

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: P483572

Luminaire Tested: **IFLD-S-SA2A-735-U-T4W-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483572
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-735-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

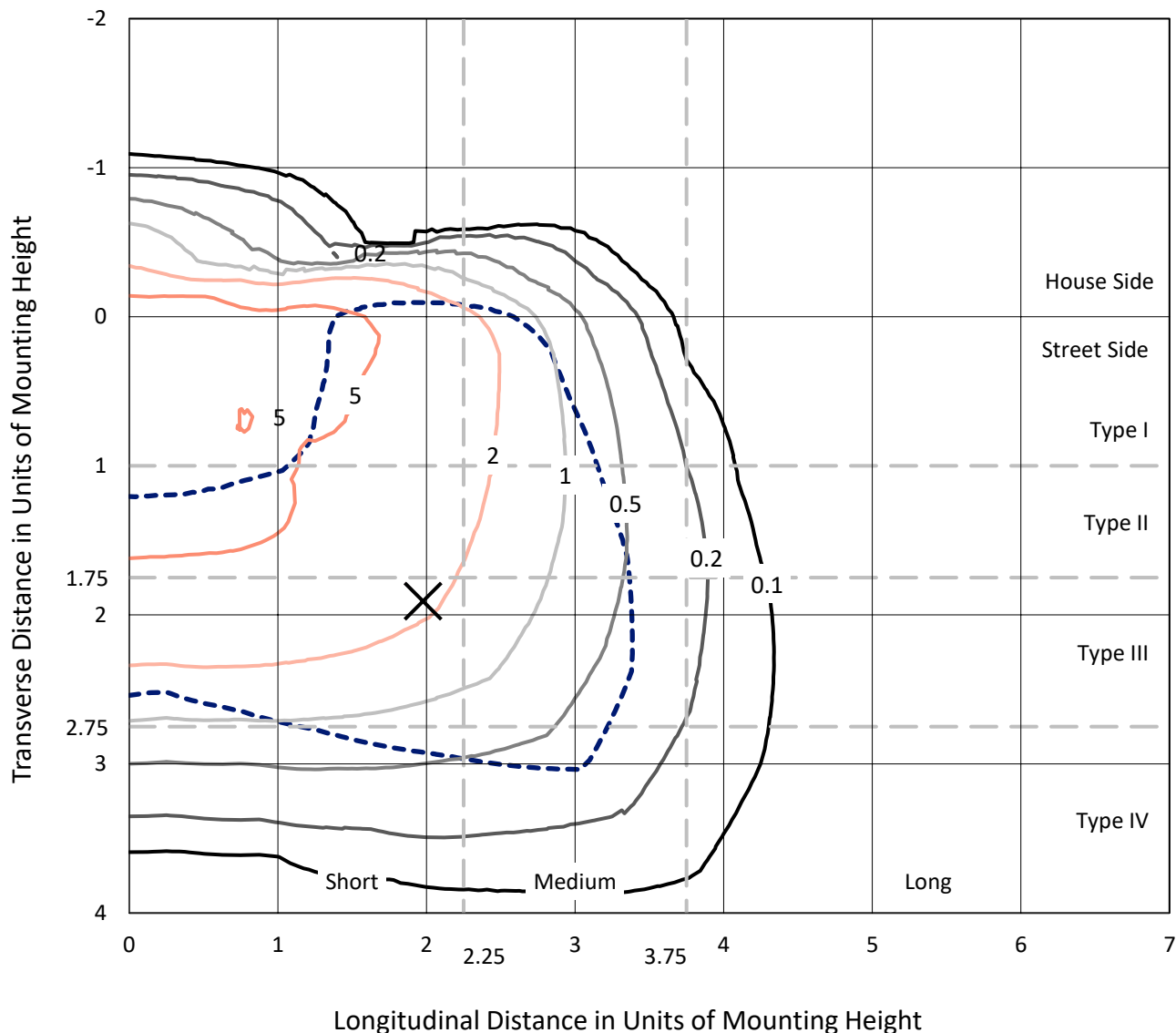
Lumens per Lamp: N/A
Luminaire Lumens: 6718.5 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (A_{in}): 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

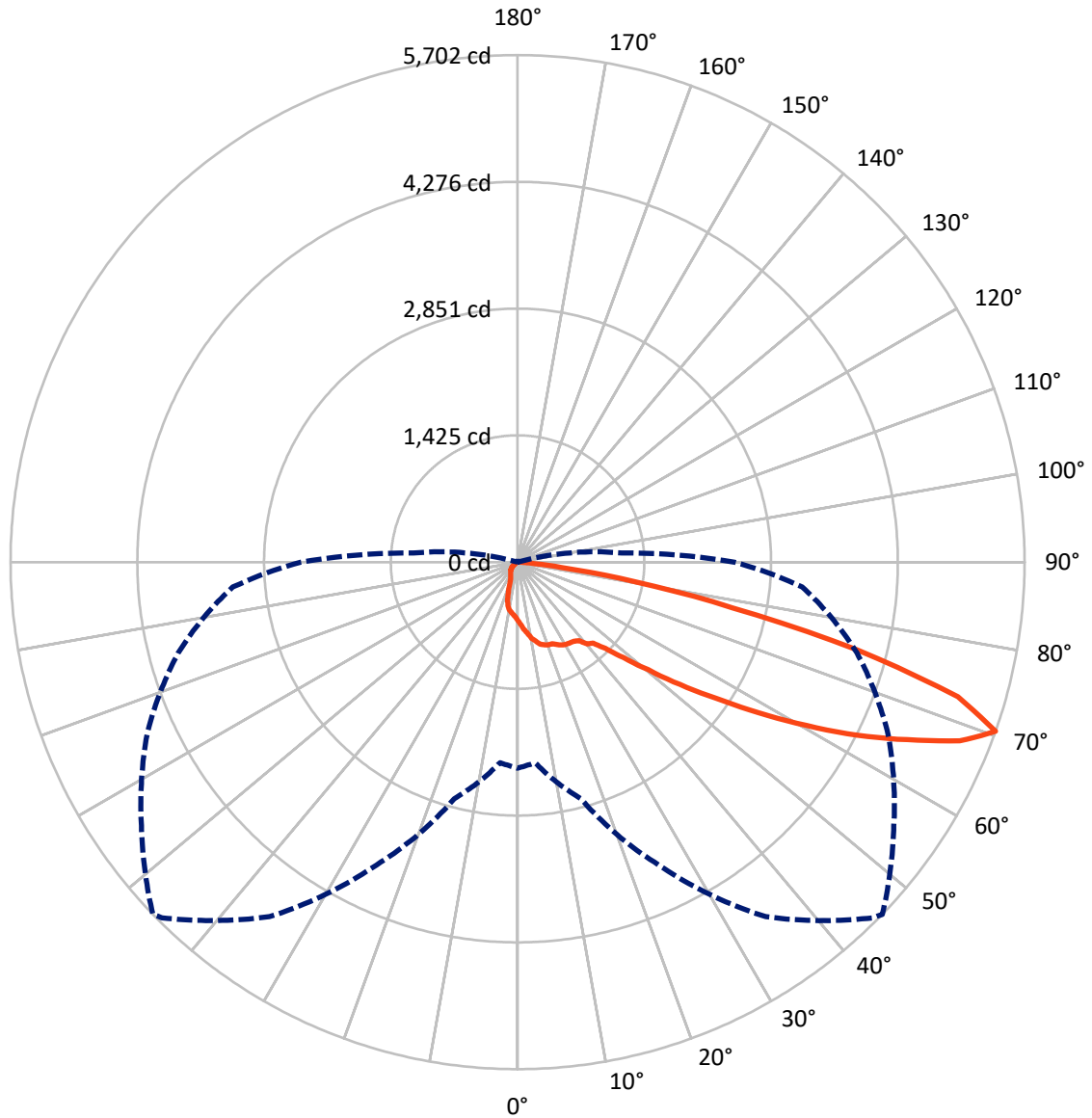
✕ Max cd
 - - - 1/2 Max cd



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	668.5	0.0	668.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	6050.0	0.0	6050.0
	% Fixture	90.0	0.0	90.0
Total	Lumens	6718.5	0.0	6718.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	1.0
10°-20°	198.6	3.0
20°-30°	318.1	4.7
30°-40°	454.1	6.8
40°-50°	784.1	11.7
50°-60°	1501.2	22.3
60°-70°	2223.0	33.1
70°-80°	1101.0	16.4
80°-90°	72.8	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°	6718.5	100.0
0°-180°	6718.5	100.0

Coefficient of Utilization



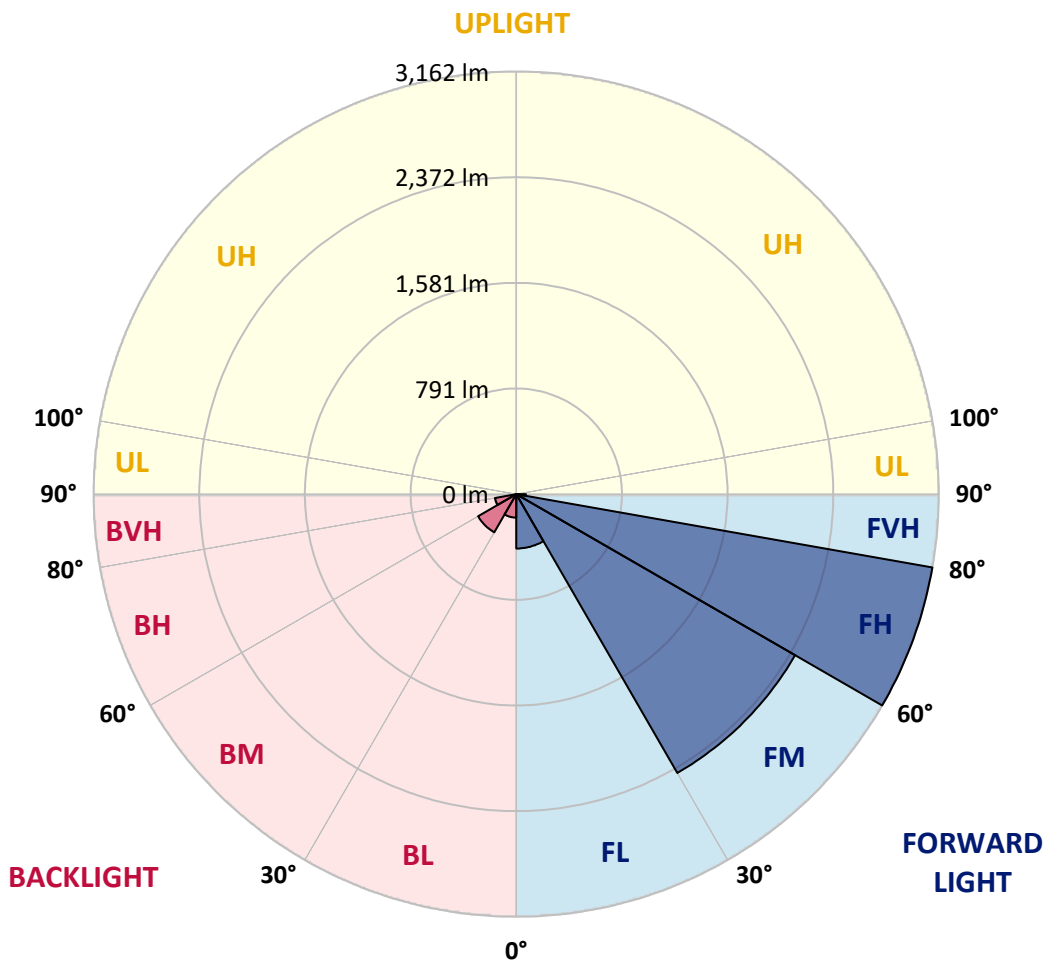
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.9	6.1			
FM (30°-60°)	2409.3	35.9			
FH (60°-80°)	3162.1	47.1			G2/5000
FVH (80°-90°)	71.8	1.1			G1/100
BL (0°-30°)	175.6	2.6	B1/500		
BM (30°-60°)	330.0	4.9	B1/1000		
BH (60°-80°)	161.9	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°	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6
2.5°	736.0	731.1	723.4	720.5	712.7	708.9	703.1	700.2	689.5	678.9	672.1
5°	825.9	814.3	818.2	806.5	781.4	761.1	760.1	737.9	713.7	694.4	668.3
7.5°	916.8	907.1	892.6	876.2	848.1	818.2	809.4	788.2	754.3	720.5	685.7
10°	985.5	978.7	966.1	942.9	904.2	870.4	871.3	835.6	799.8	761.1	713.7
12.5°	1028.0	1030.9	1012.5	989.3	955.5	912.9	912.0	887.8	847.2	806.5	750.5
15°	1070.6	1081.2	1053.2	1026.1	982.6	951.6	957.4	928.4	888.8	842.3	780.4
17.5°	1077.3	1080.2	1074.4	1034.8	1002.9	976.8	977.7	958.4	928.4	878.1	824.9
20°	1065.7	1063.8	1057.0	1028.0	1006.7	991.3	992.2	987.4	971.0	930.3	857.8
22.5°	1031.9	1031.9	1023.2	1003.8	994.2	1008.7	997.1	1015.4	998.0	973.9	913.9
25°	1004.8	1015.4	1010.6	998.0	1001.9	1021.2	1027.0	1044.5	1041.5	1011.6	952.6
27.5°	1033.8	1021.2	1024.1	1009.6	1024.1	1053.2	1056.1	1068.6	1067.7	1043.5	987.4
30°	1053.2	1064.8	1042.5	1010.6	1026.1	1075.4	1073.5	1089.9	1097.6	1068.6	1020.3
32.5°	1115.0	1105.4	1087.0	1044.5	1046.4	1074.4	1083.1	1104.4	1109.2	1091.8	1052.2
35°	1241.7	1227.2	1147.0	1083.1	1073.5	1087.0	1092.8	1134.4	1143.1	1123.8	1086.0
37.5°	1437.1	1404.2	1307.5	1166.3	1122.8	1119.9	1119.9	1175.0	1207.9	1163.4	1136.3
40°	1716.6	1670.2	1565.7	1320.1	1187.6	1199.2	1210.8	1240.8	1236.9	1207.9	1202.1
42.5°	2072.5	2036.7	1923.5	1578.3	1311.4	1253.3	1243.7	1284.3	1345.2	1333.6	1329.7
45°	2369.4	2371.3	2298.8	1932.2	1525.1	1378.1	1384.9	1415.8	1518.3	1509.6	1508.7
47.5°	2586.0	2558.9	2548.3	2273.6	1836.5	1615.0	1605.4	1626.6	1760.1	1815.2	1840.4
50°	2783.3	2764.9	2739.7	2605.3	2210.8	1911.9	1902.3	1904.2	2108.2	2185.6	2247.5
52.5°	3027.9	3051.1	2968.0	2885.8	2695.3	2297.8	2287.2	2249.4	2502.8	2609.2	2682.7
55°	3329.7	3286.2	3192.3	3234.9	3158.5	2714.6	2695.3	2650.8	2952.5	2997.0	3074.4
57.5°	3396.4	3363.5	3460.2	3611.1	3684.6	3203.9	3196.2	3115.9	3330.6	3290.0	3508.6
60°	3562.7	3571.4	3705.9	4005.7	4133.3	3768.7	3731.0	3589.8	3697.2	3704.9	3938.0
62.5°	3733.9	3713.6	4014.4	4302.6	4498.9	4303.5	4291.0	4010.5	4132.3	4033.7	4342.2
65°	3608.2	3639.1	4069.5	4552.1	4972.7	4826.7	4816.1	4415.7	4482.4	4359.6	4506.6
67.5°	3161.4	3098.5	3701.0	4437.9	5216.5	5375.1	5363.4	4857.7	4679.7	4357.7	4165.2
70°	2317.1	2263.0	2754.3	3758.1	4867.3	5655.5	5701.9	5165.2	4599.5	3951.5	3213.6
72.5°	1135.4	1136.3	1543.5	2548.3	3850.9	5154.6	5177.8	4735.8	3951.5	2912.9	1820.1
75°	335.6	339.4	571.5	1249.5	2489.3	3914.8	3940.9	3594.7	2738.8	1504.8	620.9
77.5°	122.8	122.8	189.5	469.0	1241.7	2470.9	2469.0	2206.9	1386.8	509.7	145.1
80°	63.8	66.7	98.6	191.5	537.7	1287.2	1335.5	1080.2	527.1	214.7	42.6
82.5°	26.1	29.0	54.2	98.6	258.2	451.6	494.2	423.6	229.2	149.9	19.3
85°	7.7	8.7	26.1	55.1	101.5	113.1	125.7	142.2	144.1	116.1	8.7
87.5°	1.0	1.0	10.6	18.4	22.2	24.2	28.0	28.0	73.5	81.2	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°	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6
2.5°	664.4	659.6	651.8	634.4	630.5	618.0	617.0	605.4	609.3	601.5	598.6
5°	659.6	648.9	627.6	614.1	600.6	591.9	586.1	581.2	580.3	576.4	574.4
7.5°	668.3	653.7	620.9	599.6	576.4	568.6	556.1	555.1	548.3	541.6	541.6
10°	697.3	671.2	635.4	599.6	569.6	544.5	515.5	494.2	486.4	469.0	471.0
12.5°	720.5	697.3	645.0	608.3	562.8	505.8	442.0	392.6	369.4	347.2	355.9
15°	753.4	719.5	663.4	610.2	536.7	438.1	333.6	278.5	257.2	252.4	251.4
17.5°	789.1	753.4	686.6	605.4	483.5	338.5	245.6	213.7	217.6	223.4	222.4
20°	828.8	785.3	704.0	589.0	399.4	245.6	201.2	200.2	206.0	214.7	216.6
22.5°	870.4	832.7	725.3	539.6	297.9	197.3	193.4	193.4	197.3	207.9	206.0
25°	916.8	866.5	736.0	463.2	213.7	181.8	183.7	187.6	189.5	198.3	199.2
27.5°	952.6	904.2	738.9	371.4	174.1	168.3	173.1	177.9	180.8	187.6	190.5
30°	985.5	951.6	723.4	276.6	159.6	156.7	158.6	165.4	171.2	177.0	177.0
32.5°	1027.0	978.7	687.6	196.3	150.9	146.0	145.1	148.0	154.7	161.5	161.5
35°	1069.6	1024.1	630.5	157.6	143.1	136.4	132.5	129.6	132.5	137.3	141.2
37.5°	1131.5	1092.8	559.0	145.1	137.3	127.7	119.9	113.1	108.3	107.3	110.2
40°	1219.5	1170.2	467.1	136.4	130.6	119.0	107.3	95.7	85.1	78.3	79.3
42.5°	1353.0	1284.3	367.5	131.5	125.7	109.3	92.8	76.4	62.9	56.1	56.1
45°	1543.5	1435.2	269.8	126.7	119.9	97.7	76.4	57.1	43.5	39.7	40.6
47.5°	1830.7	1617.0	193.4	119.0	112.2	85.1	60.0	40.6	31.9	30.0	30.9
50°	2205.9	1832.6	150.9	110.2	102.5	71.6	44.5	30.0	25.1	24.2	25.1
52.5°	2599.5	2050.2	132.5	102.5	88.0	57.1	32.9	24.2	21.3	20.3	21.3
55°	2936.1	2190.4	115.1	90.9	70.6	42.6	26.1	21.3	18.4	15.5	15.5
57.5°	3276.5	2261.0	90.9	75.4	52.2	31.9	22.2	18.4	15.5	12.6	11.6
60°	3553.1	2311.3	64.8	56.1	36.7	25.1	19.3	16.4	12.6	9.7	8.7
62.5°	3734.9	2167.2	47.4	42.6	27.1	21.3	16.4	13.5	9.7	6.8	6.8
65°	3644.9	1968.0	36.7	30.0	20.3	16.4	13.5	9.7	6.8	3.9	2.9
67.5°	3270.7	1603.4	30.0	22.2	15.5	12.6	10.6	7.7	3.9	1.0	1.0
70°	2440.0	1175.0	24.2	16.4	12.6	9.7	7.7	4.8	1.9	1.0	0.0
72.5°	1334.6	643.1	19.3	13.5	9.7	7.7	5.8	3.9	1.9	0.0	0.0
75°	441.0	171.2	14.5	9.7	5.8	4.8	3.9	2.9	1.0	0.0	0.0
77.5°	106.4	44.5	11.6	8.7	4.8	2.9	1.9	1.0	1.0	0.0	0.0
80°	32.9	18.4	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°	6.8	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)