

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: P483769

Luminaire Tested: **IFLD-S-SA2C-830-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483769
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-830-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

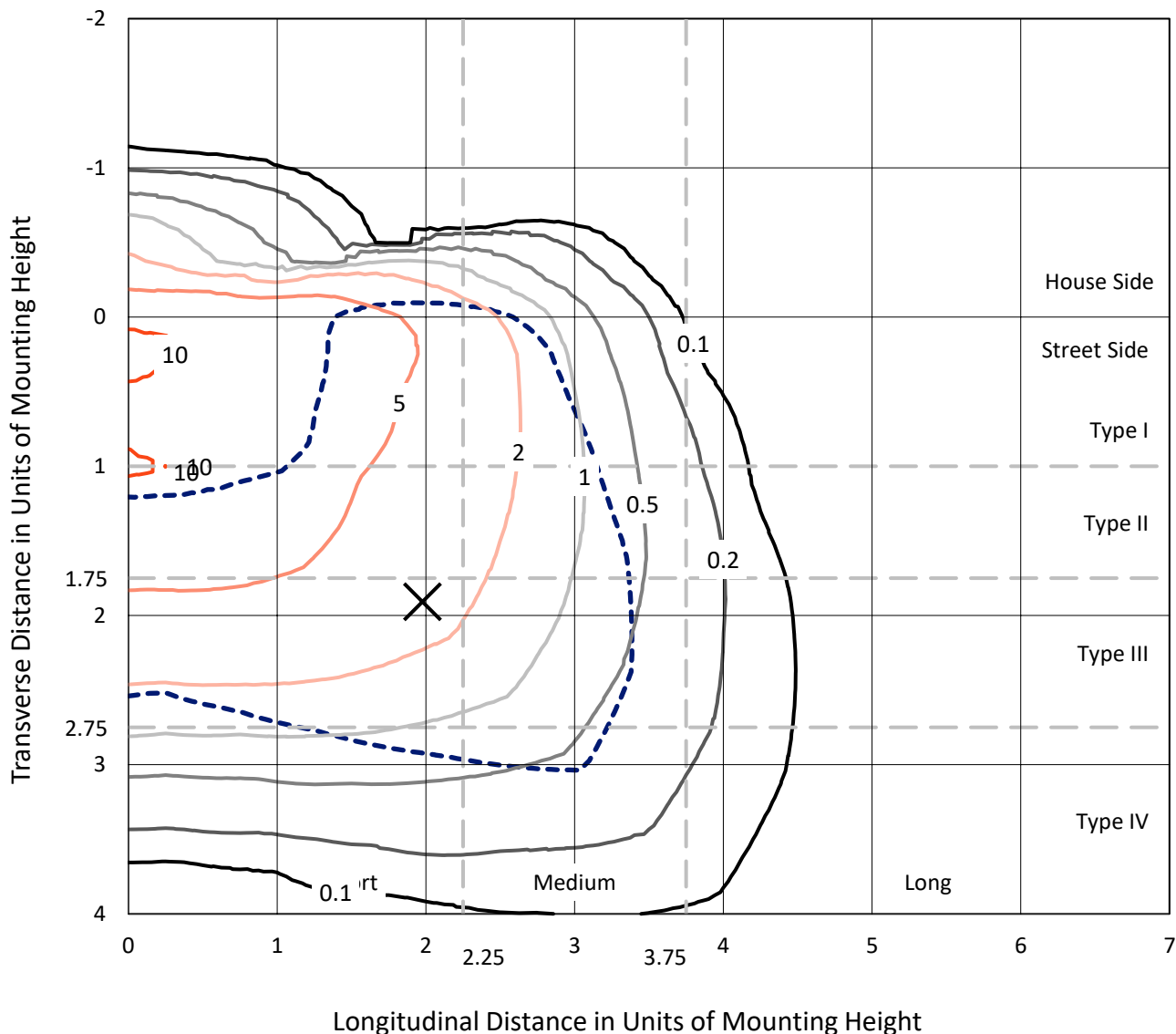
Lumens per Lamp: N/A
Luminaire Lumens: 8333.1 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

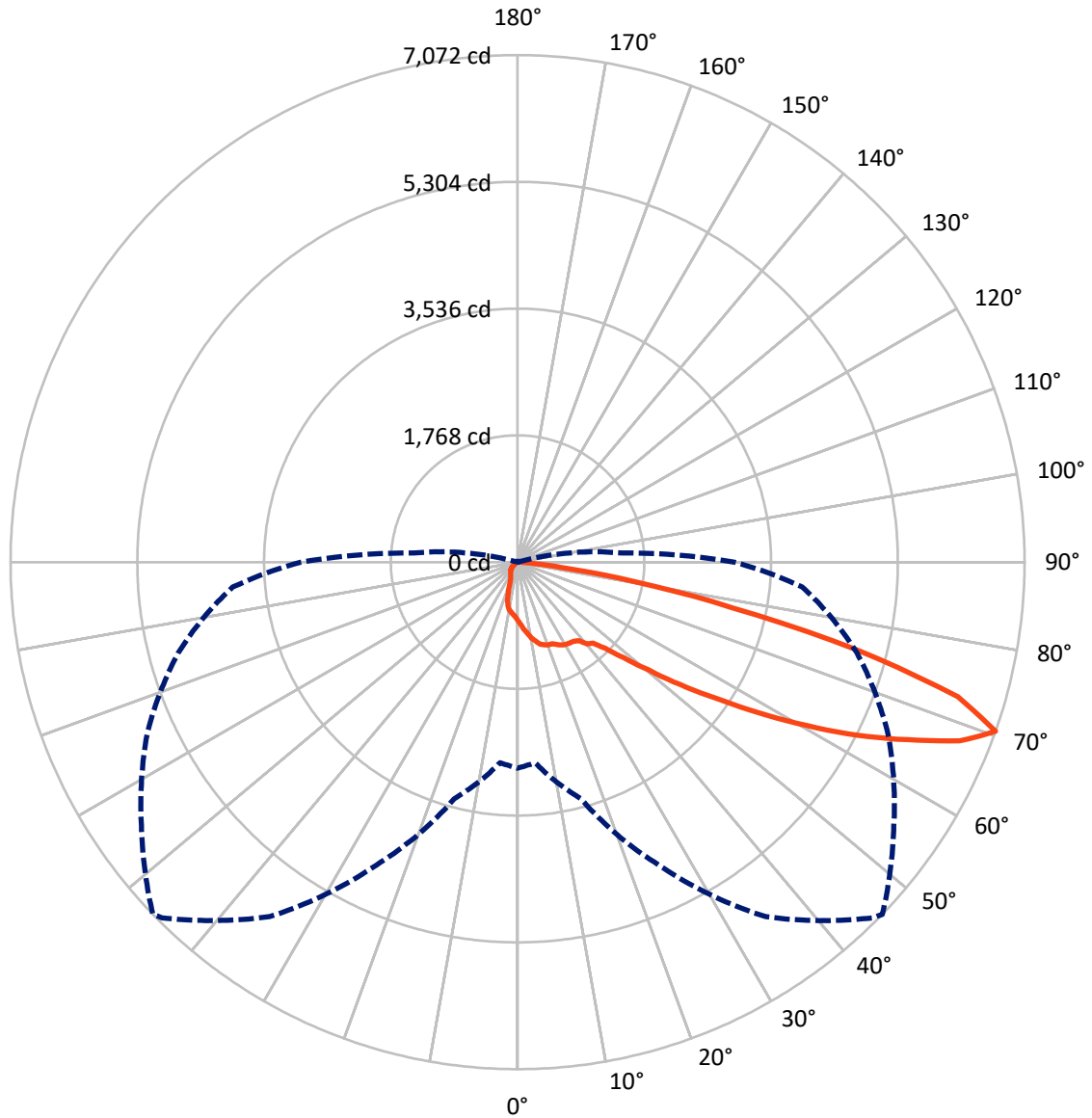
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 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	829.2	0.0	829.2
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	7503.9	0.0	7503.9
	% Fixture	90.0	0.0	90.0
Total	Lumens	8333.1	0.0	8333.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	1.0
10°-20°	246.3	3.0
20°-30°	394.6	4.7
30°-40°	563.2	6.8
40°-50°	972.5	11.7
50°-60°	1861.9	22.3
60°-70°	2757.2	33.1
70°-80°	1365.6	16.4
80°-90°	90.2	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°	8333.1	100.0
0°-180°	8333.1	100.0



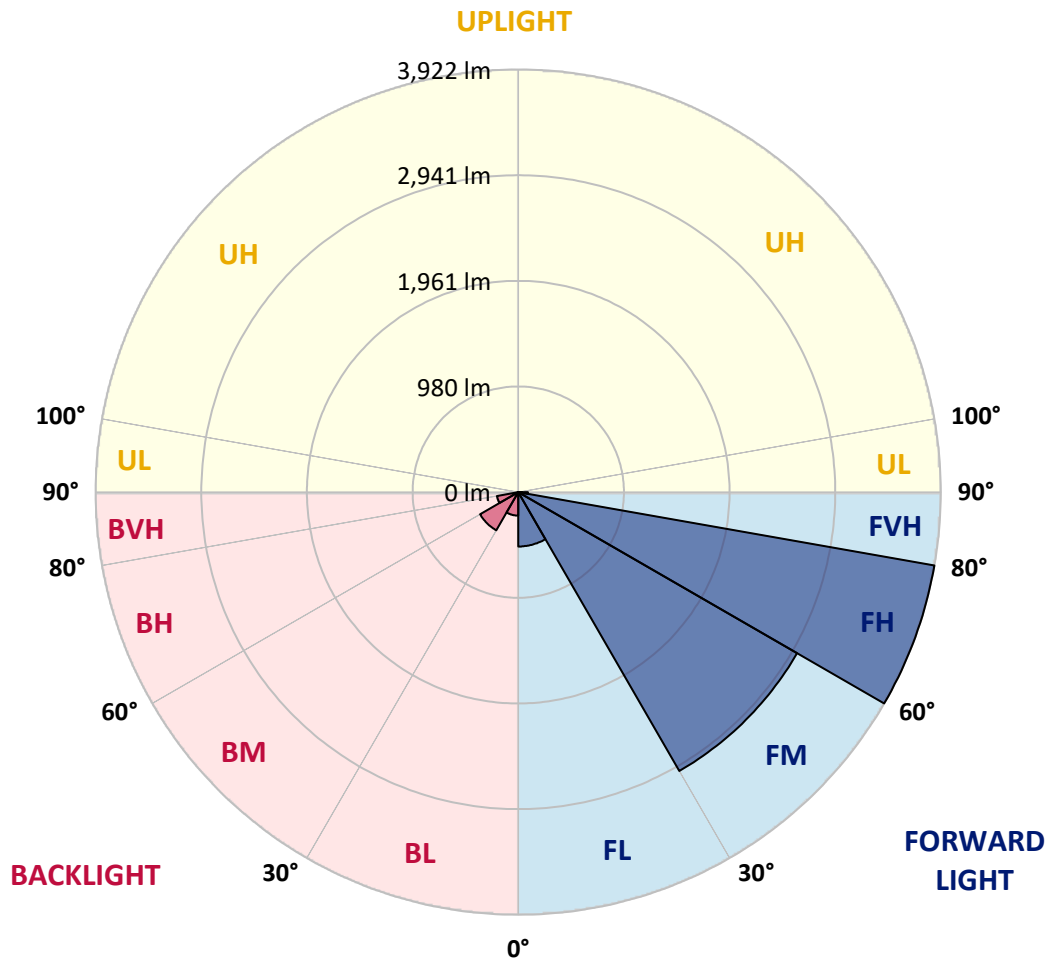
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	504.6	6.1			
FM (30°-60°)	2988.2	35.9			
FH (60°-80°)	3922.0	47.1			G2/5000
FVH (80°-90°)	89.1	1.1			G1/100
BL (0°-30°)	217.8	2.6	B1/500		
BM (30°-60°)	409.4	4.9	B1/1000		
BH (60°-80°)	200.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1
2.5°	912.8	906.8	897.2	893.6	884.0	879.2	872.0	868.4	855.2	842.0	833.6
5°	1024.4	1010.0	1014.8	1000.4	969.2	944.0	942.8	915.2	885.2	861.2	828.8
7.5°	1137.1	1125.1	1107.1	1086.7	1052.0	1014.8	1004.0	977.6	935.6	893.6	850.4
10°	1222.3	1213.9	1198.3	1169.5	1121.5	1079.5	1080.7	1036.4	992.0	944.0	885.2
12.5°	1275.1	1278.7	1255.9	1227.1	1185.1	1132.3	1131.1	1101.1	1050.8	1000.4	930.8
15°	1327.8	1341.0	1306.2	1272.7	1218.7	1180.3	1187.5	1151.5	1102.3	1044.8	968.0
17.5°	1336.2	1339.8	1332.6	1283.5	1243.9	1211.5	1212.7	1188.7	1151.5	1089.1	1023.2
20°	1321.8	1319.4	1311.0	1275.1	1248.7	1229.5	1230.7	1224.7	1204.3	1153.9	1063.9
22.5°	1279.9	1279.9	1269.1	1245.1	1233.1	1251.1	1236.7	1259.5	1237.9	1207.9	1133.5
25°	1246.3	1259.5	1253.5	1237.9	1242.7	1266.7	1273.9	1295.4	1291.8	1254.7	1181.5
27.5°	1282.3	1266.7	1270.3	1252.3	1270.3	1306.2	1309.8	1325.4	1324.2	1294.2	1224.7
30°	1306.2	1320.6	1293.0	1253.5	1272.7	1333.8	1331.4	1351.8	1361.4	1325.4	1265.5
32.5°	1383.0	1371.0	1348.2	1295.4	1297.8	1332.6	1343.4	1369.8	1375.8	1354.2	1305.0
35°	1540.1	1522.1	1422.6	1343.4	1331.4	1348.2	1355.4	1407.0	1417.8	1393.8	1347.0
37.5°	1782.4	1741.7	1621.7	1446.6	1392.6	1389.0	1389.0	1457.4	1498.2	1443.0	1409.4
40°	2129.1	2071.5	1942.0	1637.3	1473.0	1487.4	1501.8	1538.9	1534.1	1498.2	1491.0
42.5°	2570.5	2526.1	2385.8	1957.6	1626.5	1554.5	1542.5	1592.9	1668.5	1654.1	1649.3
45°	2938.7	2941.1	2851.2	2396.6	1891.6	1709.3	1717.7	1756.0	1883.2	1872.4	1871.2
47.5°	3207.4	3173.8	3160.6	2820.0	2277.8	2003.1	1991.1	2017.5	2183.1	2251.4	2282.6
50°	3452.1	3429.3	3398.1	3231.4	2742.0	2371.4	2359.4	2361.8	2614.9	2710.8	2787.6
52.5°	3755.6	3784.4	3681.2	3579.3	3343.0	2850.0	2836.8	2790.0	3104.3	3236.2	3327.4
55°	4129.8	4075.9	3959.5	4012.3	3917.5	3367.0	3343.0	3287.8	3662.0	3717.2	3813.2
57.5°	4212.6	4171.8	4291.8	4478.9	4570.0	3973.9	3964.3	3864.7	4131.0	4080.7	4351.7
60°	4418.9	4429.7	4596.4	4968.3	5126.6	4674.4	4627.6	4452.5	4585.6	4595.2	4884.3
62.5°	4631.2	4606.0	4979.1	5336.5	5580.0	5337.7	5322.1	4974.3	5125.4	5003.1	5385.7
65°	4475.3	4513.7	5047.4	5646.0	6167.8	5986.6	5973.4	5476.9	5559.6	5407.3	5589.6
67.5°	3921.1	3843.2	4590.4	5504.4	6470.0	6666.7	6652.4	6025.0	5804.3	5404.9	5166.2
70°	2874.0	2806.8	3416.1	4661.2	6037.0	7014.6	7072.2	6406.5	5704.8	4901.1	3985.9
72.5°	1408.2	1409.4	1914.4	3160.6	4776.4	6393.3	6422.1	5873.9	4901.1	3612.9	2257.4
75°	416.2	421.0	708.9	1549.7	3087.5	4855.5	4887.9	4458.5	3396.9	1866.4	770.1
77.5°	152.3	152.3	235.1	581.8	1540.1	3064.7	3062.3	2737.2	1720.1	632.1	179.9
80°	79.2	82.8	122.3	237.5	666.9	1596.5	1656.5	1339.8	653.7	266.3	52.8
82.5°	32.4	36.0	67.2	122.3	320.3	560.2	612.9	525.4	284.3	185.9	24.0
85°	9.6	10.8	32.4	68.4	125.9	140.3	155.9	176.3	178.7	143.9	10.8
87.5°	1.2	1.2	13.2	22.8	27.6	30.0	34.8	34.8	91.2	100.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1	818.1
2.5°	824.0	818.1	808.5	786.9	782.1	766.5	765.3	750.9	755.7	746.1	742.5
5°	818.1	804.9	778.5	761.7	744.9	734.1	726.9	720.9	719.7	714.9	712.5
7.5°	828.8	810.9	770.1	743.7	714.9	705.3	689.7	688.5	680.1	671.7	671.7
10°	864.8	832.4	788.1	743.7	706.5	675.3	639.3	612.9	603.3	581.8	584.2
12.5°	893.6	864.8	800.1	754.5	698.1	627.3	548.2	487.0	458.2	430.6	441.4
15°	934.4	892.4	822.8	756.9	665.7	543.4	413.8	345.5	319.1	313.1	311.9
17.5°	978.8	934.4	851.6	750.9	599.7	419.8	304.7	265.1	269.9	277.1	275.9
20°	1028.0	974.0	873.2	730.5	495.4	304.7	249.5	248.3	255.5	266.3	268.7
22.5°	1079.5	1032.8	899.6	669.3	369.4	244.7	239.9	239.9	244.7	257.9	255.5
25°	1137.1	1074.7	912.8	574.6	265.1	225.5	227.9	232.7	235.1	245.9	247.1
27.5°	1181.5	1121.5	916.4	460.6	215.9	208.7	214.7	220.7	224.3	232.7	236.3
30°	1222.3	1180.3	897.2	343.1	197.9	194.3	196.7	205.1	212.3	219.5	219.5
32.5°	1273.9	1213.9	852.8	243.5	187.1	181.1	179.9	183.5	191.9	200.3	200.3
35°	1326.6	1270.3	782.1	195.5	177.5	169.1	164.3	160.7	164.3	170.3	175.1
37.5°	1403.4	1355.4	693.3	179.9	170.3	158.3	148.7	140.3	134.3	133.1	136.7
40°	1512.6	1451.4	579.4	169.1	161.9	147.5	133.1	118.7	105.6	97.2	98.4
42.5°	1678.1	1592.9	455.8	163.1	155.9	135.5	115.2	94.8	78.0	69.6	69.6
45°	1914.4	1780.0	334.7	157.1	148.7	121.1	94.8	70.8	54.0	49.2	50.4
47.5°	2270.6	2005.5	239.9	147.5	139.1	105.6	74.4	50.4	39.6	37.2	38.4
50°	2736.0	2273.0	187.1	136.7	127.1	88.8	55.2	37.2	31.2	30.0	31.2
52.5°	3224.2	2542.9	164.3	127.1	109.2	70.8	40.8	30.0	26.4	25.2	26.4
55°	3641.6	2716.8	142.7	112.8	87.6	52.8	32.4	26.4	22.8	19.2	19.2
57.5°	4063.9	2804.4	112.8	93.6	64.8	39.6	27.6	22.8	19.2	15.6	14.4
60°	4406.9	2866.8	80.4	69.6	45.6	31.2	24.0	20.4	15.6	12.0	10.8
62.5°	4632.4	2688.1	58.8	52.8	33.6	26.4	20.4	16.8	12.0	8.4	8.4
65°	4520.9	2441.0	45.6	37.2	25.2	20.4	16.8	12.0	8.4	4.8	3.6
67.5°	4056.7	1988.7	37.2	27.6	19.2	15.6	13.2	9.6	4.8	1.2	1.2
70°	3026.3	1457.4	30.0	20.4	15.6	12.0	9.6	6.0	2.4	1.2	0.0
72.5°	1655.3	797.7	24.0	16.8	12.0	9.6	7.2	4.8	2.4	0.0	0.0
75°	547.0	212.3	18.0	12.0	7.2	6.0	4.8	3.6	1.2	0.0	0.0
77.5°	131.9	55.2	14.4	10.8	6.0	3.6	2.4	1.2	1.2	0.0	0.0
80°	40.8	22.8	10.8	7.2	4.8	3.6	1.2	0.0	0.0	0.0	0.0
82.5°	16.8	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)