

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: P482442

Luminaire Tested: **IFLD-S-SA2B-740-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482442
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-740-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

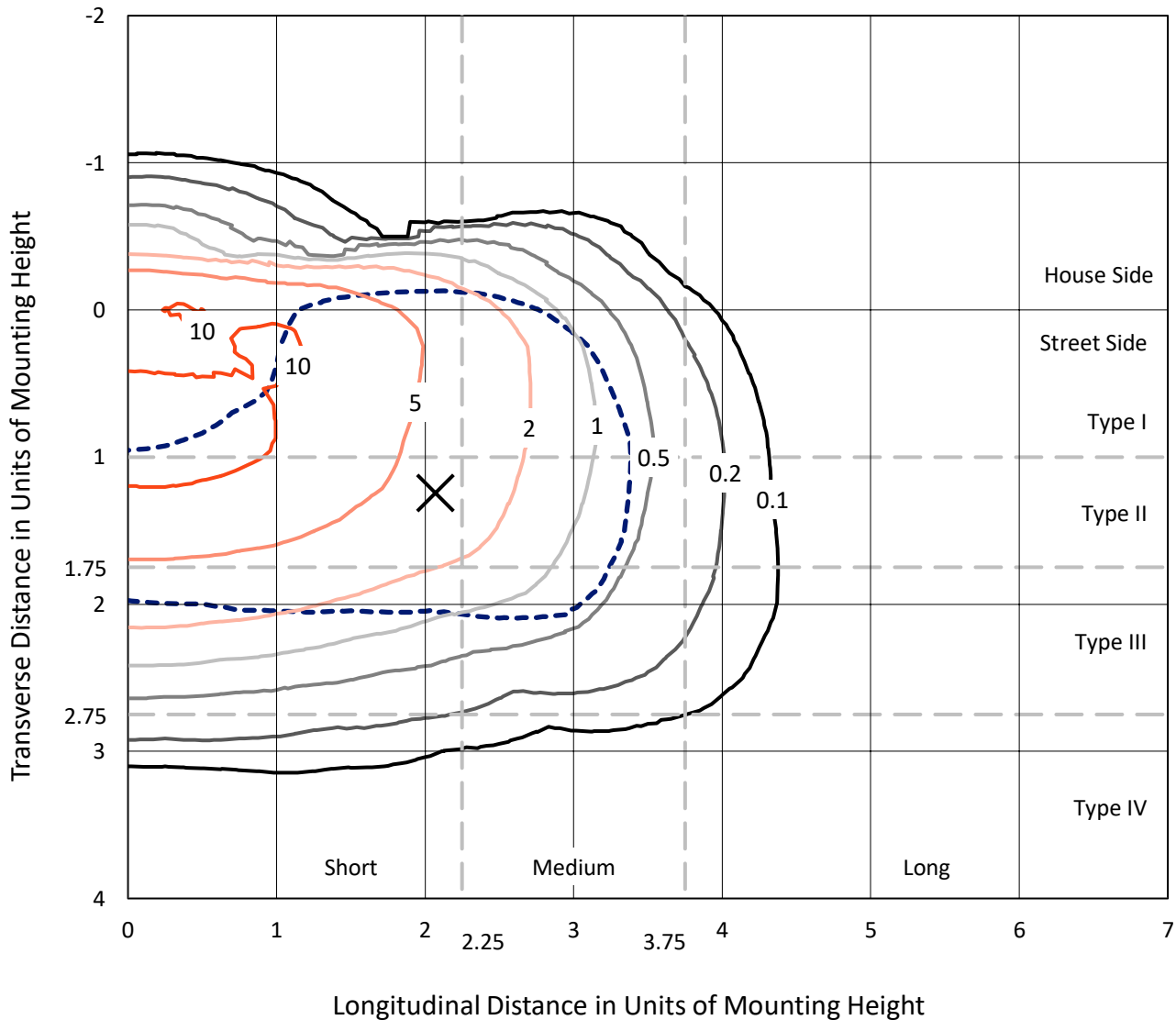
Lumens per Lamp: N/A
Luminaire Lumens: 8472.3 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

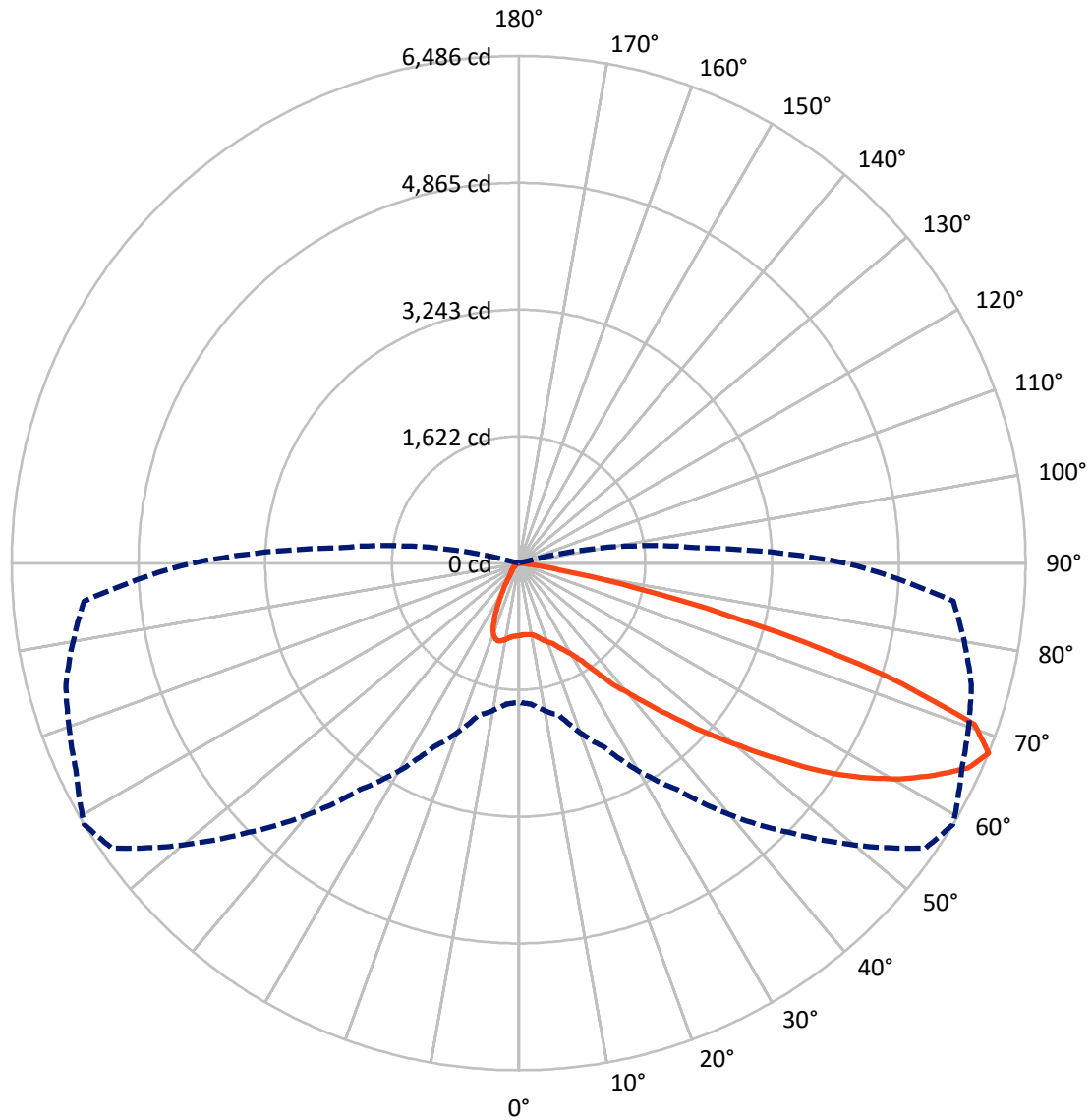
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	995.2	0.0	995.2
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	7477.1	0.0	7477.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	8472.3	0.0	8472.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	1.0
10°-20°	255.0	3.0
20°-30°	445.6	5.3
30°-40°	784.6	9.3
40°-50°	1386.9	16.4
50°-60°	2196.0	25.9
60°-70°	2435.9	28.8
70°-80°	845.2	10.0
80°-90°	34.8	0.4
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°	8472.3	100.0
0°-180°	8472.3	100.0

Coefficient of Utilization

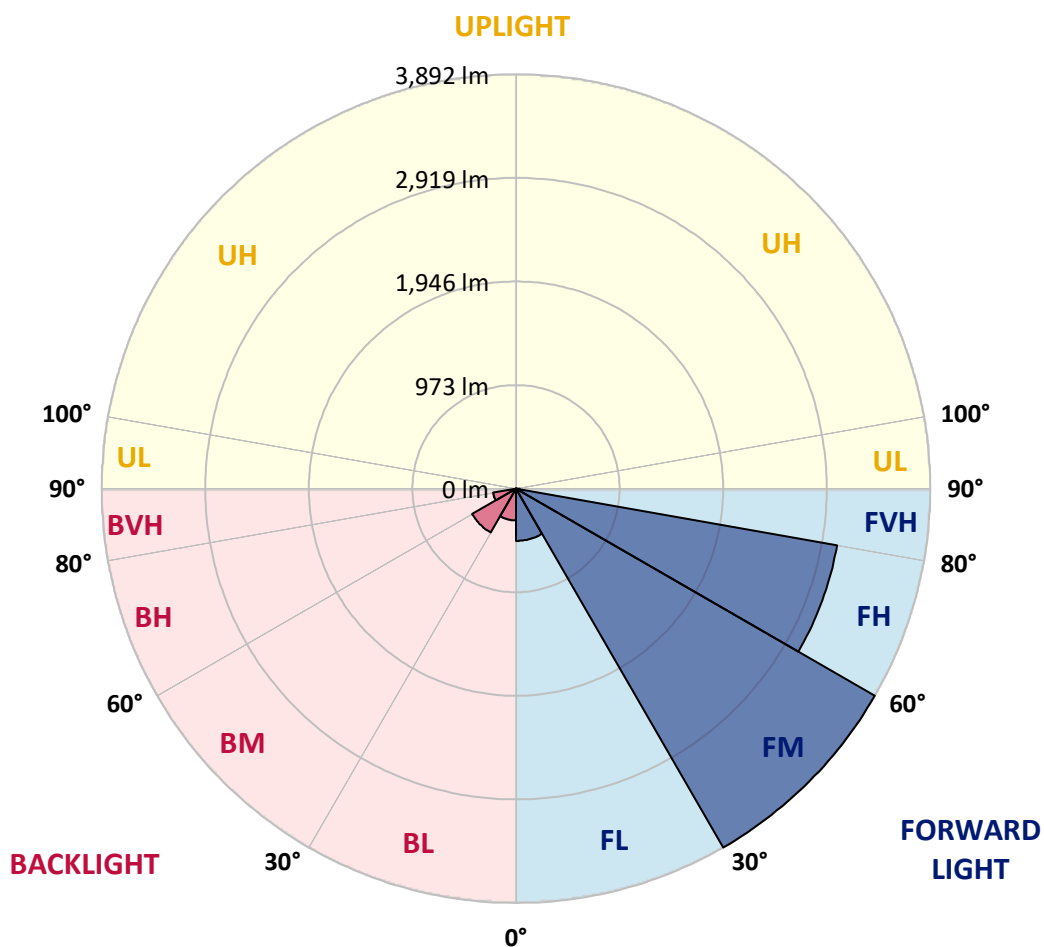


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	490.6	5.8			
FM (30°-60°)	3891.6	45.9			
FH (60°-80°)	3062.3	36.1			G2/5000
FVH (80°-90°)	32.6	0.4			G1/100
BL (0°-30°)	298.3	3.5	B1/500		
BM (30°-60°)	475.8	5.6	B1/1000		
BH (60°-80°)	218.9	2.6	B1/500		G1/500
BVH (80°-90°)	2.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3
2.5°	902.3	889.5	901.2	902.3	903.5	914.0	925.7	917.6	916.4	925.7	933.9
5°	866.1	860.2	874.2	881.3	893.0	902.3	921.1	922.2	923.4	933.9	948.0
7.5°	850.8	836.8	853.2	861.4	869.6	891.8	914.0	925.7	942.1	955.0	969.0
10°	820.4	830.9	835.6	849.7	873.1	898.8	925.7	931.6	967.9	978.4	1012.3
12.5°	830.9	838.0	847.3	850.8	876.6	915.2	951.5	953.8	991.3	1036.9	1054.5
15°	857.9	853.2	856.7	861.4	891.8	923.4	981.9	992.5	1027.6	1079.1	1122.4
17.5°	915.2	907.0	901.2	900.0	907.0	936.3	1005.3	1036.9	1069.7	1139.9	1162.2
20°	1059.2	1052.1	1028.7	967.9	946.8	958.5	1033.4	1077.9	1123.5	1201.9	1238.2
22.5°	1278.0	1285.0	1230.0	1144.6	1056.8	1011.2	1077.9	1116.5	1189.1	1288.6	1321.3
25°	1536.7	1522.6	1455.9	1356.4	1218.3	1110.7	1149.3	1192.6	1281.5	1363.5	1376.3
27.5°	1739.1	1722.7	1671.3	1550.7	1431.3	1257.0	1242.9	1269.8	1375.2	1448.9	1434.8
30°	1939.3	1945.1	1910.0	1767.2	1619.8	1436.0	1347.1	1358.8	1439.5	1534.3	1502.7
32.5°	2194.4	2180.4	2160.5	2035.2	1860.9	1664.2	1512.1	1493.4	1528.5	1653.7	1616.2
35°	2432.0	2423.8	2396.9	2270.5	2118.3	1904.2	1755.5	1713.4	1705.2	1844.5	1778.9
37.5°	2639.1	2625.1	2584.1	2503.4	2355.9	2175.7	2013.0	1975.5	1974.4	2070.3	1943.9
40°	2813.5	2824.0	2819.4	2730.4	2649.7	2505.7	2256.4	2196.7	2192.1	2243.6	2169.8
42.5°	3039.4	3064.0	3051.1	3033.5	2936.4	2880.2	2598.2	2506.9	2465.9	2571.3	2504.5
45°	3381.1	3390.5	3398.7	3355.4	3258.2	3269.9	2951.6	2842.8	2832.2	2989.1	2839.3
47.5°	3700.6	3676.1	3733.4	3735.7	3731.1	3677.2	3333.1	3252.4	3266.4	3385.8	3231.3
50°	3780.2	3843.4	4001.4	4030.7	4106.7	4155.9	3756.8	3676.1	3699.5	3835.2	3658.5
52.5°	3842.2	3938.2	4096.2	4310.4	4515.2	4632.2	4230.8	4165.3	4164.1	4247.2	4003.8
55°	3951.1	4009.6	4146.5	4441.5	4831.2	5023.1	4801.9	4696.6	4601.8	4660.3	4361.9
57.5°	3940.6	3962.8	4175.8	4539.8	5081.6	5430.4	5271.2	5170.6	5048.9	5014.9	4773.8
60°	3755.6	3808.3	4047.1	4473.1	5236.1	5747.6	5708.9	5606.0	5396.5	5316.9	5089.8
62.5°	3389.3	3459.5	3646.8	4239.0	5011.4	5764.0	6010.9	5972.3	5738.2	5595.4	5501.8
65°	2746.8	2779.6	2994.9	3644.5	4503.5	5512.3	6367.9	6319.9	6104.5	5891.5	5713.6
67.5°	1778.9	1810.5	2017.7	2601.7	3536.8	4862.8	6353.8	6486.1	6253.2	5996.9	5581.4
70°	840.3	832.1	1025.2	1445.4	2265.8	3713.5	5924.3	6185.3	5987.5	5436.3	4635.7
72.5°	256.3	278.5	426.0	640.2	1163.3	2316.1	4643.9	4888.5	4826.5	4343.2	3094.4
75°	113.5	122.9	167.4	262.2	471.6	950.3	2868.5	3086.2	3059.3	2561.9	1412.6
77.5°	72.6	79.6	105.3	149.8	214.2	301.9	1321.3	1533.2	1486.3	900.0	369.8
80°	51.5	55.0	74.9	103.0	134.6	124.1	455.3	540.7	518.5	244.6	99.5
82.5°	28.1	30.4	55.0	76.1	90.1	63.2	127.6	159.2	166.2	108.8	48.0
85°	10.5	12.9	33.9	53.8	46.8	29.3	37.5	45.6	59.7	59.7	22.2
87.5°	0.0	1.2	14.0	23.4	11.7	8.2	10.5	12.9	16.4	28.1	8.2
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°	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3	929.3
2.5°	939.8	931.6	935.1	941.0	928.1	935.1	921.1	931.6	935.1	921.1	928.1
5°	951.5	959.7	955.0	945.6	937.4	939.8	936.3	928.1	935.1	937.4	932.8
7.5°	985.4	976.1	978.4	967.9	951.5	950.3	928.1	922.2	924.6	926.9	918.7
10°	1017.0	1022.9	1011.2	1003.0	976.1	958.5	928.1	895.3	891.8	877.8	889.5
12.5°	1073.2	1059.2	1054.5	1027.6	1000.6	942.1	876.6	826.3	784.1	768.9	753.7
15°	1120.0	1117.7	1109.5	1068.5	1006.5	900.0	775.9	658.9	578.2	527.8	520.8
17.5°	1184.4	1173.9	1158.6	1094.3	963.2	790.0	578.2	430.7	349.9	318.3	306.6
20°	1233.5	1225.4	1204.3	1088.4	884.8	588.7	358.1	273.9	254.0	248.1	249.3
22.5°	1304.9	1279.2	1239.4	1059.2	742.0	392.1	257.5	244.6	241.1	236.4	237.6
25°	1367.0	1343.6	1260.5	1008.8	529.0	259.8	238.8	231.7	225.9	220.0	218.9
27.5°	1422.0	1392.7	1282.7	905.8	331.2	223.5	221.2	213.0	201.3	191.9	188.4
30°	1475.8	1441.9	1288.6	712.7	223.5	202.5	196.6	183.7	168.5	155.7	153.3
32.5°	1565.9	1525.0	1280.4	509.1	193.1	180.2	167.4	152.1	129.9	119.4	117.0
35°	1706.4	1644.3	1269.8	299.6	173.2	159.2	139.3	119.4	103.0	92.5	90.1
37.5°	1867.9	1760.2	1239.4	200.1	159.2	140.4	114.7	94.8	80.8	72.6	70.2
40°	2107.8	1929.9	1122.4	163.8	141.6	119.4	92.5	74.9	64.4	58.5	56.2
42.5°	2372.3	2124.2	942.1	147.5	125.2	101.8	73.7	60.9	52.7	46.8	46.8
45°	2689.5	2326.6	726.8	134.6	111.2	84.3	60.9	49.2	42.1	37.5	35.1
47.5°	3042.9	2510.4	490.4	121.7	93.6	69.1	50.3	37.5	30.4	26.9	26.9
50°	3358.9	2673.1	312.5	106.5	81.9	57.3	41.0	30.4	24.6	19.9	18.7
52.5°	3645.6	2797.1	215.3	93.6	70.2	46.8	33.9	24.6	18.7	15.2	15.2
55°	3939.4	2860.3	159.2	80.8	60.9	39.8	28.1	22.2	16.4	12.9	11.7
57.5°	4180.5	2887.2	121.7	70.2	51.5	31.6	24.6	18.7	14.0	10.5	9.4
60°	4386.5	2874.4	94.8	58.5	41.0	26.9	21.1	15.2	11.7	8.2	7.0
62.5°	4507.0	2797.1	74.9	50.3	32.8	23.4	17.6	12.9	8.2	5.9	4.7
65°	4509.3	2633.3	58.5	37.5	24.6	19.9	15.2	10.5	5.9	2.3	1.2
67.5°	4186.3	2278.7	46.8	29.3	19.9	15.2	11.7	8.2	2.3	0.0	0.0
70°	3274.6	1723.9	38.6	23.4	16.4	12.9	8.2	4.7	1.2	0.0	0.0
72.5°	2086.7	1032.2	31.6	18.7	14.0	9.4	5.9	3.5	0.0	0.0	0.0
75°	873.1	318.3	24.6	16.4	10.5	7.0	4.7	1.2	0.0	0.0	0.0
77.5°	224.7	100.6	19.9	14.0	10.5	5.9	3.5	1.2	0.0	0.0	0.0
80°	66.7	37.5	16.4	11.7	8.2	4.7	2.3	1.2	0.0	0.0	0.0
82.5°	30.4	22.2	14.0	10.5	7.0	4.7	2.3	0.0	0.0	0.0	0.0
85°	11.7	7.0	7.0	5.9	5.9	3.5	1.2	0.0	0.0	0.0	0.0
87.5°	4.7	2.3	2.3	2.3	1.2	1.2	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)