

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: P483104

Luminaire Tested: **IFLD-S-SA2A-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483104
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-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

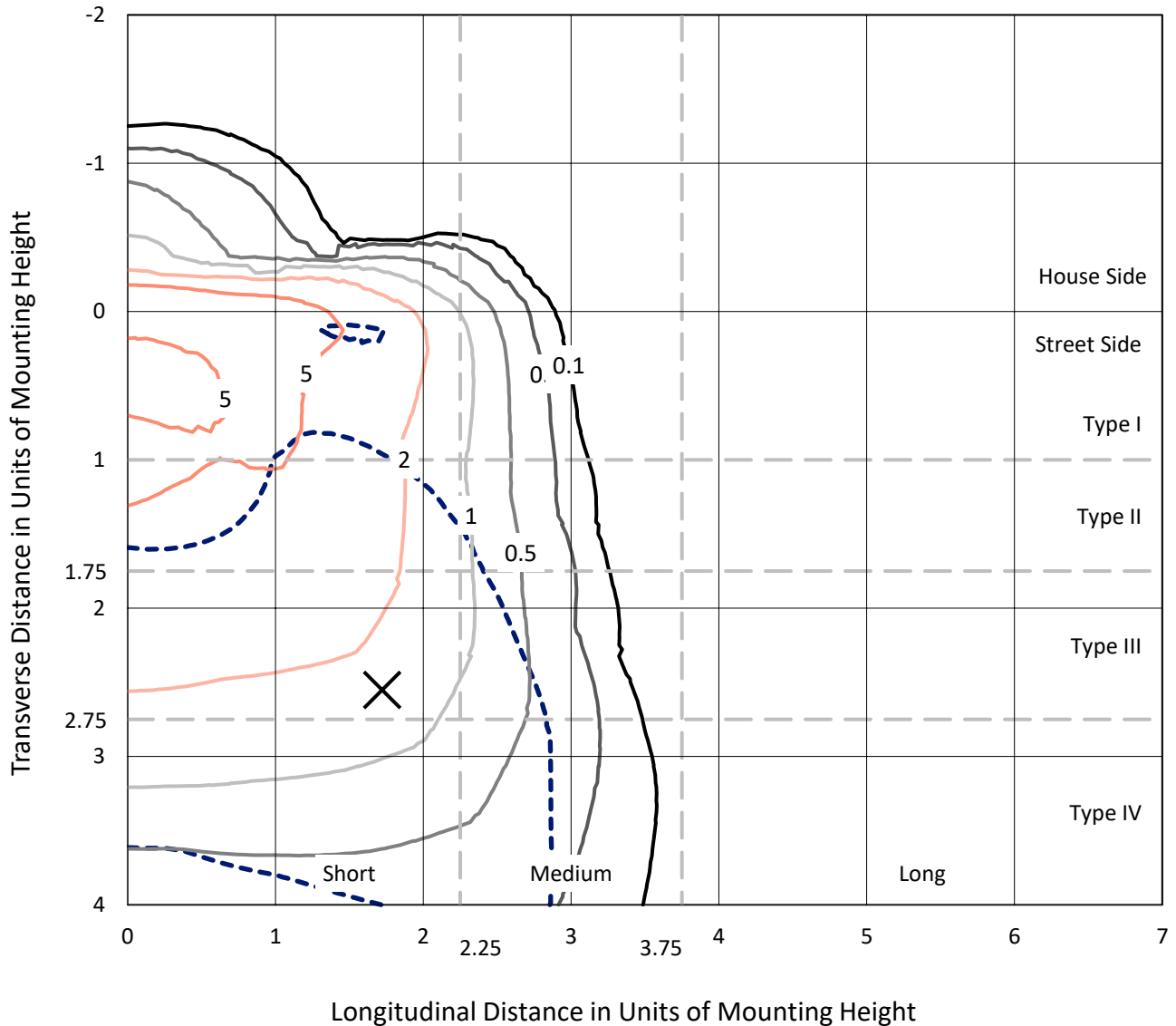
Lumens per Lamp: N/A
Luminaire Lumens: 5582.9 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

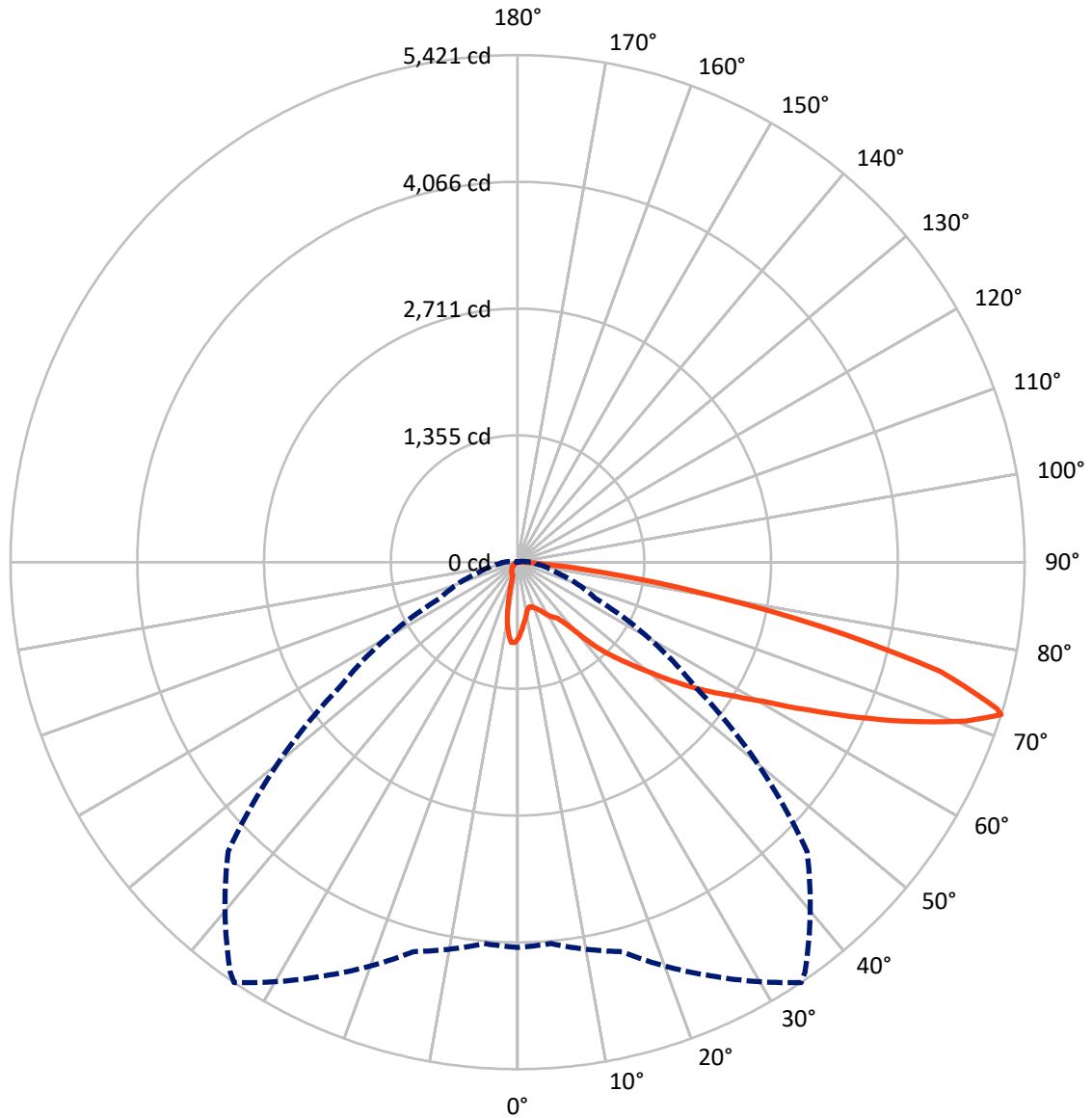
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 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	571.5	0.0	571.5
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	5011.3	0.0	5011.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	5582.9	0.0	5582.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	1.3
10°-20°	160.5	2.9
20°-30°	242.3	4.3
30°-40°	393.2	7.0
40°-50°	739.4	13.2
50°-60°	1208.9	21.7
60°-70°	1607.1	28.8
70°-80°	1076.2	19.3
80°-90°	84.3	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°	5582.9	100.0
0°-180°	5582.9	100.0



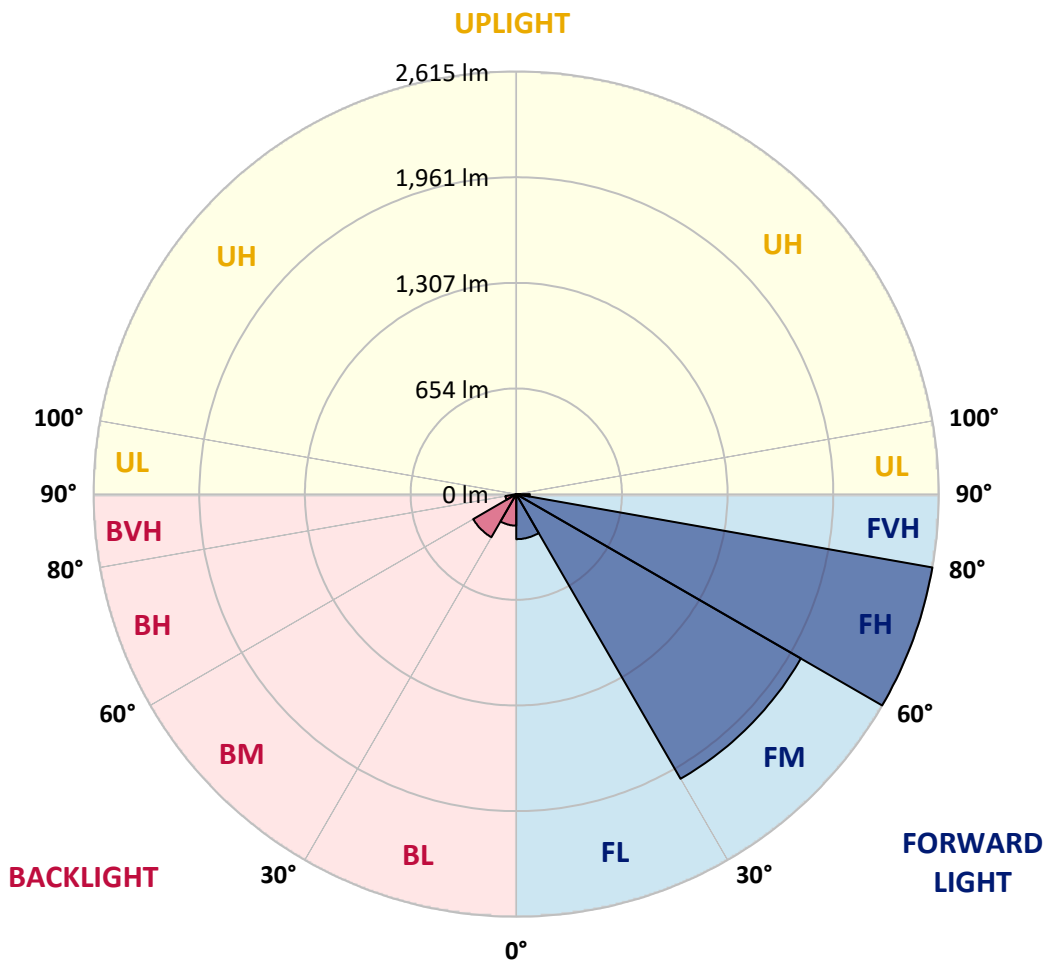
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	278.7	5.0			
FM (30°-60°)	2033.8	36.4			
FH (60°-80°)	2615.0	46.8			G2/5000
FVH (80°-90°)	83.8	1.5			G1/100
BL (0°-30°)	195.0	3.5	B1/500		
BM (30°-60°)	307.7	5.5	B1/1000		
BH (60°-80°)	68.3	1.2	B0/110		G0/110
BVH (80°-90°)	0.5	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°	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8
2.5°	722.4	720.7	725.6	733.7	741.7	738.5	753.8	770.0	781.3	796.6	815.2
5°	631.1	635.2	640.0	656.2	666.7	669.1	697.3	718.3	753.0	788.5	821.6
7.5°	548.0	552.9	562.5	580.3	602.1	607.7	636.0	678.0	723.2	770.0	824.0
10°	487.5	492.3	502.8	514.1	543.2	543.2	581.9	640.0	698.9	753.8	824.9
12.5°	474.6	477.0	476.2	485.1	503.6	507.7	545.6	609.4	678.0	748.2	837.8
15°	489.9	491.5	483.5	478.6	494.7	498.8	534.3	590.8	664.2	751.4	858.8
17.5°	520.6	514.9	498.8	491.5	505.2	507.7	540.8	590.0	662.6	760.3	883.0
20°	538.3	544.8	516.5	502.8	522.2	525.4	560.9	602.9	670.7	775.6	916.9
22.5°	569.8	573.0	535.1	526.2	544.8	544.8	585.1	628.7	690.1	800.6	957.2
25°	614.2	610.2	565.8	556.9	574.7	581.9	622.3	669.9	719.9	824.0	994.3
27.5°	648.9	651.3	615.0	591.6	621.5	626.3	669.9	714.3	742.5	843.4	1039.5
30°	700.6	695.7	657.0	630.3	667.5	668.3	710.2	756.2	786.1	878.1	1107.3
32.5°	761.9	752.2	707.8	669.9	699.8	707.0	749.8	816.8	853.9	943.5	1212.3
35°	891.8	868.4	795.8	736.9	739.3	742.5	808.7	904.8	947.5	1026.6	1352.7
37.5°	1081.5	1071.8	989.5	877.3	834.5	824.9	899.1	1021.0	1074.2	1136.4	1535.1
40°	1269.6	1255.8	1179.2	1094.4	1016.9	997.6	1034.7	1175.1	1223.6	1288.9	1722.3
42.5°	1478.6	1454.4	1364.0	1295.4	1247.0	1226.0	1211.5	1368.8	1423.7	1468.1	1905.6
45°	1690.1	1650.5	1519.8	1467.3	1441.5	1430.2	1428.6	1612.6	1645.7	1654.5	2108.9
47.5°	1875.7	1832.9	1714.3	1655.4	1636.0	1632.8	1723.2	1893.4	1867.6	1844.2	2335.7
50°	2018.5	1991.1	1905.6	1884.6	1870.0	1864.4	2075.9	2182.4	2062.9	2021.8	2535.1
52.5°	2239.7	2178.4	2081.5	2088.8	2139.6	2140.4	2433.4	2456.8	2225.2	2143.6	2723.1
55°	2416.4	2376.1	2297.0	2286.5	2420.5	2435.0	2753.8	2665.0	2315.6	2259.9	2792.6
57.5°	2624.7	2606.1	2548.8	2550.4	2690.9	2721.5	3038.7	2841.0	2390.6	2334.9	2803.0
60°	2925.7	2872.5	2842.6	2856.3	3021.8	3051.6	3314.7	2967.7	2426.9	2384.2	2777.2
62.5°	3258.2	3196.1	3163.8	3234.0	3475.4	3480.2	3524.6	3079.9	2404.3	2397.1	2611.0
65°	3658.6	3597.2	3571.4	3712.6	3999.2	3981.4	3819.2	3127.5	2332.5	2267.1	2174.3
67.5°	4057.3	4020.1	3966.9	4192.1	4548.8	4548.8	4125.1	3109.7	2144.5	1820.0	1422.1
70°	4246.1	4272.0	4356.7	4710.2	5088.7	5050.0	4426.9	2905.5	1596.4	977.4	559.3
72°	4120.2	4093.6	4312.3	4879.7	5421.3	5357.5	4376.1	2309.9	922.5	428.6	194.5
72.5°	3903.9	3928.9	4230.0	4856.3	5359.1	5411.6	4251.8	2130.7	758.7	341.4	146.9
75°	2393.8	2436.6	3157.4	4123.5	4669.9	4610.9	3288.9	1015.3	291.4	145.3	52.5
77.5°	874.1	909.6	1531.9	2594.8	3321.2	3284.1	1903.1	360.8	158.2	108.2	26.6
80°	227.6	246.2	520.6	1196.9	1953.2	1955.6	796.6	144.5	107.3	88.8	16.1
82.5°	45.2	50.0	159.8	465.7	912.8	900.7	251.8	77.5	80.7	72.6	11.3
85°	5.6	7.3	33.9	158.2	295.4	264.7	62.1	38.7	59.7	56.5	7.3
87.5°	0.8	0.8	8.1	36.3	62.1	60.5	12.9	12.1	26.6	34.7	4.0
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°	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8	816.8
2.5°	825.7	828.9	840.2	849.9	861.2	864.4	859.6	867.6	856.3	862.8	864.4
5°	827.3	845.8	866.8	880.5	877.3	869.2	862.8	841.0	825.7	820.0	832.1
7.5°	838.6	859.6	882.2	882.2	864.4	822.4	782.1	743.3	711.1	694.9	708.6
10°	853.1	874.9	898.3	867.6	801.4	724.8	667.5	594.8	545.6	519.8	522.2
12.5°	872.5	903.1	911.2	840.2	730.4	616.6	512.5	411.6	364.8	327.7	328.5
15°	897.5	927.4	903.1	780.5	640.0	472.2	347.1	251.0	213.9	194.5	194.5
17.5°	930.6	953.2	900.7	725.6	518.2	322.8	213.1	169.5	161.4	158.2	158.2
20°	969.3	986.3	877.3	640.0	385.0	207.4	156.6	151.7	152.5	150.9	150.9
22.5°	1012.9	1018.6	850.7	540.8	260.7	153.3	146.1	146.9	147.7	146.1	146.9
25°	1058.9	1043.6	811.9	424.5	173.5	139.6	141.2	142.9	143.7	144.5	144.5
27.5°	1110.6	1079.9	757.9	310.7	135.6	131.6	136.4	141.2	142.0	142.0	141.2
30°	1186.4	1135.6	705.4	210.7	119.5	122.7	130.7	136.4	140.4	140.4	139.6
32.5°	1282.5	1193.7	632.0	143.7	110.6	112.2	118.6	129.9	138.8	139.6	137.2
35°	1415.6	1263.9	555.3	114.6	104.1	104.9	109.0	117.8	133.2	138.0	137.2
37.5°	1556.1	1343.8	460.0	103.3	99.3	98.5	100.9	108.2	121.9	134.0	134.8
40°	1705.4	1427.8	360.0	97.7	95.2	93.6	94.4	97.7	108.2	123.5	126.7
42.5°	1845.8	1503.6	270.4	92.0	91.2	89.6	89.6	90.4	96.0	106.5	108.2
45°	1997.6	1565.8	205.8	88.0	85.6	86.4	83.1	81.5	85.6	86.4	85.6
47.5°	2139.6	1627.9	164.6	83.1	80.7	80.7	76.7	73.4	73.4	66.2	65.4
50°	2272.8	1661.8	131.6	76.7	75.9	75.1	69.4	63.8	58.9	50.0	48.4
52.5°	2383.4	1660.2	101.7	68.6	71.0	68.6	59.7	51.7	44.4	36.3	34.7
55°	2416.4	1582.7	76.7	56.5	60.5	57.3	47.6	40.4	32.3	25.8	25.0
57.5°	2388.2	1464.9	58.1	43.6	46.8	43.6	36.3	29.9	22.6	17.8	16.1
60°	2293.8	1326.9	45.2	33.9	35.5	33.1	27.4	22.6	16.1	11.3	9.7
62.5°	2114.6	1154.1	34.7	26.6	25.8	25.8	21.0	16.9	11.3	6.5	5.6
65°	1735.3	899.9	26.6	18.6	18.6	18.6	16.1	12.1	7.3	3.2	1.6
67.5°	1089.6	523.8	21.8	14.5	13.7	13.7	11.3	8.1	4.0	0.8	0.0
70°	410.0	192.1	16.9	11.3	10.5	10.5	8.1	4.8	2.4	0.0	0.0
72°	141.2	73.4	13.7	8.1	8.1	7.3	5.6	4.0	1.6	0.0	0.0
72.5°	116.2	58.9	12.9	8.1	7.3	7.3	5.6	4.0	1.6	0.0	0.0
75°	42.0	24.2	8.9	5.6	4.8	4.8	4.0	2.4	0.8	0.0	0.0
77.5°	21.0	15.3	7.3	4.8	4.0	2.4	2.4	1.6	0.8	0.0	0.0
80°	12.9	9.7	4.0	3.2	2.4	1.6	0.8	0.8	0.0	0.0	0.0
82.5°	8.9	5.6	2.4	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0
85°	5.6	2.4	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	1.6	0.8	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)