°	1322.8	1266.6	779.8	195.0	177.0	168.6	163.9	160.3	163.9	169.8	174.6
37.5°	1399.3	1351.5	691.3	179.4	169.8	157.9	148.3	139.9	134.0	132.8	136.3
40°	1508.2	1447.2	577.7	168.6	161.5	147.1	132.8	118.4	105.2	96.9	98.1
42.5°	1673.2	1588.3	454.5	162.7	155.5	135.2	114.8	94.5	77.7	69.4	69.4
45°	1908.9	1774.9	333.7	156.7	148.3	120.8	94.5	70.6	53.8	49.0	50.2
47.5°	2264.1	1999.7	239.2	147.1	138.7	105.2	74.2	50.2	39.5	37.1	38.3
50°	2728.1	2266.5	186.6	136.3	126.8	88.5	55.0	37.1	31.1	29.9	31.1
52.5°	3214.9	2535.6	163.9	126.8	108.8	70.6	40.7	29.9	26.3	25.1	26.3
55°	3631.1	2709.0	142.3	112.4	87.3	52.6	32.3	26.3	22.7	19.1	19.1
57.5°	4052.1	2796.3	112.4	93.3	64.6	39.5	27.5	22.7	19.1	15.5	14.4
60°	4394.2	2858.5	80.1	69.4	45.4	31.1	23.9	20.3	15.5	12.0	10.8
62.5°	4619.0	2680.3	58.6	52.6	33.5	26.3	20.3	16.7	12.0	8.4	8.4
65°	4507.8	2433.9	45.4	37.1	25.1	20.3	16.7	12.0	8.4	4.8	3.6
67.5°	4044.9	1983.0	37.1	27.5	19.1	15.5	13.2	9.6	4.8	1.2	1.2
70°	3017.6	1453.2	29.9	20.3	15.5	12.0	9.6	6.0	2.4	1.2	0.0
72.5°	1650.5	795.4	23.9	16.7	12.0	9.6	7.2	4.8	2.4	0.0	0.0
75°	545.4	211.7	17.9	12.0	7.2	6.0	4.8	3.6	1.2	0.0	0.0
77.5°	131.6	55.0	14.4	10.8	6.0	3.6	2.4	1.2	1.2	0.0	0.0
80°	40.7	22.7	10.8	7.2	4.8	3.6	1.2	0.0	0.0	0.0	0.0
82.5°	16.7	10.8	4.8	4.8	3.6	1.2	0.0	0.0	0.0	0.0	0.0
85°	8.4	6.0	3.6	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	2.4	1.2	1.2	0.0	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)