

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: P483260

Luminaire Tested: **IFLD-S-SA2A-750-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483260
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-750-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

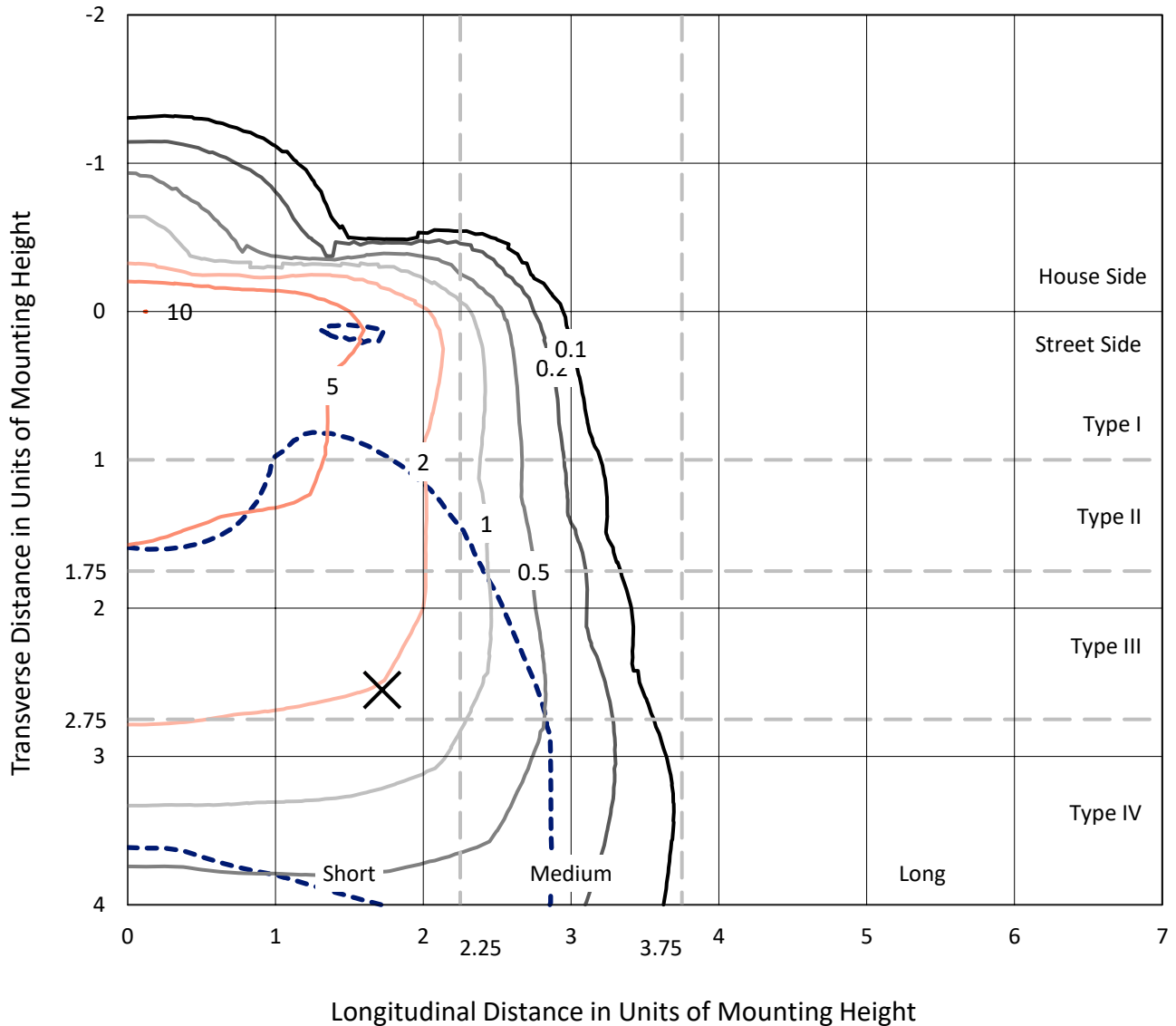
Lumens per Lamp: N/A
Luminaire Lumens: 6828.6 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

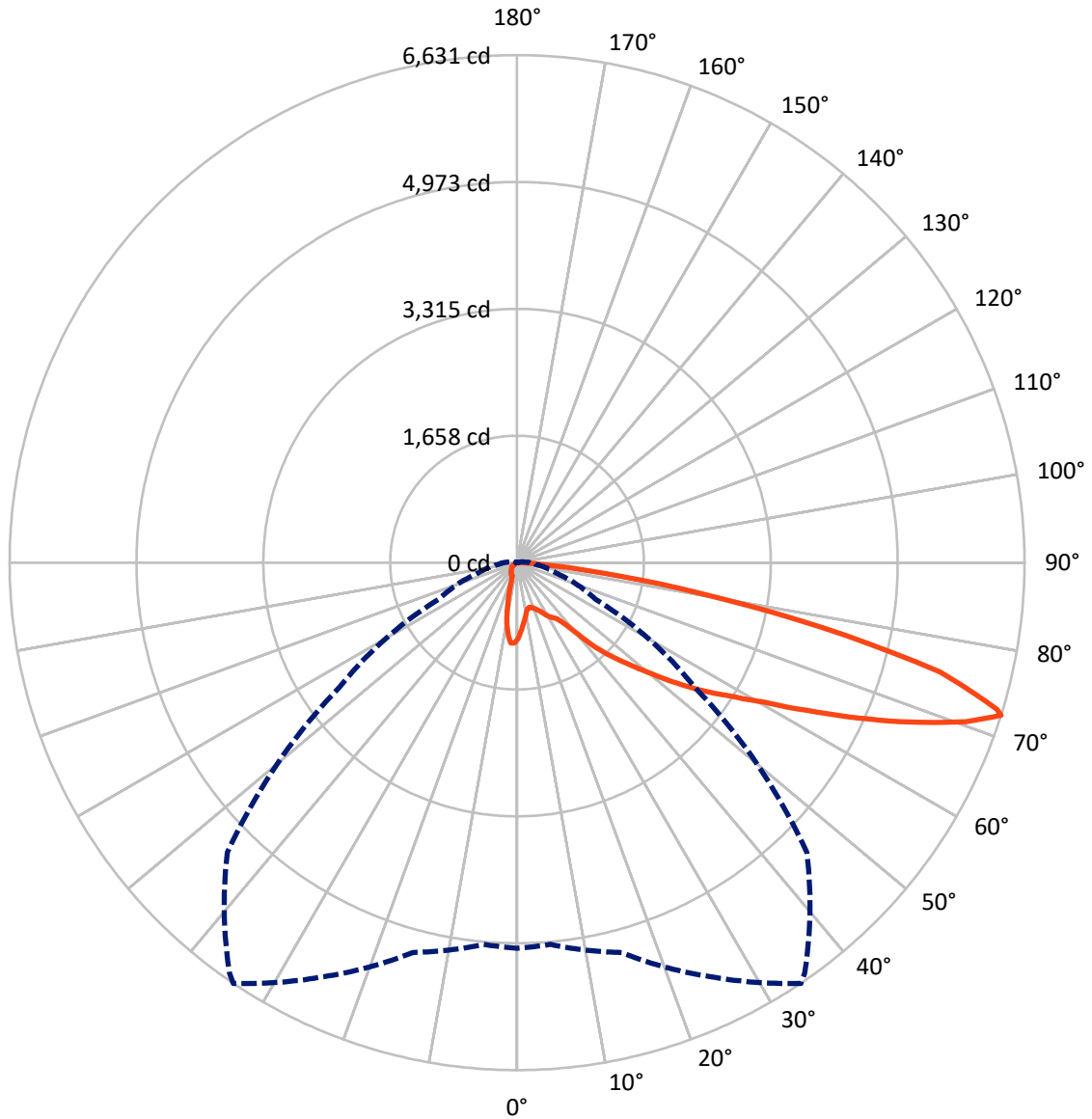
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10 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	699.1	0.0	699.1
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	6129.5	0.0	6129.5
	% Fixture	89.8	0.0	89.8
Total	Lumens	6828.6	0.0	6828.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.3
10°-20°	196.3	2.9
20°-30°	296.4	4.3
30°-40°	480.9	7.0
40°-50°	904.4	13.2
50°-60°	1478.7	21.7
60°-70°	1965.7	28.8
70°-80°	1316.4	19.3
80°-90°	103.2	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°	6828.6	100.0
0°-180°	6828.6	100.0

Coefficient of Utilization



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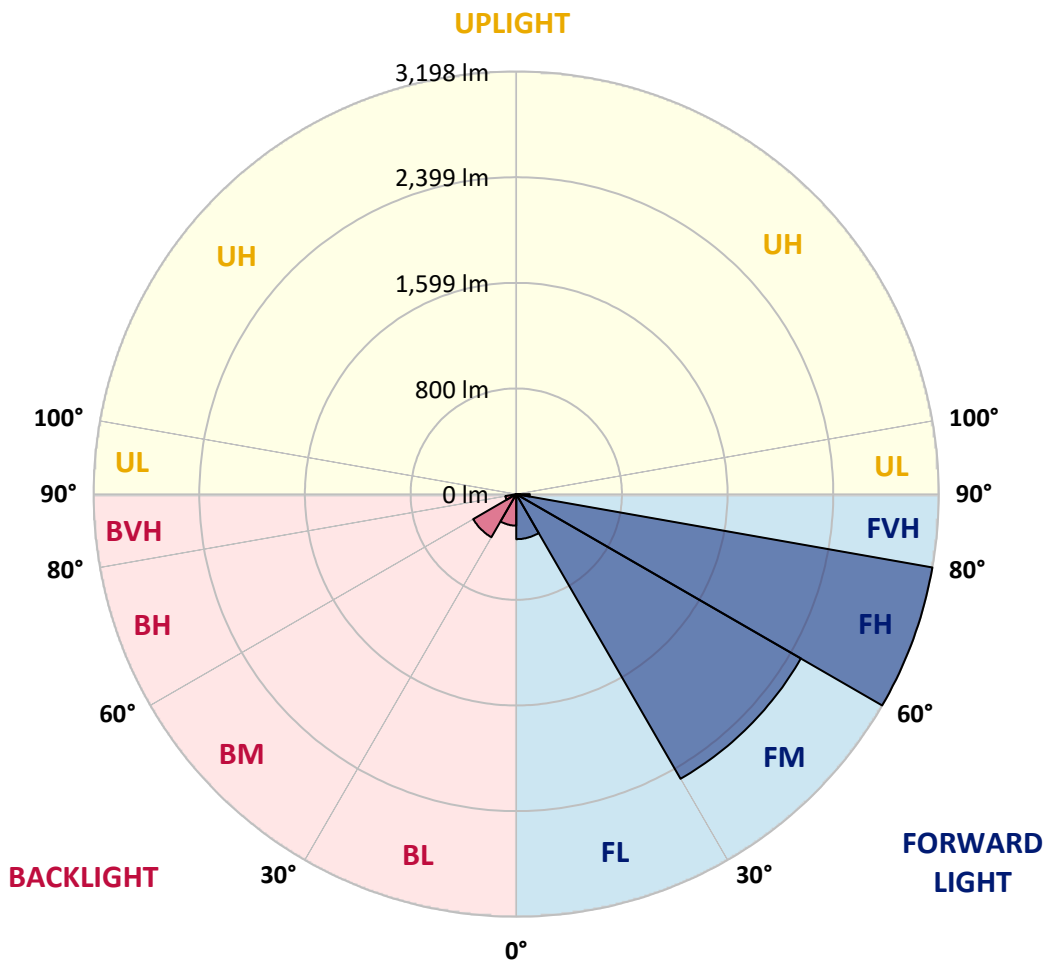
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	340.9	5.0			
FM (30°-60°)	2487.6	36.4			
FH (60°-80°)	3198.5	46.8			G2/5000
FVH (80°-90°)	102.5	1.5			G2/225
BL (0°-30°)	238.5	3.5	B1/500		
BM (30°-60°)	376.3	5.5	B1/1000		
BH (60°-80°)	83.6	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°	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0
2.5°	883.5	881.6	887.5	897.3	907.2	903.3	922.0	941.8	955.6	974.3	997.1
5°	772.0	776.9	782.8	802.6	815.4	818.4	852.9	878.6	921.0	964.5	1004.9
7.5°	670.3	676.2	688.1	709.8	736.4	743.3	777.9	829.2	884.5	941.8	1007.9
10°	596.3	602.2	615.0	628.8	664.4	664.4	711.8	782.8	854.9	922.0	1008.9
12.5°	580.5	583.4	582.4	593.3	616.0	620.9	667.3	745.3	829.2	915.1	1024.7
15°	599.2	601.2	591.3	585.4	605.1	610.1	653.5	722.6	812.4	919.1	1050.4
17.5°	636.7	629.8	610.1	601.2	618.0	620.9	661.4	721.6	810.5	929.9	1080.0
20°	658.4	666.3	631.8	615.0	638.7	642.7	686.1	737.4	820.3	948.7	1121.4
22.5°	696.9	700.9	654.5	643.6	666.3	666.3	715.7	769.0	844.0	979.3	1170.8
25°	751.2	746.3	692.0	681.2	702.9	711.8	761.1	819.4	880.6	1007.9	1216.2
27.5°	793.7	796.7	752.2	723.6	760.1	766.1	819.4	873.7	908.2	1031.6	1271.5
30°	856.9	850.9	803.6	771.0	816.4	817.4	868.7	925.0	961.5	1074.1	1354.4
32.5°	931.9	920.1	865.8	819.4	855.9	864.8	917.1	999.0	1044.4	1154.0	1482.7
35°	1090.8	1062.2	973.4	901.3	904.3	908.2	989.2	1106.6	1158.9	1255.7	1654.5
37.5°	1322.8	1311.0	1210.3	1073.1	1020.7	1008.9	1099.7	1248.8	1313.9	1389.9	1877.6
40°	1552.8	1536.1	1442.3	1338.6	1243.8	1220.2	1265.6	1437.3	1496.6	1576.5	2106.6
42.5°	1808.5	1778.9	1668.3	1584.4	1525.2	1499.5	1481.8	1674.3	1741.4	1795.7	2330.7
45°	2067.2	2018.8	1858.9	1794.7	1763.1	1749.3	1747.3	1972.4	2012.9	2023.7	2579.5
47.5°	2294.2	2241.9	2096.8	2024.7	2001.0	1997.1	2107.6	2315.9	2284.3	2255.7	2856.9
50°	2468.9	2435.4	2330.7	2305.1	2287.3	2280.4	2539.0	2669.3	2523.2	2472.9	3100.7
52.5°	2739.4	2664.4	2545.9	2554.8	2617.0	2618.0	2976.3	3005.0	2721.7	2622.0	3330.7
55°	2955.6	2906.3	2809.5	2796.7	2960.6	2978.3	3368.3	3259.7	2832.2	2764.1	3415.6
57.5°	3210.3	3187.6	3117.5	3119.5	3291.3	3328.8	3716.7	3474.9	2924.0	2855.9	3428.5
60°	3578.5	3513.4	3476.8	3493.6	3696.0	3732.5	4054.3	3629.9	2968.5	2916.1	3396.9
62.5°	3985.2	3909.2	3869.7	3955.6	4250.8	4256.7	4311.0	3767.1	2940.8	2931.9	3193.5
65°	4474.9	4399.9	4368.3	4541.0	4891.5	4869.8	4671.3	3825.3	2853.0	2773.0	2659.5
67.5°	4962.6	4917.1	4852.0	5127.4	5563.7	5563.7	5045.5	3803.6	2622.9	2226.1	1739.4
70°	5193.6	5225.1	5328.8	5761.2	6224.2	6176.8	5414.7	3553.8	1952.6	1195.5	684.1
72°	5039.6	5007.0	5274.5	5968.5	6630.9	6552.9	5352.5	2825.3	1128.3	524.2	237.9
72.5°	4775.0	4805.6	5173.8	5939.9	6554.9	6619.0	5200.5	2606.2	927.9	417.6	179.7
75°	2928.0	2980.3	3861.8	5043.5	5711.8	5639.8	4022.8	1241.9	356.4	177.7	64.2
77.5°	1069.1	1112.6	1873.7	3173.8	4062.2	4016.8	2327.8	441.3	193.5	132.3	32.6
80°	278.4	301.1	636.7	1464.0	2389.0	2391.9	974.3	176.7	131.3	108.6	19.7
82.5°	55.3	61.2	195.5	569.6	1116.5	1101.7	308.0	94.8	98.7	88.8	13.8
85°	6.9	8.9	41.5	193.5	361.3	323.8	76.0	47.4	73.1	69.1	8.9
87.5°	1.0	1.0	9.9	44.4	76.0	74.0	15.8	14.8	32.6	42.4	4.9
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°	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0	999.0
2.5°	1009.9	1013.8	1027.7	1039.5	1053.3	1057.3	1051.3	1061.2	1047.4	1055.3	1057.3
5°	1011.9	1034.6	1060.2	1077.0	1073.1	1063.2	1055.3	1028.6	1009.9	1003.0	1017.8
7.5°	1025.7	1051.3	1079.0	1079.0	1057.3	1005.9	956.6	909.2	869.7	850.0	866.7
10°	1043.4	1070.1	1098.7	1061.2	980.3	886.5	816.4	727.6	667.3	635.7	638.7
12.5°	1067.1	1104.7	1114.5	1027.7	893.4	754.2	626.9	503.5	446.2	400.8	401.8
15°	1097.7	1134.3	1104.7	954.6	782.8	577.5	424.5	307.0	261.6	237.9	237.9
17.5°	1138.2	1165.9	1101.7	887.5	633.8	394.9	260.6	207.3	197.4	193.5	193.5
20°	1185.6	1206.3	1073.1	782.8	470.9	253.7	191.5	185.6	186.6	184.6	184.6
22.5°	1238.9	1245.8	1040.5	661.4	318.9	187.6	178.7	179.7	180.7	178.7	179.7
25°	1295.2	1276.4	993.1	519.3	212.2	170.8	172.8	174.7	175.7	176.7	176.7
27.5°	1358.4	1320.8	927.0	380.1	165.8	160.9	166.8	172.8	173.7	173.7	172.8
30°	1451.2	1389.0	862.8	257.7	146.1	150.1	159.9	166.8	171.8	171.8	170.8
32.5°	1568.6	1460.0	773.0	175.7	135.2	137.2	145.1	158.9	169.8	170.8	167.8
35°	1731.5	1545.9	679.2	140.2	127.3	128.3	133.3	144.1	162.9	168.8	167.8
37.5°	1903.3	1643.7	562.7	126.4	121.4	120.4	123.4	132.3	149.1	163.9	164.9
40°	2085.9	1746.3	440.3	119.4	116.5	114.5	115.5	119.4	132.3	151.0	155.0
42.5°	2257.7	1839.1	330.7	112.5	111.6	109.6	109.6	110.6	117.5	130.3	132.3
45°	2443.3	1915.1	251.7	107.6	104.6	105.6	101.7	99.7	104.6	105.6	104.6
47.5°	2617.0	1991.1	201.4	101.7	98.7	98.7	93.8	89.8	89.8	80.9	80.0
50°	2779.9	2032.6	160.9	93.8	92.8	91.8	84.9	78.0	72.1	61.2	59.2
52.5°	2915.1	2030.6	124.4	83.9	86.9	83.9	73.1	63.2	54.3	44.4	42.4
55°	2955.6	1935.9	93.8	69.1	74.0	70.1	58.2	49.4	39.5	31.6	30.6
57.5°	2921.1	1791.7	71.1	53.3	57.3	53.3	44.4	36.5	27.6	21.7	19.7
60°	2805.6	1622.9	55.3	41.5	43.4	40.5	33.6	27.6	19.7	13.8	11.8
62.5°	2586.4	1411.7	42.4	32.6	31.6	31.6	25.7	20.7	13.8	7.9	6.9
65°	2122.4	1100.7	32.6	22.7	22.7	22.7	19.7	14.8	8.9	3.9	2.0
67.5°	1332.7	640.7	26.7	17.8	16.8	16.8	13.8	9.9	4.9	1.0	0.0
70°	501.5	234.9	20.7	13.8	12.8	12.8	9.9	5.9	3.0	0.0	0.0
72°	172.8	89.8	16.8	9.9	9.9	8.9	6.9	4.9	2.0	0.0	0.0
72.5°	142.2	72.1	15.8	9.9	8.9	8.9	6.9	4.9	2.0	0.0	0.0
75°	51.3	29.6	10.9	6.9	5.9	5.9	4.9	3.0	1.0	0.0	0.0
77.5°	25.7	18.8	8.9	5.9	4.9	3.0	3.0	2.0	1.0	0.0	0.0
80°	15.8	11.8	4.9	3.9	3.0	2.0	1.0	1.0	0.0	0.0	0.0
82.5°	10.9	6.9	3.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	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)