

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: P483768

Luminaire Tested: **IFLD-S-SA2B-830-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483768
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-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

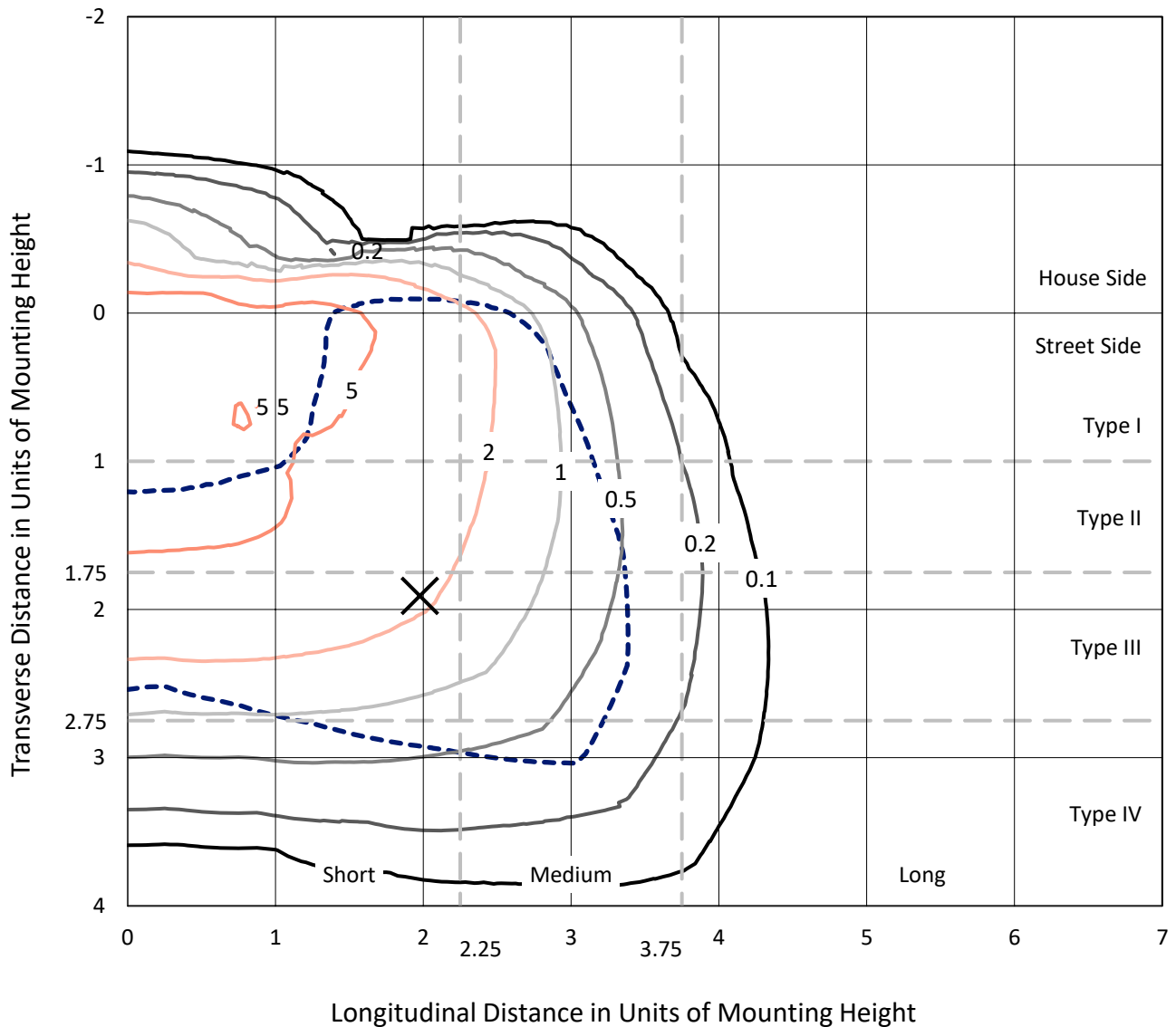
Lumens per Lamp: N/A
Luminaire Lumens: 6694.1 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

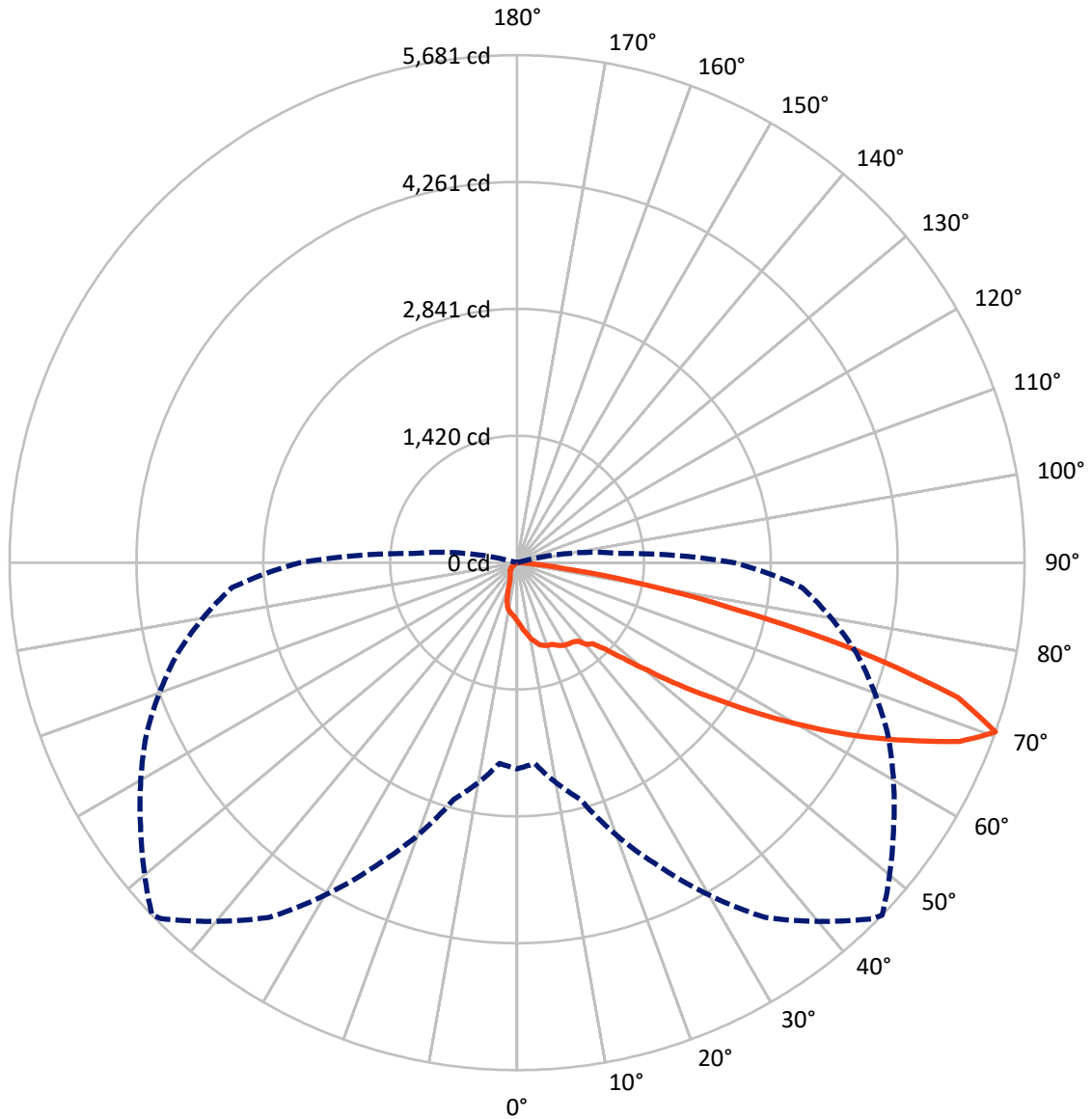
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 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	666.1	0.0	666.1
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	6028.0	0.0	6028.0
	% Fixture	90.0	0.0	90.0
Total	Lumens	6694.1	0.0	6694.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	1.0
10°-20°	197.9	3.0
20°-30°	317.0	4.7
30°-40°	452.4	6.8
40°-50°	781.2	11.7
50°-60°	1495.7	22.3
60°-70°	2214.9	33.1
70°-80°	1097.0	16.4
80°-90°	72.5	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°	6694.1	100.0
0°-180°	6694.1	100.0

Coefficient of Utilization



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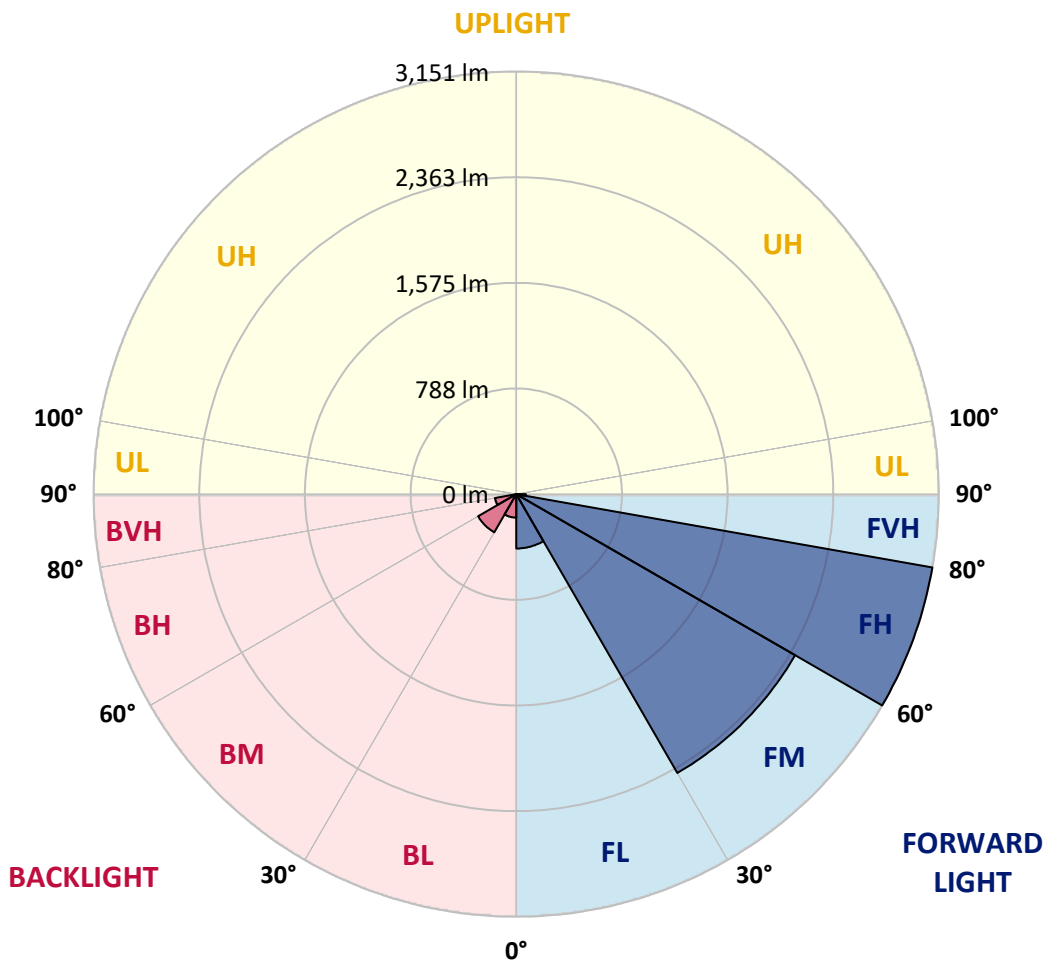
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	405.4	6.1			
FM (30°-60°)	2400.5	35.9			
FH (60°-80°)	3150.6	47.1			G2/5000
FVH (80°-90°)	71.6	1.1			G1/100
BL (0°-30°)	175.0	2.6	B1/500		
BM (30°-60°)	328.8	4.9	B1/1000		
BH (60°-80°)	161.3	2.4	B1/500		G1/500
BVH (80°-90°)	0.9	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°	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1
2.5°	733.3	728.5	720.7	717.9	710.1	706.3	700.5	697.6	687.0	676.4	669.7
5°	822.9	811.3	815.2	803.6	778.6	758.3	757.4	735.2	711.1	691.8	665.8
7.5°	913.5	903.8	889.4	873.0	845.0	815.2	806.5	785.3	751.6	717.9	683.2
10°	981.9	975.1	962.6	939.5	900.9	867.2	868.2	832.5	796.9	758.3	711.1
12.5°	1024.3	1027.2	1008.8	985.7	952.0	909.6	908.6	884.5	844.1	803.6	747.7
15°	1066.7	1077.3	1049.3	1022.3	979.0	948.1	953.9	925.0	885.5	839.3	777.6
17.5°	1073.4	1076.3	1070.5	1031.0	999.2	973.2	974.2	954.9	925.0	874.9	821.9
20°	1061.8	1059.9	1053.2	1024.3	1003.1	987.6	988.6	983.8	967.4	926.9	854.7
22.5°	1028.1	1028.1	1019.4	1000.2	990.5	1005.0	993.4	1011.7	994.4	970.3	910.6
25°	1001.1	1011.7	1006.9	994.4	998.2	1017.5	1023.3	1040.6	1037.8	1007.9	949.1
27.5°	1030.0	1017.5	1020.4	1006.0	1020.4	1049.3	1052.2	1064.7	1063.8	1039.7	983.8
30°	1049.3	1060.9	1038.7	1006.9	1022.3	1071.5	1069.6	1085.9	1093.6	1064.7	1016.6
32.5°	1111.0	1101.3	1083.0	1040.6	1042.6	1070.5	1079.2	1100.4	1105.2	1087.9	1048.4
35°	1237.2	1222.8	1142.8	1079.2	1069.6	1083.0	1088.8	1130.3	1138.9	1119.7	1082.1
37.5°	1431.9	1399.1	1302.7	1162.1	1118.7	1115.8	1115.8	1170.7	1203.5	1159.2	1132.2
40°	1710.3	1664.1	1560.0	1315.3	1183.3	1194.8	1206.4	1236.2	1232.4	1203.5	1197.7
42.5°	2064.9	2029.3	1916.5	1572.5	1306.6	1248.8	1239.1	1279.6	1340.3	1328.7	1324.9
45°	2360.7	2362.6	2290.4	1925.2	1519.5	1373.1	1379.8	1410.7	1512.8	1504.1	1503.2
47.5°	2576.6	2549.6	2539.0	2265.3	1829.8	1609.1	1599.5	1620.7	1753.7	1808.6	1833.7
50°	2773.1	2754.8	2729.8	2595.8	2202.7	1905.0	1895.3	1897.3	2100.6	2177.6	2239.3
52.5°	3016.9	3040.0	2957.2	2875.3	2685.4	2289.4	2278.8	2241.2	2493.7	2599.7	2672.9
55°	3317.5	3274.2	3180.7	3223.1	3147.0	2704.7	2685.4	2641.1	2941.7	2986.1	3063.2
57.5°	3384.0	3351.3	3447.6	3597.9	3671.2	3192.3	3184.6	3104.6	3318.5	3278.0	3495.8
60°	3549.8	3558.4	3692.4	3991.1	4118.3	3755.0	3717.4	3576.7	3683.7	3691.4	3923.6
62.5°	3720.3	3700.1	3999.7	4286.9	4482.5	4287.8	4275.3	3995.9	4117.3	4019.0	4326.4
65°	3595.0	3625.9	4054.7	4535.5	4954.6	4809.1	4798.5	4399.6	4466.1	4343.7	4490.2
67.5°	3149.9	3087.2	3687.5	4421.8	5197.4	5355.5	5343.9	4840.0	4662.7	4341.8	4150.1
70°	2308.7	2254.7	2744.2	3744.4	4849.6	5634.9	5681.2	5146.4	4582.7	3937.1	3201.9
72.5°	1131.2	1132.2	1537.8	2539.0	3836.9	5135.8	5158.9	4718.6	3937.1	2902.2	1813.4
75°	334.4	338.2	569.5	1244.9	2480.2	3900.5	3926.5	3581.6	2728.8	1499.3	618.6
77.5°	122.4	122.4	188.9	467.3	1237.2	2461.9	2460.0	2198.8	1381.7	507.8	144.5
80°	63.6	66.5	98.3	190.8	535.7	1282.5	1330.7	1076.3	525.1	213.9	42.4
82.5°	26.0	28.9	54.0	98.3	257.3	450.0	492.4	422.0	228.4	149.4	19.3
85°	7.7	8.7	26.0	54.9	101.2	112.7	125.3	141.6	143.6	115.6	8.7
87.5°	1.0	1.0	10.6	18.3	22.2	24.1	27.9	27.9	73.2	80.9	4.8
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°	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1	657.1
2.5°	662.0	657.1	649.4	632.1	628.2	615.7	614.8	603.2	607.0	599.3	596.4
5°	657.1	646.5	625.4	611.9	598.4	589.7	583.9	579.1	578.1	574.3	572.4
7.5°	665.8	651.4	618.6	597.4	574.3	566.6	554.0	553.1	546.3	539.6	539.6
10°	694.7	668.7	633.1	597.4	567.5	542.5	513.6	492.4	484.7	467.3	469.3
12.5°	717.9	694.7	642.7	606.1	560.8	503.9	440.3	391.2	368.1	345.9	354.6
15°	750.6	716.9	661.0	608.0	534.8	436.5	332.4	277.5	256.3	251.5	250.5
17.5°	786.3	750.6	684.1	603.2	481.8	337.2	244.7	212.9	216.8	222.6	221.6
20°	825.8	782.4	701.5	586.8	398.0	244.7	200.4	199.5	205.2	213.9	215.8
22.5°	867.2	829.6	722.7	537.7	296.8	196.6	192.7	192.7	196.6	207.2	205.2
25°	913.5	863.3	733.3	461.5	212.9	181.1	183.1	186.9	188.9	197.5	198.5
27.5°	949.1	900.9	736.2	370.0	173.4	167.7	172.5	177.3	180.2	186.9	189.8
30°	981.9	948.1	720.7	275.6	159.0	156.1	158.0	164.8	170.6	176.3	176.3
32.5°	1023.3	975.1	685.1	195.6	150.3	145.5	144.5	147.4	154.2	160.9	160.9
35°	1065.7	1020.4	628.2	157.1	142.6	135.9	132.0	129.1	132.0	136.8	140.7
37.5°	1127.4	1088.8	556.9	144.5	136.8	127.2	119.5	112.7	107.9	107.0	109.8
40°	1215.0	1165.9	465.4	135.9	130.1	118.5	107.0	95.4	84.8	78.0	79.0
42.5°	1348.0	1279.6	366.2	131.0	125.3	108.9	92.5	76.1	62.6	55.9	55.9
45°	1537.8	1429.9	268.8	126.2	119.5	97.3	76.1	56.9	43.4	39.5	40.5
47.5°	1824.0	1611.1	192.7	118.5	111.8	84.8	59.7	40.5	31.8	29.9	30.8
50°	2197.9	1825.9	150.3	109.8	102.1	71.3	44.3	29.9	25.1	24.1	25.1
52.5°	2590.0	2042.7	132.0	102.1	87.7	56.9	32.8	24.1	21.2	20.2	21.2
55°	2925.4	2182.5	114.7	90.6	70.3	42.4	26.0	21.2	18.3	15.4	15.4
57.5°	3264.5	2252.8	90.6	75.2	52.0	31.8	22.2	18.3	15.4	12.5	11.6
60°	3540.1	2302.9	64.6	55.9	36.6	25.1	19.3	16.4	12.5	9.6	8.7
62.5°	3721.3	2159.3	47.2	42.4	27.0	21.2	16.4	13.5	9.6	6.7	6.7
65°	3631.7	1960.8	36.6	29.9	20.2	16.4	13.5	9.6	6.7	3.9	2.9
67.5°	3258.8	1597.6	29.9	22.2	15.4	12.5	10.6	7.7	3.9	1.0	1.0
70°	2431.1	1170.7	24.1	16.4	12.5	9.6	7.7	4.8	1.9	1.0	0.0
72.5°	1329.7	640.8	19.3	13.5	9.6	7.7	5.8	3.9	1.9	0.0	0.0
75°	439.4	170.6	14.5	9.6	5.8	4.8	3.9	2.9	1.0	0.0	0.0
77.5°	106.0	44.3	11.6	8.7	4.8	2.9	1.9	1.0	1.0	0.0	0.0
80°	32.8	18.3	8.7	5.8	3.9	2.9	1.0	0.0	0.0	0.0	0.0
82.5°	13.5	8.7	3.9	3.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0
85°	6.7	4.8	2.9	1.9	1.9	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	1.9	1.0	1.0	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)