

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: P483105

Luminaire Tested: **IFLD-S-SA2B-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483105
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

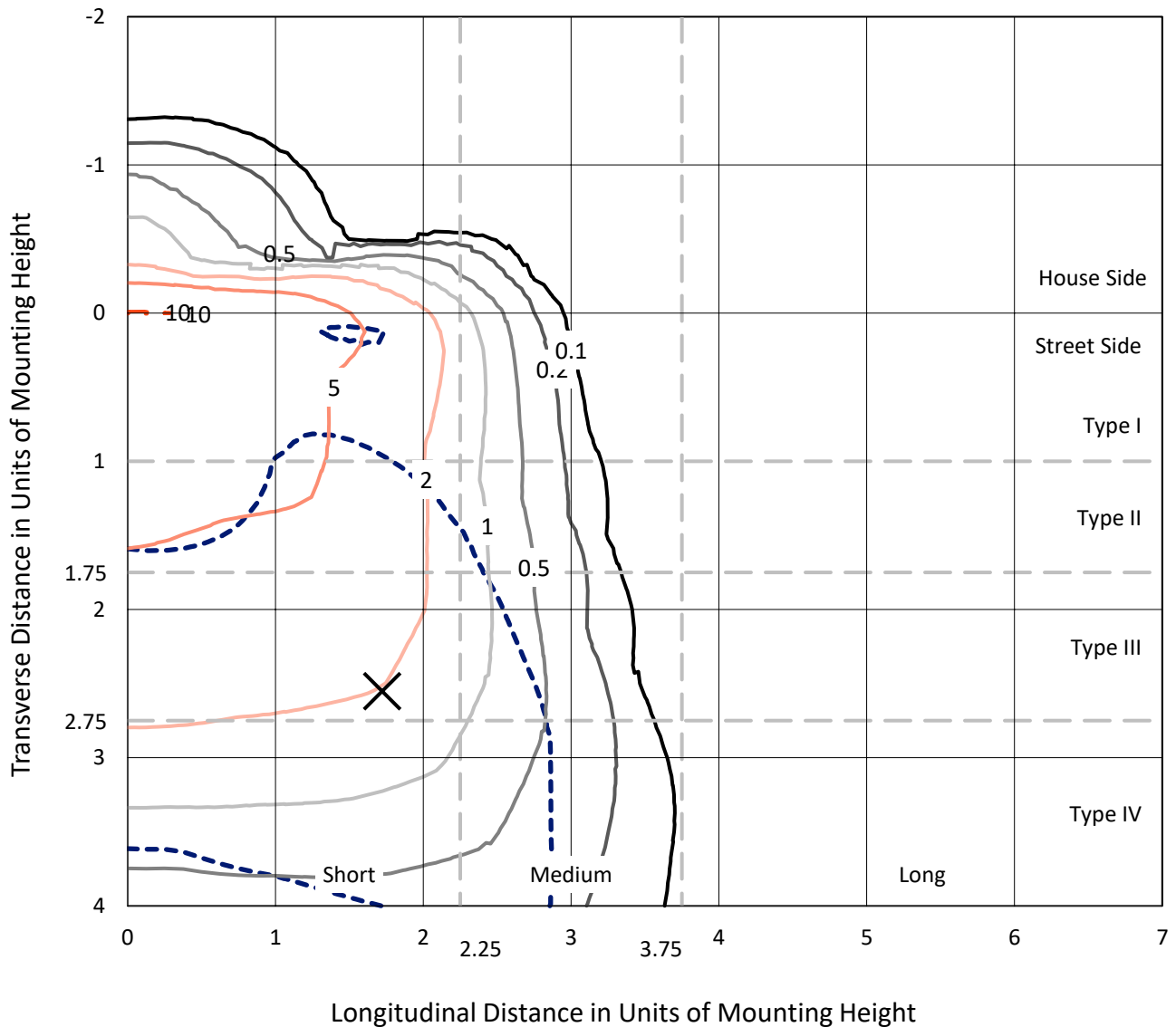
Lumens per Lamp: N/A
Luminaire Lumens: 6904.6 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

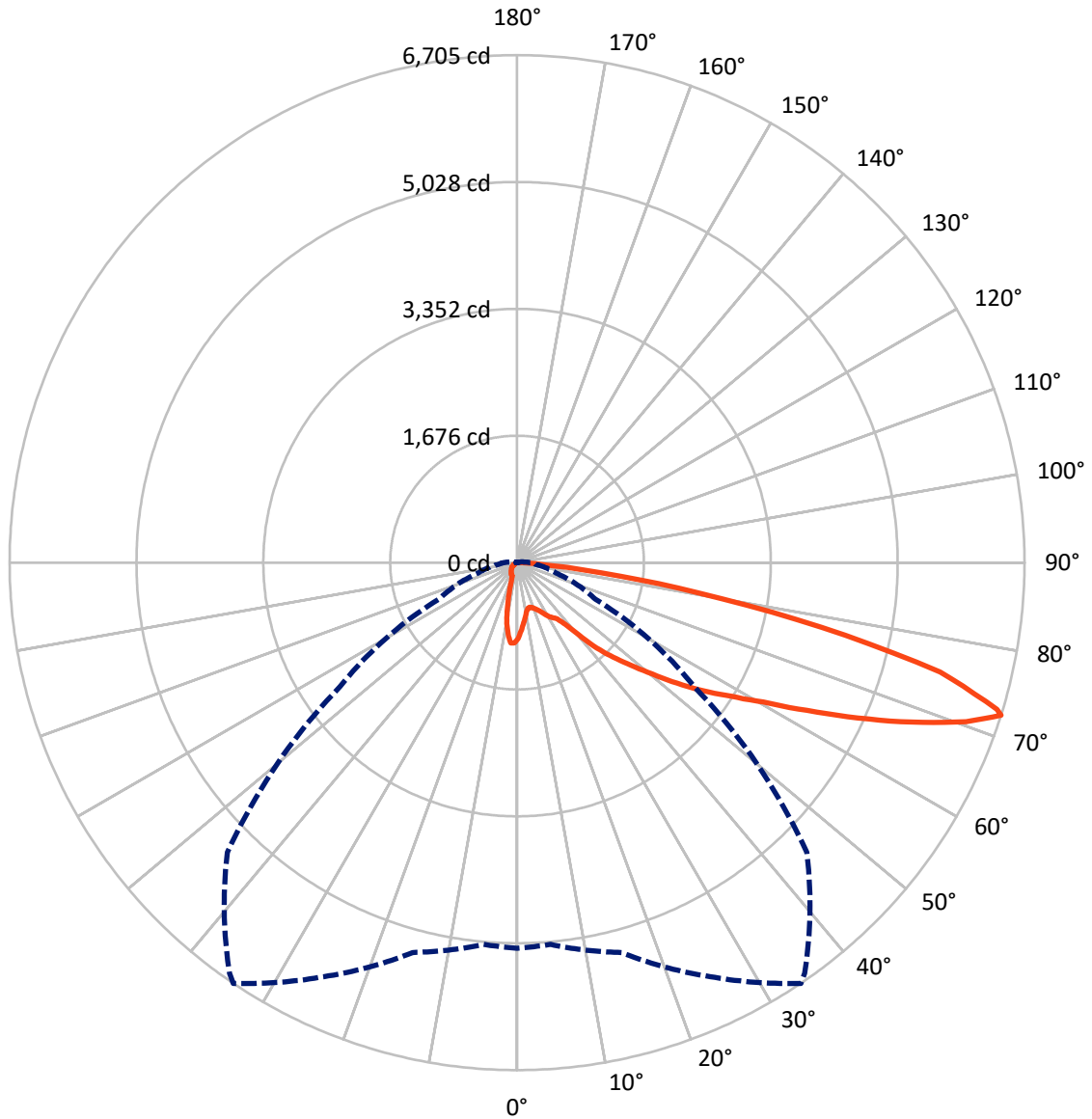
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	706.9	0.0	706.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	6197.7	0.0	6197.7
	% Fixture	89.8	0.0	89.8
Total	Lumens	6904.6	0.0	6904.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	1.3
10°-20°	198.5	2.9
20°-30°	299.7	4.3
30°-40°	486.3	7.0
40°-50°	914.4	13.2
50°-60°	1495.1	21.7
60°-70°	1987.5	28.8
70°-80°	1331.0	19.3
80°-90°	104.3	1.5
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°	6904.6	100.0
0°-180°	6904.6	100.0



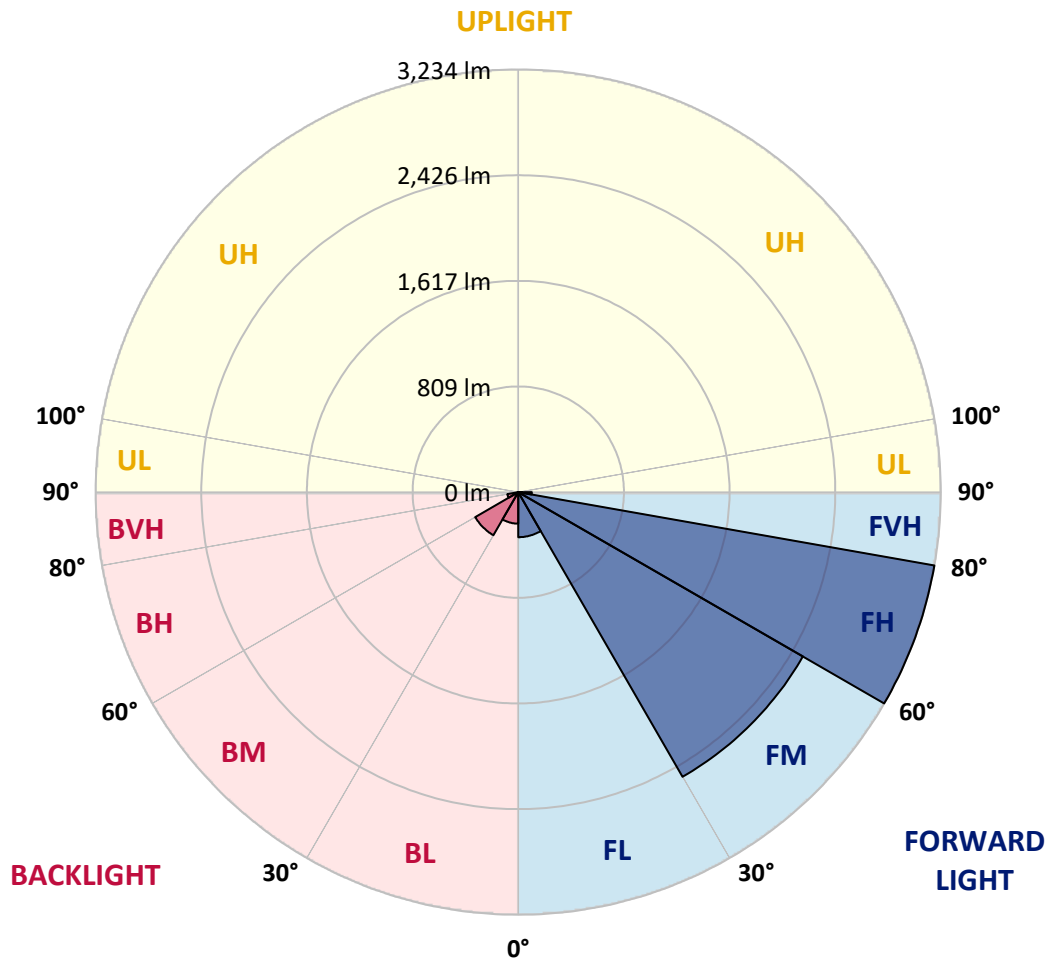
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	344.7	5.0			
FM (30°-60°)	2515.3	36.4			
FH (60°-80°)	3234.0	46.8			G2/5000
FVH (80°-90°)	103.6	1.5			G2/225
BL (0°-30°)	241.2	3.5	B1/500		
BM (30°-60°)	380.5	5.5	B1/1000		
BH (60°-80°)	84.5	1.2	B0/110		G0/110
BVH (80°-90°)	0.7	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°	34°	35°	45°	55°	65°	75°	85°
0°	1010.1	1010.1	1010.1	1010.1	1010.1	1010.1	1010.1	1010.1	1010.1	1010.1	1010.1
2.5°	893.4	891.4	897.3	907.3	917.3	913.3	932.3	952.2	966.2	985.2	1008.1
5°	780.6	785.6	791.5	811.5	824.5	827.5	862.4	888.4	931.3	975.2	1016.1
7.5°	677.8	683.7	695.7	717.7	744.6	751.6	786.6	838.5	894.4	952.2	1019.1
10°	602.9	608.9	621.9	635.8	671.8	671.8	719.7	791.5	864.4	932.3	1020.1
12.5°	586.9	589.9	588.9	599.9	622.9	627.8	674.8	753.6	838.5	925.3	1036.1
15°	605.9	607.9	597.9	591.9	611.9	616.9	660.8	730.7	821.5	929.3	1062.0
17.5°	643.8	636.8	616.9	607.9	624.8	627.8	668.8	729.7	819.5	940.3	1092.0
20°	665.8	673.8	638.8	621.9	645.8	649.8	693.7	745.6	829.5	959.2	1133.9
22.5°	704.7	708.7	661.8	650.8	673.8	673.8	723.7	777.6	853.4	990.2	1183.8
25°	759.6	754.6	699.7	688.7	710.7	719.7	769.6	828.5	890.4	1019.1	1229.7
27.5°	802.5	805.5	760.6	731.7	768.6	774.6	828.5	883.4	918.3	1043.1	1285.6
30°	866.4	860.4	812.5	779.6	825.5	826.5	878.4	935.3	972.2	1086.0	1369.5
32.5°	942.3	930.3	875.4	828.5	865.4	874.4	927.3	1010.1	1056.1	1166.8	1499.2
35°	1103.0	1074.0	984.2	911.3	914.3	918.3	1000.2	1118.9	1171.8	1269.7	1672.9
37.5°	1337.5	1325.6	1223.7	1085.0	1032.1	1020.1	1112.0	1262.7	1328.6	1405.4	1898.5
40°	1570.1	1553.1	1458.3	1353.5	1257.7	1233.7	1279.6	1453.3	1513.2	1594.1	2130.1
42.5°	1828.6	1798.7	1686.9	1602.0	1542.2	1516.2	1498.2	1692.9	1760.8	1815.7	2356.7
45°	2090.1	2041.2	1879.5	1814.7	1782.7	1768.7	1766.7	1994.3	2035.2	2046.2	2608.2
47.5°	2319.7	2266.8	2120.1	2047.2	2023.3	2019.3	2131.1	2341.7	2309.7	2280.8	2888.7
50°	2496.4	2462.5	2356.7	2330.7	2312.7	2305.8	2567.3	2699.0	2551.3	2500.4	3135.2
52.5°	2769.9	2694.0	2574.3	2583.2	2646.1	2647.1	3009.5	3038.4	2751.9	2651.1	3367.8
55°	2988.5	2938.6	2840.8	2827.8	2993.5	3011.5	3405.7	3295.9	2863.7	2794.8	3453.6
57.5°	3246.0	3223.1	3152.2	3154.2	3327.9	3365.8	3758.1	3513.5	2956.6	2887.7	3466.6
60°	3618.3	3552.5	3515.5	3532.5	3737.1	3774.0	4099.4	3670.2	3001.5	2948.6	3434.7
62.5°	4029.6	3952.7	3912.8	3999.6	4298.1	4304.1	4359.0	3809.0	2973.5	2964.5	3229.0
65°	4524.7	4448.8	4416.9	4591.5	4945.9	4923.9	4723.3	3867.9	2884.7	2803.8	2689.0
67.5°	5017.8	4971.8	4906.0	5184.4	5625.6	5625.6	5101.6	3845.9	2652.1	2250.9	1758.8
70°	5251.3	5283.3	5388.1	5825.3	6293.4	6245.5	5474.9	3593.4	1974.4	1208.8	691.7
72°	5095.6	5062.7	5333.2	6034.9	6704.6	6625.8	5412.0	2856.7	1140.9	530.0	240.6
72.5°	4828.1	4859.0	5231.4	6005.9	6627.8	6692.7	5258.3	2635.1	938.3	422.2	181.7
75°	2960.5	3013.4	3904.8	5099.6	5775.4	5702.5	4067.5	1255.7	360.3	179.7	64.9
77.5°	1081.0	1124.9	1894.5	3209.1	4107.4	4061.5	2353.7	446.2	195.6	133.8	32.9
80°	281.5	304.4	643.8	1480.3	2415.5	2418.5	985.2	178.7	132.8	109.8	20.0
82.5°	55.9	61.9	197.6	575.9	1128.9	1113.9	311.4	95.8	99.8	89.8	14.0
85°	7.0	9.0	41.9	195.6	365.3	327.4	76.9	47.9	73.9	69.9	9.0
87.5°	1.0	1.0	10.0	44.9	76.9	74.9	16.0	15.0	32.9	42.9	5.0
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°	1010.1	1010.1	1010.1	1010.1	1010.1	1010.1	1010.1	1010.1	1010.1	1010.1	1010.1
2.5°	1021.1	1025.1	1039.1	1051.1	1065.0	1069.0	1063.0	1073.0	1059.0	1067.0	1069.0
5°	1023.1	1046.1	1072.0	1089.0	1085.0	1075.0	1067.0	1040.1	1021.1	1014.1	1029.1
7.5°	1037.1	1063.0	1091.0	1091.0	1069.0	1017.1	967.2	919.3	879.4	859.4	876.4
10°	1055.1	1082.0	1111.0	1073.0	991.2	896.3	825.5	735.6	674.8	642.8	645.8
12.5°	1079.0	1116.9	1126.9	1039.1	903.3	762.6	633.8	509.1	451.2	405.3	406.3
15°	1110.0	1146.9	1116.9	965.2	791.5	583.9	429.2	310.4	264.5	240.6	240.6
17.5°	1150.9	1178.8	1113.9	897.3	640.8	399.3	263.5	209.6	199.6	195.6	195.6
20°	1198.8	1219.8	1085.0	791.5	476.1	256.5	193.6	187.7	188.7	186.7	186.7
22.5°	1252.7	1259.7	1052.1	668.8	322.4	189.7	180.7	181.7	182.7	180.7	181.7
25°	1309.6	1290.6	1004.1	525.0	214.6	172.7	174.7	176.7	177.7	178.7	178.7
27.5°	1373.5	1335.5	937.3	384.3	167.7	162.7	168.7	174.7	175.7	175.7	174.7
30°	1467.3	1404.4	872.4	260.5	147.7	151.7	161.7	168.7	173.7	173.7	172.7
32.5°	1586.1	1476.3	781.6	177.7	136.7	138.7	146.7	160.7	171.7	172.7	169.7
35°	1750.8	1563.1	686.7	141.7	128.8	129.8	134.8	145.7	164.7	170.7	169.7
37.5°	1924.5	1661.9	569.0	127.8	122.8	121.8	124.8	133.8	150.7	165.7	166.7
40°	2109.1	1765.7	445.2	120.8	117.8	115.8	116.8	120.8	133.8	152.7	156.7
42.5°	2282.8	1859.6	334.4	113.8	112.8	110.8	110.8	111.8	118.8	131.8	133.8
45°	2470.4	1936.4	254.5	108.8	105.8	106.8	102.8	100.8	105.8	106.8	105.8
47.5°	2646.1	2013.3	203.6	102.8	99.8	99.8	94.8	90.8	90.8	81.8	80.9
50°	2810.8	2055.2	162.7	94.8	93.8	92.8	85.8	78.9	72.9	61.9	59.9
52.5°	2947.6	2053.2	125.8	84.8	87.8	84.8	73.9	63.9	54.9	44.9	42.9
55°	2988.5	1957.4	94.8	69.9	74.9	70.9	58.9	49.9	39.9	31.9	30.9
57.5°	2953.6	1811.7	71.9	53.9	57.9	53.9	44.9	36.9	27.9	22.0	20.0
60°	2836.8	1641.0	55.9	41.9	43.9	40.9	33.9	27.9	20.0	14.0	12.0
62.5°	2615.2	1427.4	42.9	32.9	31.9	31.9	26.0	21.0	14.0	8.0	7.0
65°	2146.0	1112.9	32.9	23.0	23.0	23.0	20.0	15.0	9.0	4.0	2.0
67.5°	1347.5	647.8	27.0	18.0	17.0	17.0	14.0	10.0	5.0	1.0	0.0
70°	507.1	237.6	21.0	14.0	13.0	13.0	10.0	6.0	3.0	0.0	0.0
72°	174.7	90.8	17.0	10.0	10.0	9.0	7.0	5.0	2.0	0.0	0.0
72.5°	143.7	72.9	16.0	10.0	9.0	9.0	7.0	5.0	2.0	0.0	0.0
75°	51.9	29.9	11.0	7.0	6.0	6.0	5.0	3.0	1.0	0.0	0.0
77.5°	26.0	19.0	9.0	6.0	5.0	3.0	3.0	2.0	1.0	0.0	0.0
80°	16.0	12.0	5.0	4.0	3.0	2.0	1.0	1.0	0.0	0.0	0.0
82.5°	11.0	7.0	3.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	7.0	3.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	2.0	1.0	0.0	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)