

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: P483499

Luminaire Tested: **IFLD-S-SA3A-727-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483499
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-727-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

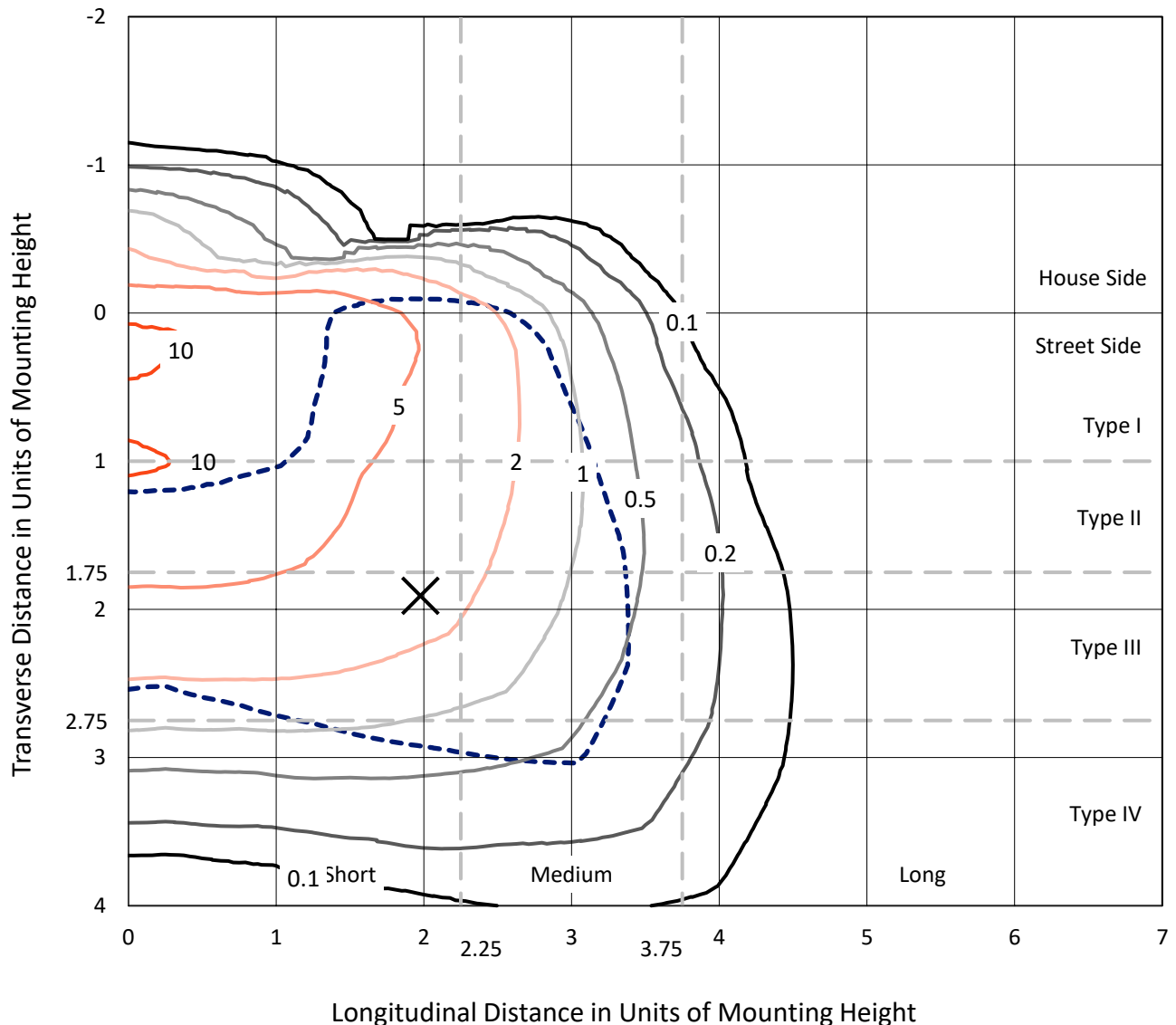
Lumens per Lamp: N/A
Luminaire Lumens: 8489.7 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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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Iso-Footcandle Lines of Horizontal Illumination

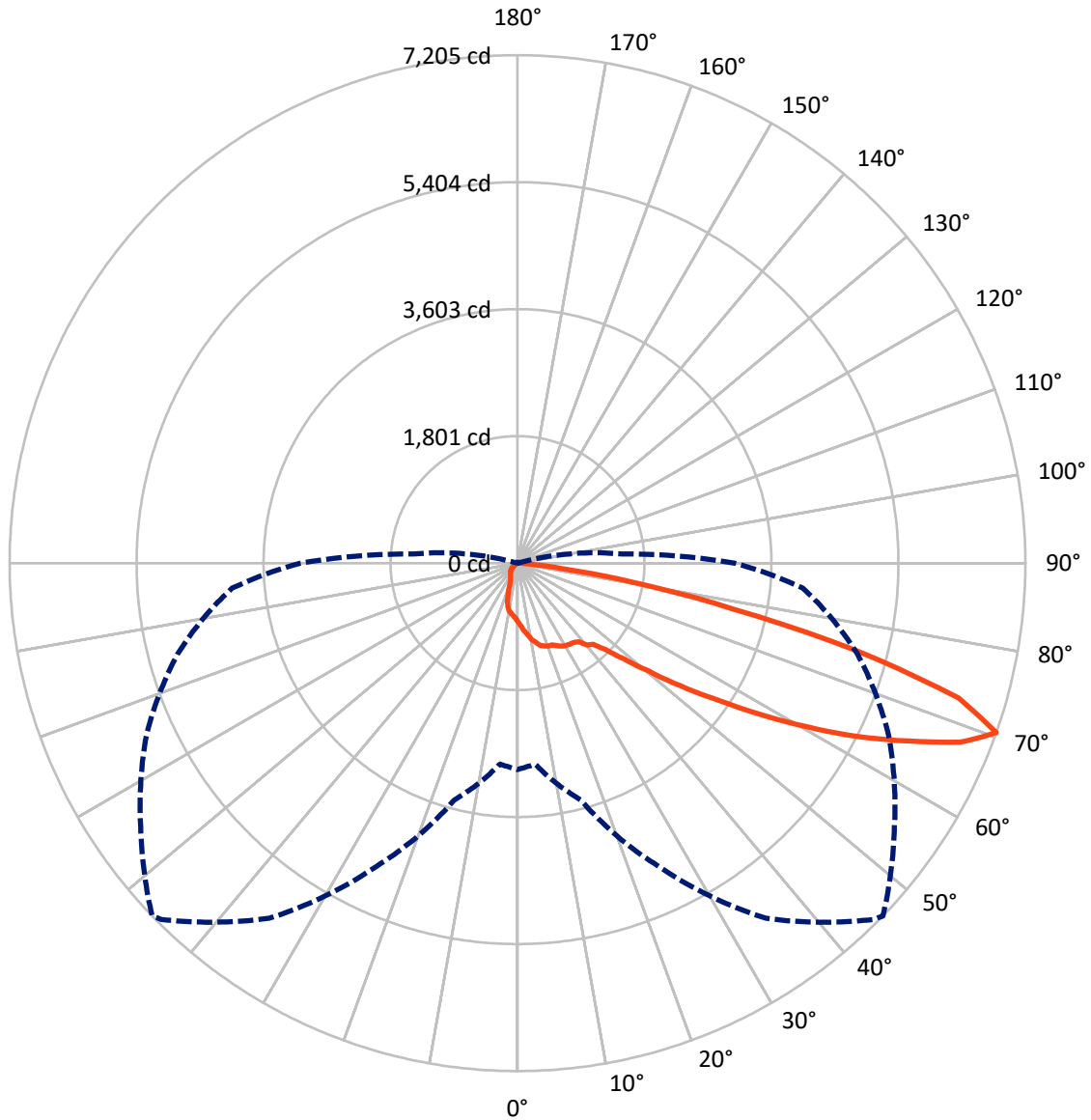
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	844.7	0.0	844.7
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	7645.0	0.0	7645.0
	% Fixture	90.0	0.0	90.0
Total	Lumens	8489.7	0.0	8489.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	1.0
10°-20°	251.0	3.0
20°-30°	402.0	4.7
30°-40°	573.8	6.8
40°-50°	990.8	11.7
50°-60°	1896.9	22.3
60°-70°	2809.0	33.1
70°-80°	1391.3	16.4
80°-90°	91.9	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°	8489.7	100.0
0°-180°	8489.7	100.0

Coefficient of Utilization



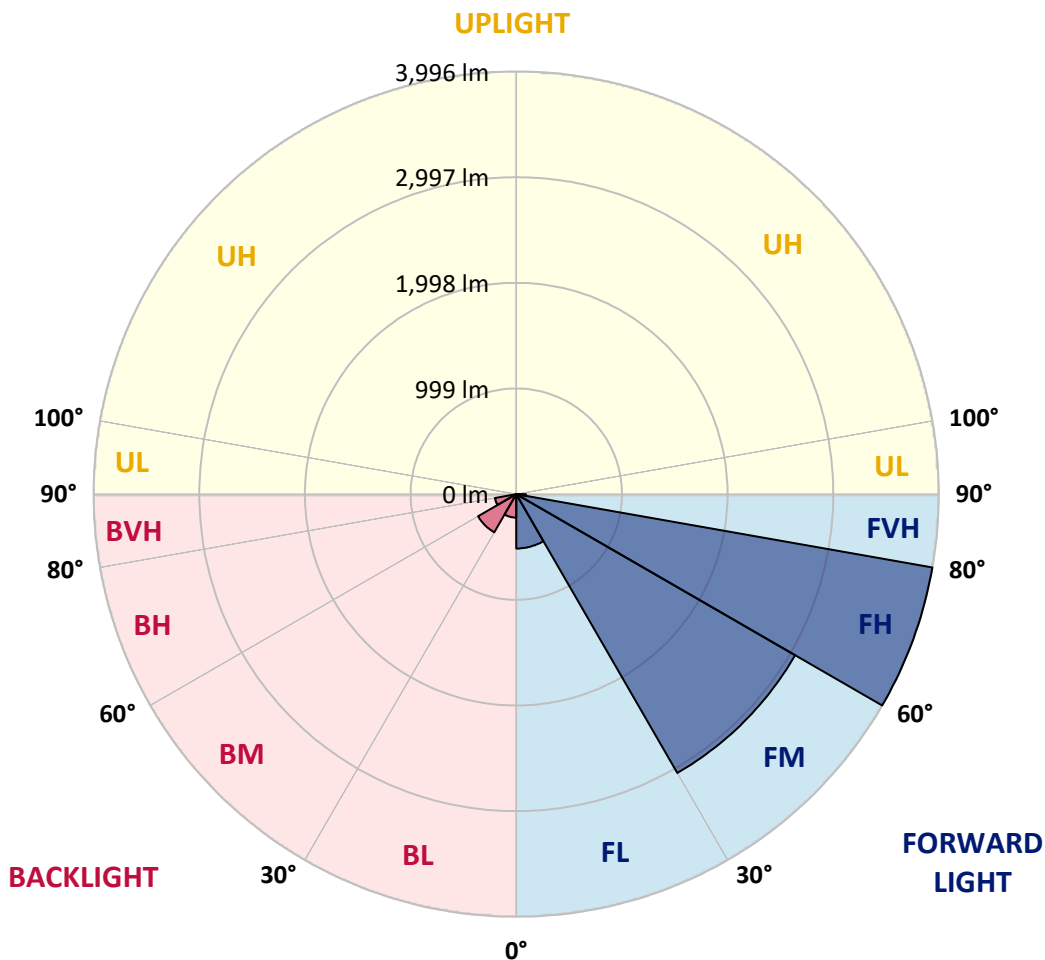
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	514.1	6.1			
FM (30°-60°)	3044.4	35.9			
FH (60°-80°)	3995.7	47.1			G2/5000
FVH (80°-90°)	90.8	1.1			G1/100
BL (0°-30°)	221.9	2.6	B1/500		
BM (30°-60°)	417.1	4.9	B1/1000		
BH (60°-80°)	204.6	2.4	B1/500		G1/500
BVH (80°-90°)	1.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4
2.5°	930.0	923.9	914.1	910.4	900.6	895.8	888.4	884.8	871.3	857.9	849.3
5°	1043.6	1029.0	1033.8	1019.2	987.4	961.7	960.5	932.4	901.9	877.4	844.4
7.5°	1158.5	1146.3	1127.9	1107.2	1071.7	1033.8	1022.8	996.0	953.2	910.4	866.4
10°	1245.3	1236.7	1220.8	1191.5	1142.6	1099.8	1101.1	1055.8	1010.6	961.7	901.9
12.5°	1299.0	1302.7	1279.5	1250.1	1207.4	1153.6	1152.4	1121.8	1070.5	1019.2	948.3
15°	1352.8	1366.2	1330.8	1296.6	1241.6	1202.5	1209.8	1173.2	1123.0	1064.4	986.2
17.5°	1361.3	1365.0	1357.7	1307.6	1267.2	1234.3	1235.5	1211.0	1173.2	1109.6	1042.4
20°	1346.7	1344.2	1335.7	1299.0	1272.1	1252.6	1253.8	1247.7	1226.9	1175.6	1083.9
22.5°	1303.9	1303.9	1292.9	1268.5	1256.3	1274.6	1259.9	1283.1	1261.1	1230.6	1154.8
25°	1269.7	1283.1	1277.0	1261.1	1266.0	1290.5	1297.8	1319.8	1316.1	1278.2	1203.7
27.5°	1306.4	1290.5	1294.1	1275.8	1294.1	1330.8	1334.5	1350.3	1349.1	1318.6	1247.7
30°	1330.8	1345.5	1317.4	1277.0	1296.6	1358.9	1356.5	1377.2	1387.0	1350.3	1289.2
32.5°	1409.0	1396.8	1373.6	1319.8	1322.2	1357.7	1368.7	1395.6	1401.7	1379.7	1329.6
35°	1569.1	1550.8	1449.3	1368.7	1356.5	1373.6	1380.9	1433.4	1444.4	1420.0	1372.3
37.5°	1815.9	1774.4	1652.2	1473.8	1418.8	1415.1	1415.1	1484.8	1526.3	1470.1	1435.9
40°	2169.1	2110.5	1978.5	1668.1	1500.7	1515.3	1530.0	1567.9	1563.0	1526.3	1519.0
42.5°	2618.8	2573.6	2430.6	1994.4	1657.1	1583.8	1571.5	1622.9	1699.8	1685.2	1680.3
45°	2994.0	2996.4	2904.8	2441.6	1927.1	1741.4	1750.0	1789.1	1918.6	1907.6	1906.4
47.5°	3267.7	3233.5	3220.1	2873.0	2320.6	2040.8	2028.6	2055.5	2224.1	2293.8	2325.5
50°	3517.0	3493.8	3462.0	3292.2	2793.6	2416.0	2403.7	2406.2	2664.0	2761.8	2840.0
52.5°	3826.2	3855.5	3750.4	3646.5	3405.8	2903.6	2890.1	2842.4	3162.6	3297.0	3389.9
55°	4207.5	4152.5	4033.9	4087.7	3991.2	3430.2	3405.8	3349.6	3730.9	3787.1	3884.8
57.5°	4291.8	4250.2	4372.4	4563.1	4655.9	4048.6	4038.8	3937.4	4208.7	4157.4	4433.5
60°	4502.0	4513.0	4682.8	5061.7	5223.0	4762.3	4714.6	4536.2	4671.8	4681.6	4976.1
62.5°	4718.3	4692.6	5072.7	5436.8	5684.9	5438.0	5422.2	5067.8	5221.7	5097.1	5486.9
65°	4559.4	4598.5	5142.3	5752.1	6283.7	6099.2	6085.7	5579.8	5664.1	5508.9	5694.7
67.5°	3994.8	3915.4	4676.7	5607.9	6591.6	6792.1	6777.4	6138.3	5913.4	5506.5	5263.3
70°	2928.0	2859.6	3480.4	4748.8	6150.5	7146.4	7205.1	6526.9	5812.0	4993.2	4060.8
72.5°	1434.7	1435.9	1950.4	3220.1	4866.1	6513.4	6542.8	5984.3	4993.2	3680.8	2299.9
75°	424.0	428.9	722.2	1578.9	3145.5	4946.8	4979.8	4542.3	3460.8	1901.5	784.5
77.5°	155.2	155.2	239.5	592.7	1569.1	3122.3	3119.9	2788.7	1752.4	644.0	183.3
80°	80.7	84.3	124.6	242.0	679.5	1626.5	1687.6	1365.0	666.0	271.3	53.8
82.5°	33.0	36.7	68.4	124.6	326.3	570.7	624.5	535.3	289.6	189.4	24.4
85°	9.8	11.0	33.0	69.7	128.3	143.0	158.9	179.6	182.1	146.6	11.0
87.5°	1.2	1.2	13.4	23.2	28.1	30.6	35.4	35.4	92.9	102.7	6.1
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°	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4
2.5°	839.5	833.4	823.7	801.7	796.8	780.9	779.7	765.0	769.9	760.1	756.4
5°	833.4	820.0	793.1	776.0	758.9	747.9	740.6	734.4	733.2	728.3	725.9
7.5°	844.4	826.1	784.5	757.7	728.3	718.6	702.7	701.4	692.9	684.3	684.3
10°	881.1	848.1	802.9	757.7	719.8	688.0	651.3	624.5	614.7	592.7	595.1
12.5°	910.4	881.1	815.1	768.7	711.2	639.1	558.5	496.1	466.8	438.7	449.7
15°	952.0	909.2	838.3	771.1	678.2	553.6	421.6	351.9	325.1	319.0	317.7
17.5°	997.2	952.0	867.6	765.0	611.0	427.7	310.4	270.1	275.0	282.3	281.1
20°	1047.3	992.3	889.6	744.2	504.7	310.4	254.2	253.0	260.3	271.3	273.7
22.5°	1099.8	1052.2	916.5	681.9	376.4	249.3	244.4	244.4	249.3	262.7	260.3
25°	1158.5	1094.9	930.0	585.4	270.1	229.7	232.2	237.1	239.5	250.5	251.7
27.5°	1203.7	1142.6	933.6	469.3	220.0	212.6	218.7	224.9	228.5	237.1	240.7
30°	1245.3	1202.5	914.1	349.5	201.6	198.0	200.4	209.0	216.3	223.6	223.6
32.5°	1297.8	1236.7	868.9	248.1	190.6	184.5	183.3	187.0	195.5	204.1	204.1
35°	1351.6	1294.1	796.8	199.2	180.9	172.3	167.4	163.8	167.4	173.5	178.4
37.5°	1429.8	1380.9	706.3	183.3	173.5	161.3	151.5	143.0	136.9	135.6	139.3
40°	1541.0	1478.7	590.2	172.3	165.0	150.3	135.6	121.0	107.5	99.0	100.2
42.5°	1709.6	1622.9	464.4	166.2	158.9	138.1	117.3	96.5	79.4	70.9	70.9
45°	1950.4	1813.5	340.9	160.1	151.5	123.4	96.5	72.1	55.0	50.1	51.3
47.5°	2313.3	2043.2	244.4	150.3	141.8	107.5	75.8	51.3	40.3	37.9	39.1
50°	2787.5	2315.8	190.6	139.3	129.5	90.4	56.2	37.9	31.8	30.6	31.8
52.5°	3284.8	2590.7	167.4	129.5	111.2	72.1	41.5	30.6	26.9	25.7	26.9
55°	3710.1	2767.9	145.4	114.9	89.2	53.8	33.0	26.9	23.2	19.6	19.6
57.5°	4140.2	2857.1	114.9	95.3	66.0	40.3	28.1	23.2	19.6	15.9	14.7
60°	4489.7	2920.7	81.9	70.9	46.4	31.8	24.4	20.8	15.9	12.2	11.0
62.5°	4719.5	2738.6	59.9	53.8	34.2	26.9	20.8	17.1	12.2	8.6	8.6
65°	4605.8	2486.8	46.4	37.9	25.7	20.8	17.1	12.2	8.6	4.9	3.7
67.5°	4132.9	2026.1	37.9	28.1	19.6	15.9	13.4	9.8	4.9	1.2	1.2
70°	3083.2	1484.8	30.6	20.8	15.9	12.2	9.8	6.1	2.4	1.2	0.0
72.5°	1686.4	812.7	24.4	17.1	12.2	9.8	7.3	4.9	2.4	0.0	0.0
75°	557.2	216.3	18.3	12.2	7.3	6.1	4.9	3.7	1.2	0.0	0.0
77.5°	134.4	56.2	14.7	11.0	6.1	3.7	2.4	1.2	1.2	0.0	0.0
80°	41.5	23.2	11.0	7.3	4.9	3.7	1.2	0.0	0.0	0.0	0.0
82.5°	17.1	11.0	4.9	4.9	3.7	1.2	0.0	0.0	0.0	0.0	0.0
85°	8.6	6.1	3.7	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	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)