

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: P483143

Luminaire Tested: **IFLD-S-SA2A-730-U-T4FT-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483143
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-730-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

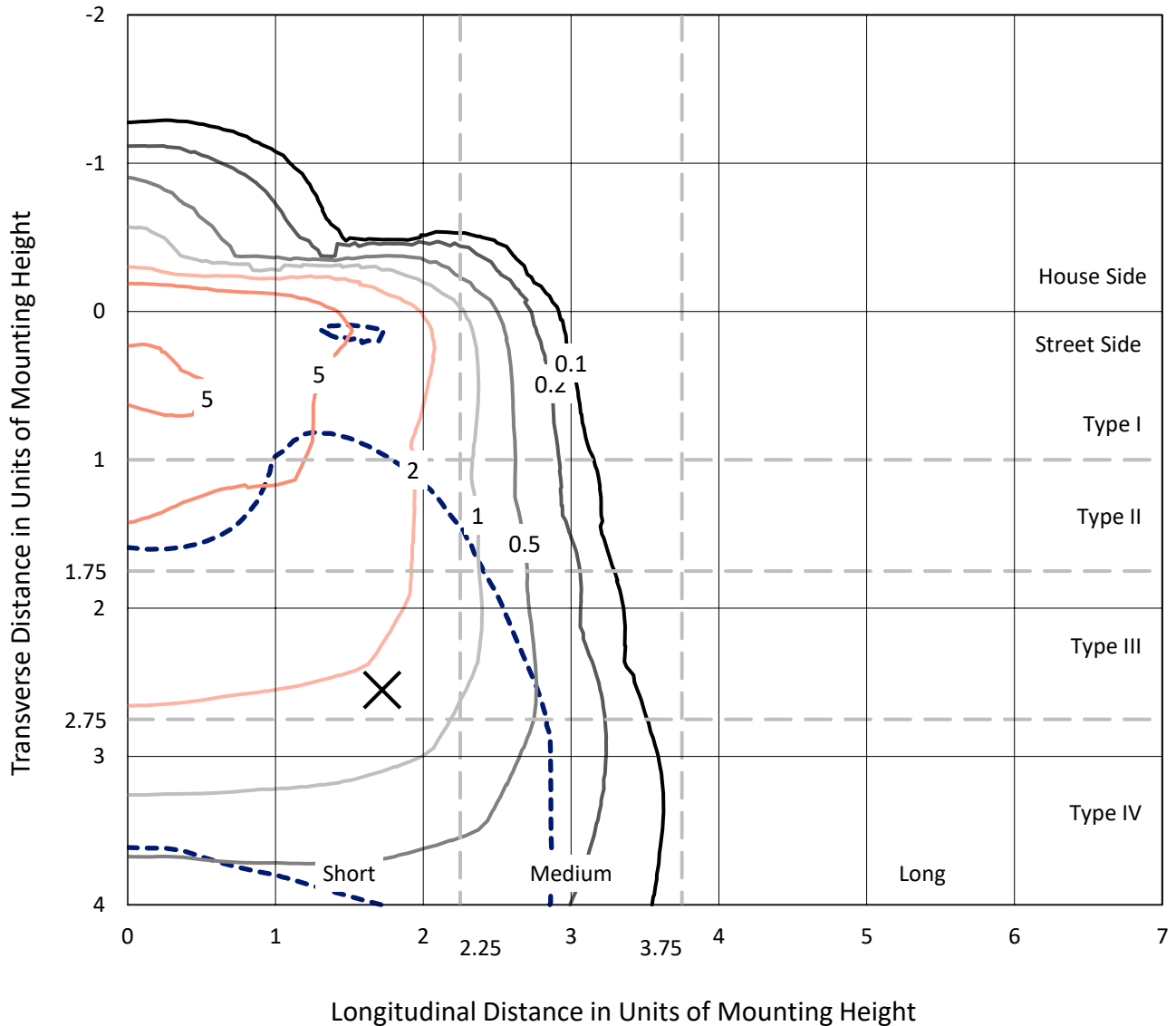
Lumens per Lamp: N/A
Luminaire Lumens: 6078.9 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P483143
 CATALOG NUMBER: IFLD-S-SA2A-730-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

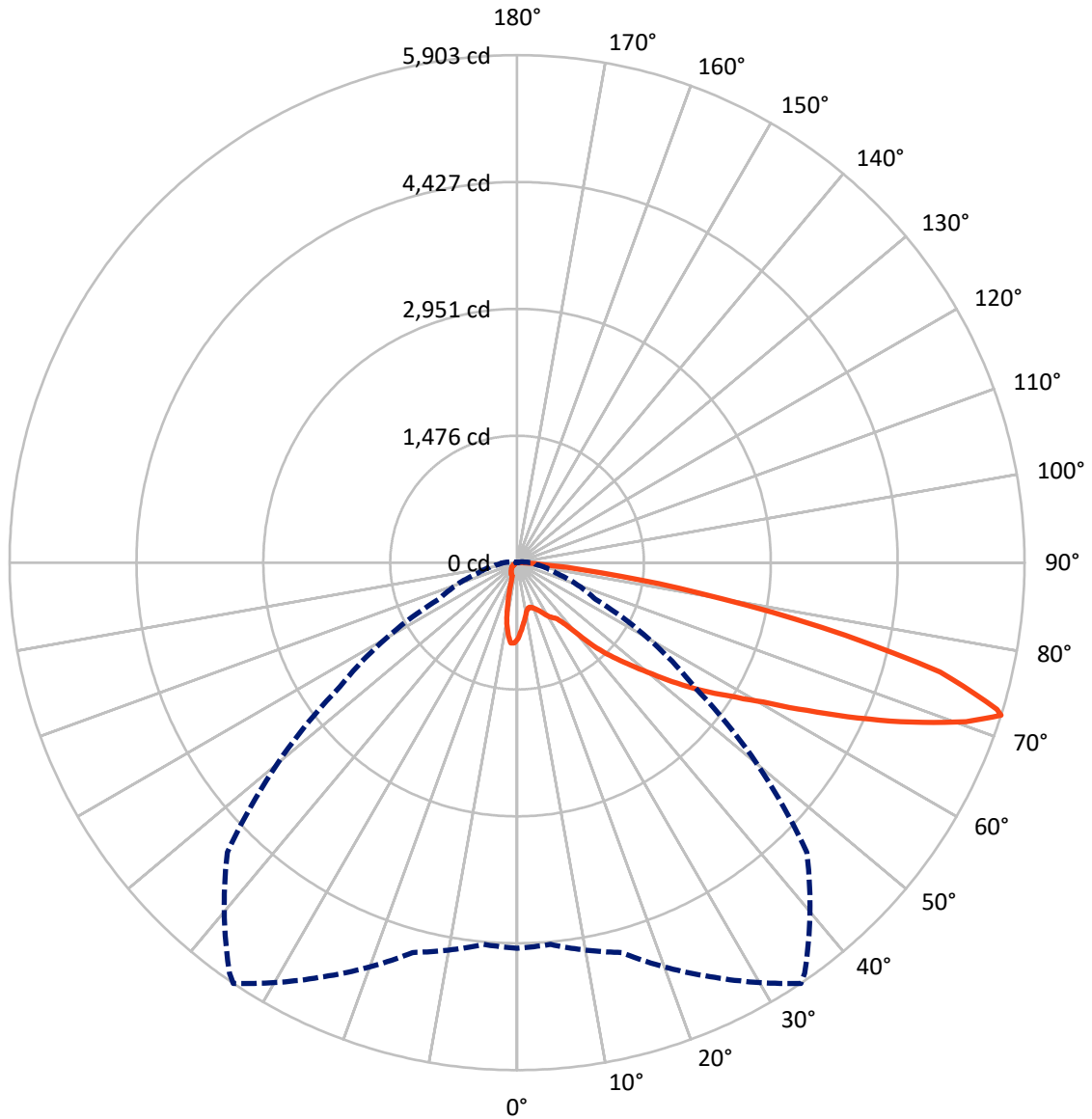
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P483143
CATALOG NUMBER: IFLD-S-SA2A-730-U-T4FT-HSS

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	622.3	0.0	622.3
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	5456.6	0.0	5456.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	6078.9	0.0	6078.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	1.3
10°-20°	174.8	2.9
20°-30°	263.8	4.3
30°-40°	428.1	7.0
40°-50°	805.1	13.2
50°-60°	1316.3	21.7
60°-70°	1749.9	28.8
70°-80°	1171.9	19.3
80°-90°	91.8	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°	6078.9	100.0
0°-180°	6078.9	100.0



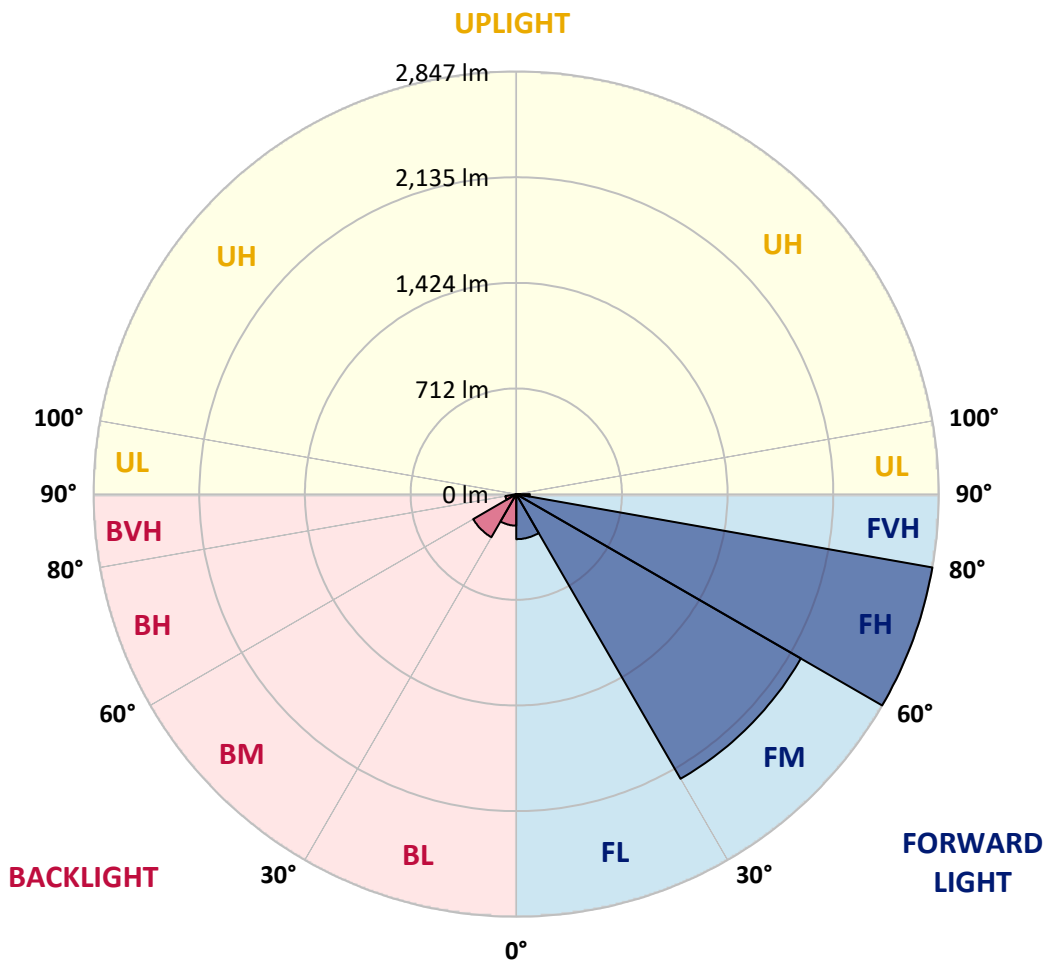
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	303.5	5.0			
FM (30°-60°)	2214.5	36.4			
FH (60°-80°)	2847.3	46.8			G2/5000
FVH (80°-90°)	91.3	1.5			G1/100
BL (0°-30°)	212.3	3.5	B1/500		
BM (30°-60°)	335.0	5.5	B1/1000		
BH (60°-80°)	74.4	1.2	B0/110		G0/110
BVH (80°-90°)	0.6	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





REPORT NUMBER: P483143

CATALOG NUMBER: IFLD-S-SA2A-730-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3
2.5°	786.5	784.8	790.0	798.8	807.6	804.1	820.8	838.4	850.7	867.4	887.6
5°	687.2	691.6	696.9	714.5	725.9	728.5	759.3	782.1	819.9	858.6	894.6
7.5°	596.7	602.0	612.5	631.9	655.6	661.7	692.5	738.2	787.4	838.4	897.3
10°	530.8	536.1	547.5	559.8	591.4	591.4	633.6	696.9	761.0	820.8	898.1
12.5°	516.7	519.4	518.5	528.2	548.4	552.8	594.1	663.5	738.2	814.6	912.2
15°	533.4	535.2	526.4	521.1	538.7	543.1	581.8	643.3	723.3	818.2	935.0
17.5°	566.8	560.7	543.1	535.2	550.1	552.8	588.8	642.4	721.5	827.8	961.4
20°	586.2	593.2	562.4	547.5	568.6	572.1	610.8	656.5	730.3	844.5	998.3
22.5°	620.4	623.9	582.6	573.0	593.2	593.2	637.1	684.6	751.4	871.8	1042.3
25°	668.8	664.4	616.0	606.4	625.7	633.6	677.6	729.4	783.9	897.3	1082.7
27.5°	706.6	709.2	669.6	644.2	676.7	682.0	729.4	777.7	808.5	918.3	1131.9
30°	762.8	757.5	715.3	686.3	726.8	727.6	773.3	823.4	856.0	956.1	1205.7
32.5°	829.6	819.0	770.7	729.4	761.9	769.8	816.4	889.3	929.8	1027.3	1320.0
35°	971.1	945.6	866.5	802.3	805.0	808.5	880.6	985.1	1031.7	1117.8	1472.9
37.5°	1177.6	1167.0	1077.4	955.3	908.7	898.1	979.0	1111.7	1169.7	1237.4	1671.5
40°	1382.4	1367.4	1283.9	1191.7	1107.3	1086.2	1126.6	1279.5	1332.3	1403.4	1875.4
42.5°	1610.0	1583.6	1485.2	1410.5	1357.7	1334.9	1319.1	1490.4	1550.2	1598.5	2074.9
45°	1840.2	1797.1	1654.8	1597.7	1569.5	1557.2	1555.5	1755.8	1791.9	1801.5	2296.3
47.5°	2042.3	1995.8	1866.6	1802.4	1781.3	1777.8	1876.2	2061.7	2033.5	2008.1	2543.3
50°	2197.9	2168.0	2074.9	2052.0	2036.2	2030.0	2260.3	2376.3	2246.2	2201.4	2760.3
52.5°	2438.7	2371.9	2266.4	2274.3	2329.7	2330.6	2649.6	2675.1	2422.9	2334.1	2965.1
55°	2631.1	2587.2	2501.1	2489.6	2635.5	2651.3	2998.5	2901.8	2521.3	2460.6	3040.7
57.5°	2857.9	2837.7	2775.3	2777.0	2929.9	2963.3	3308.7	3093.4	2603.0	2542.4	3052.1
60°	3185.7	3127.7	3095.1	3110.1	3290.2	3322.7	3609.2	3231.4	2642.6	2596.0	3024.0
62.5°	3547.7	3480.1	3444.9	3521.4	3784.1	3789.4	3837.7	3353.5	2617.9	2610.0	2842.9
65°	3983.6	3916.8	3888.7	4042.5	4354.5	4335.1	4158.5	3405.4	2539.7	2468.6	2367.5
67.5°	4417.7	4377.3	4319.3	4564.5	4952.9	4952.9	4491.6	3386.0	2335.0	1981.7	1548.4
70°	4623.4	4651.5	4743.8	5128.7	5540.8	5498.7	4820.2	3163.7	1738.3	1064.2	609.0
72°	4486.3	4457.3	4695.4	5313.2	5902.9	5833.5	4764.9	2515.1	1004.5	466.6	211.8
72.5°	4250.8	4278.0	4605.8	5287.7	5835.2	5892.4	4629.5	2320.0	826.1	371.7	159.9
75°	2606.5	2653.1	3437.9	4489.8	5084.7	5020.6	3581.1	1105.5	317.2	158.2	57.1
77.5°	951.7	990.4	1668.0	2825.3	3616.3	3575.8	2072.2	392.8	172.2	117.8	29.0
80°	247.8	268.0	566.8	1303.3	2126.7	2129.3	867.4	157.3	116.9	96.7	17.6
82.5°	49.2	54.5	174.0	507.1	993.9	980.7	274.2	84.4	87.9	79.1	12.3
85°	6.2	7.9	36.9	172.2	321.6	288.2	67.7	42.2	65.0	61.5	7.9
87.5°	0.9	0.9	8.8	39.5	67.7	65.9	14.1	13.2	29.0	37.8	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483143

CATALOG NUMBER: IFLD-S-SA2A-730-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3
2.5°	899.0	902.5	914.8	925.4	937.7	941.2	935.9	944.7	932.4	939.4	941.2
5°	900.8	921.0	943.8	958.8	955.3	946.5	939.4	915.7	899.0	892.9	906.0
7.5°	913.1	935.9	960.5	960.5	941.2	895.5	851.6	809.4	774.2	756.6	771.6
10°	928.9	952.6	978.1	944.7	872.6	789.2	726.8	647.7	594.1	565.9	568.6
12.5°	950.0	983.4	992.2	914.8	795.3	671.4	558.0	448.2	397.2	356.8	357.7
15°	977.2	1009.7	983.4	849.8	696.9	514.1	377.9	273.3	232.9	211.8	211.8
17.5°	1013.3	1037.9	980.7	790.0	564.2	351.5	232.0	184.5	175.8	172.2	172.2
20°	1055.4	1073.9	955.3	696.9	419.2	225.9	170.5	165.2	166.1	164.3	164.3
22.5°	1102.9	1109.0	926.3	588.8	283.9	167.0	159.1	159.9	160.8	159.1	159.9
25°	1153.0	1136.3	884.1	462.2	188.9	152.0	153.8	155.5	156.4	157.3	157.3
27.5°	1209.2	1175.8	825.2	338.3	147.6	143.2	148.5	153.8	154.7	154.7	153.8
30°	1291.8	1236.5	768.1	229.4	130.1	133.6	142.4	148.5	152.9	152.9	152.0
32.5°	1396.4	1299.7	688.1	156.4	120.4	122.2	129.2	141.5	151.2	152.0	149.4
35°	1541.4	1376.2	604.6	124.8	113.4	114.2	118.6	128.3	145.0	150.3	149.4
37.5°	1694.3	1463.2	500.9	112.5	108.1	107.2	109.9	117.8	132.7	145.9	146.8
40°	1856.9	1554.6	391.9	106.3	103.7	101.9	102.8	106.3	117.8	134.5	138.0
42.5°	2009.8	1637.2	294.4	100.2	99.3	97.5	97.5	98.4	104.6	116.0	117.8
45°	2175.0	1704.9	224.1	95.8	93.2	94.0	90.5	88.8	93.2	94.0	93.2
47.5°	2329.7	1772.5	179.3	90.5	87.9	87.9	83.5	80.0	80.0	72.1	71.2
50°	2474.7	1809.5	143.2	83.5	82.6	81.7	75.6	69.4	64.2	54.5	52.7
52.5°	2595.1	1807.7	110.7	74.7	77.3	74.7	65.0	56.2	48.3	39.5	37.8
55°	2631.1	1723.3	83.5	61.5	65.9	62.4	51.8	43.9	35.2	28.1	27.2
57.5°	2600.4	1595.0	63.3	47.5	51.0	47.5	39.5	32.5	24.6	19.3	17.6
60°	2497.6	1444.7	49.2	36.9	38.7	36.0	29.9	24.6	17.6	12.3	10.5
62.5°	2302.5	1256.7	37.8	29.0	28.1	28.1	22.8	18.5	12.3	7.0	6.2
65°	1889.4	979.9	29.0	20.2	20.2	20.2	17.6	13.2	7.9	3.5	1.8
67.5°	1186.4	570.3	23.7	15.8	14.9	14.9	12.3	8.8	4.4	0.9	0.0
70°	446.4	209.2	18.5	12.3	11.4	11.4	8.8	5.3	2.6	0.0	0.0
72°	153.8	80.0	14.9	8.8	8.8	7.9	6.2	4.4	1.8	0.0	0.0
72.5°	126.5	64.2	14.1	8.8	7.9	7.9	6.2	4.4	1.8	0.0	0.0
75°	45.7	26.4	9.7	6.2	5.3	5.3	4.4	2.6	0.9	0.0	0.0
77.5°	22.8	16.7	7.9	5.3	4.4	2.6	2.6	1.8	0.9	0.0	0.0
80°	14.1	10.5	4.4	3.5	2.6	1.8	0.9	0.9	0.0	0.0	0.0
82.5°	9.7	6.2	2.6	2.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0
85°	6.2	2.6	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.8	0.9	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)