

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: P482559

Luminaire Tested: **IFLD-S-SA2B-827-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482559  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-827-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

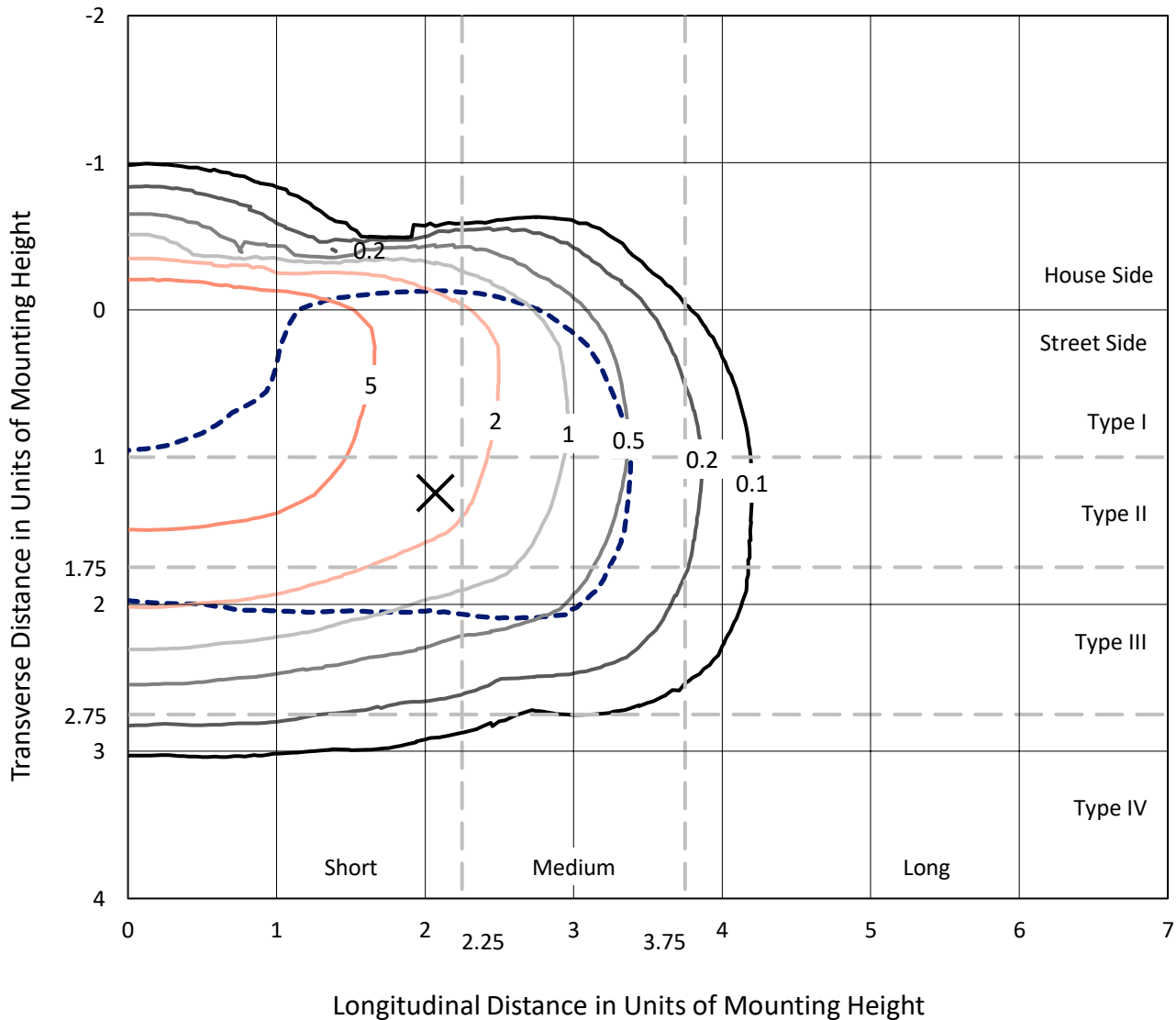
Lumens per Lamp: N/A  
Luminaire Lumens: 6227.9 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

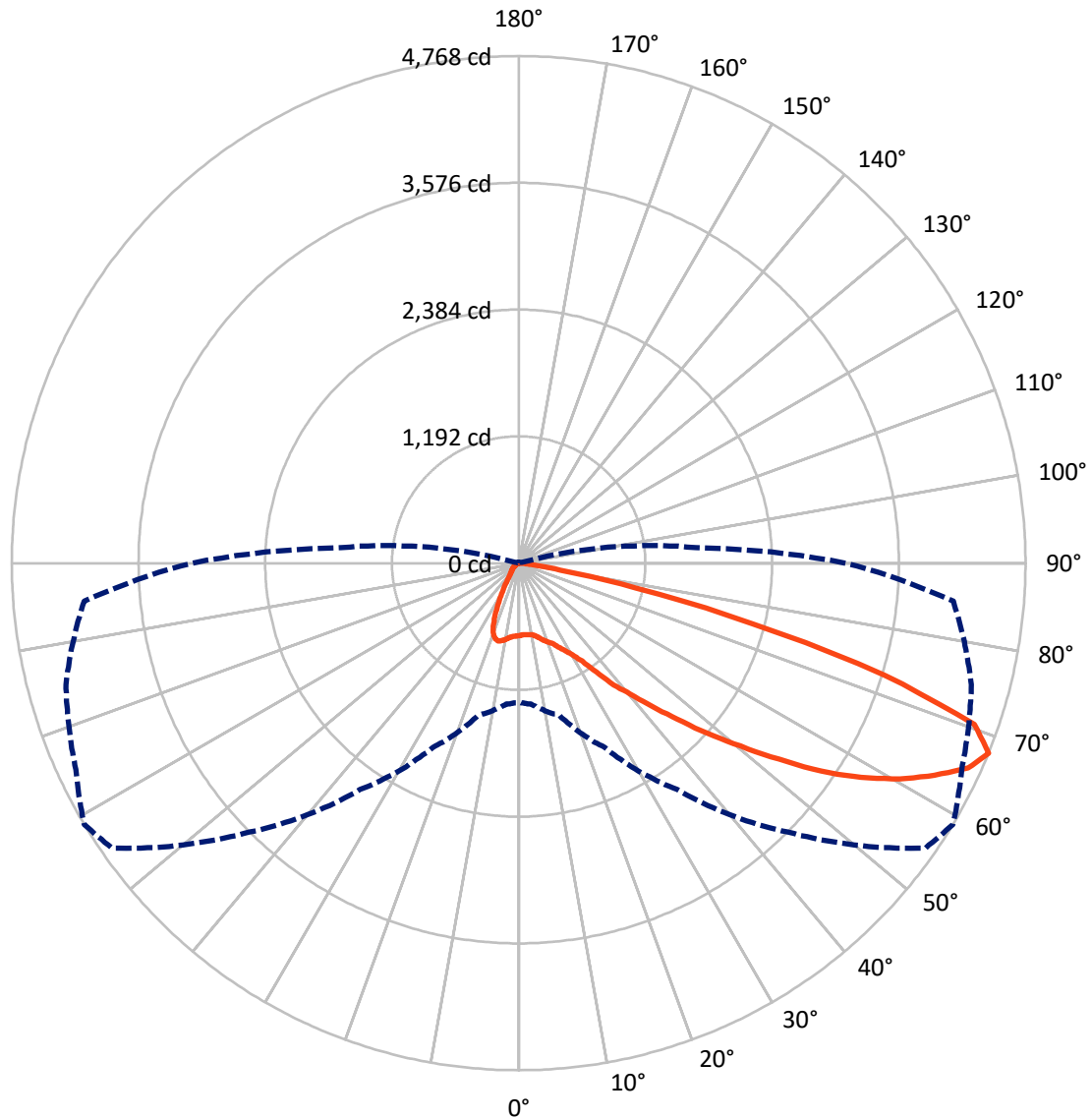
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 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
<b>House Side</b>	Lumens	731.6	0.0	731.6
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	5496.4	0.0	5496.4
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	6227.9	0.0	6227.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.9	1.0
10°-20°	187.4	3.0
20°-30°	327.6	5.3
30°-40°	576.7	9.3
40°-50°	1019.5	16.4
50°-60°	1614.2	25.9
60°-70°	1790.6	28.8
70°-80°	621.3	10.0
80°-90°	25.6	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°	6227.9	100.0
0°-180°	6227.9	100.0

**Coefficient of Utilization**

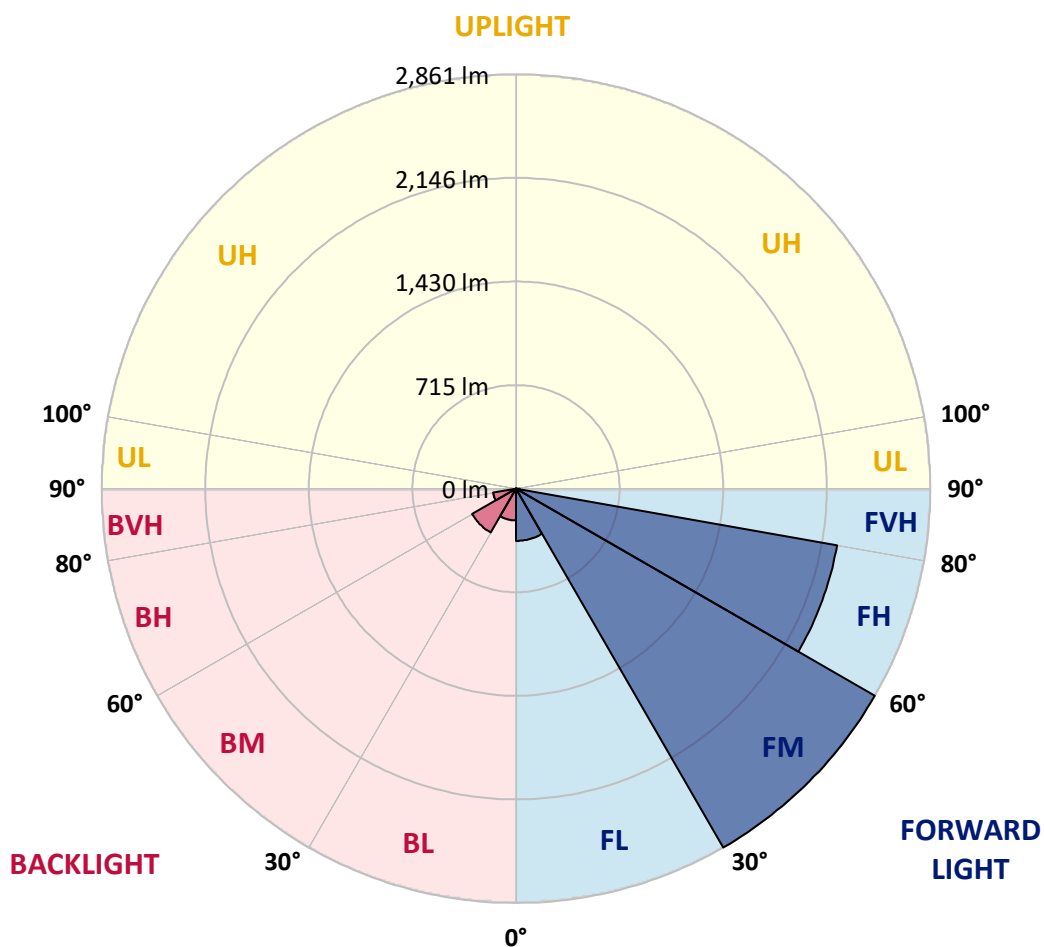


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.6	5.8			
FM (30°-60°)	2860.7	45.9			
FH (60°-80°)	2251.1	36.1			G2/5000
FVH (80°-90°)	23.9	0.4			G1/100
BL (0°-30°)	219.3	3.5	B1/500		
BM (30°-60°)	349.8	5.6	B1/1000		
BH (60°-80°)	160.9	2.6	B1/500		G1/500
BVH (80°-90°)	1.7	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°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1
2.5°	663.3	653.8	662.4	663.3	664.2	671.9	680.5	674.5	673.6	680.5	686.5
5°	636.6	632.3	642.7	647.8	656.4	663.3	677.1	677.9	678.8	686.5	696.9
7.5°	625.5	615.1	627.2	633.2	639.2	655.6	671.9	680.5	692.6	702.0	712.3
10°	603.1	610.8	614.3	624.6	641.8	660.7	680.5	684.8	711.5	719.2	744.2
12.5°	610.8	616.0	622.9	625.5	644.4	672.8	699.4	701.2	728.7	762.2	775.1
15°	630.6	627.2	629.8	633.2	655.6	678.8	721.8	729.6	755.4	793.2	825.0
17.5°	672.8	666.7	662.4	661.6	666.7	688.3	739.0	762.2	786.3	838.0	854.3
20°	778.6	773.4	756.2	711.5	696.0	704.6	759.7	792.4	825.9	883.6	910.2
22.5°	939.5	944.6	904.2	841.4	776.9	743.3	792.4	820.7	874.1	947.2	971.3
25°	1129.6	1119.3	1070.2	997.1	895.6	816.4	844.8	876.7	942.1	1002.3	1011.7
27.5°	1278.4	1266.4	1228.5	1139.9	1052.2	924.0	913.7	933.4	1010.9	1065.1	1054.8
30°	1425.6	1429.9	1404.0	1299.1	1190.7	1055.6	990.2	998.8	1058.2	1127.9	1104.7
32.5°	1613.1	1602.8	1588.2	1496.1	1367.9	1223.4	1111.5	1097.8	1123.6	1215.6	1188.1
35°	1787.7	1781.7	1761.9	1669.0	1557.2	1399.7	1290.5	1259.5	1253.5	1355.9	1307.7
37.5°	1940.0	1929.7	1899.6	1840.2	1731.8	1599.3	1479.8	1452.2	1451.4	1521.9	1429.0
40°	2068.2	2076.0	2072.5	2007.1	1947.8	1841.9	1658.7	1614.8	1611.4	1649.2	1595.0
42.5°	2234.3	2252.3	2242.9	2230.0	2158.5	2117.3	1909.9	1842.8	1812.7	1890.1	1841.1
45°	2485.5	2492.4	2498.4	2466.5	2395.1	2403.7	2169.7	2089.7	2082.0	2197.3	2087.1
47.5°	2720.3	2702.3	2744.4	2746.1	2742.7	2703.1	2450.2	2390.8	2401.2	2488.9	2375.3
50°	2778.8	2825.3	2941.4	2962.9	3018.9	3055.0	2761.6	2702.3	2719.5	2819.3	2689.4
52.5°	2824.4	2895.0	3011.1	3168.6	3319.1	3405.2	3110.1	3061.9	3061.0	3122.1	2943.2
55°	2904.4	2947.5	3048.1	3264.9	3551.4	3692.5	3529.9	3452.5	3382.8	3425.8	3206.4
57.5°	2896.7	2913.0	3069.6	3337.2	3735.5	3991.9	3874.9	3800.9	3711.4	3686.5	3509.3
60°	2760.8	2799.5	2975.0	3288.1	3849.1	4225.0	4196.6	4120.9	3966.9	3908.4	3741.5
62.5°	2491.5	2543.1	2680.8	3116.1	3683.9	4237.1	4418.6	4390.2	4218.2	4113.2	4044.4
65°	2019.2	2043.3	2201.6	2679.0	3310.5	4052.1	4681.0	4645.7	4487.4	4330.9	4200.1
67.5°	1307.7	1330.9	1483.2	1912.5	2599.9	3574.6	4670.7	4767.9	4596.7	4408.3	4102.9
70°	617.7	611.7	753.6	1062.5	1665.6	2729.8	4354.9	4546.8	4401.4	3996.2	3407.7
72.5°	188.4	204.8	313.2	470.6	855.2	1702.6	3413.8	3593.6	3548.0	3192.7	2274.7
75°	83.5	90.3	123.0	192.7	346.7	698.6	2108.6	2268.7	2248.9	1883.2	1038.4
77.5°	53.3	58.5	77.4	110.1	157.4	222.0	971.3	1127.0	1092.6	661.6	271.9
80°	37.9	40.4	55.1	75.7	98.9	91.2	334.7	397.5	381.1	179.8	73.1
82.5°	20.6	22.4	40.4	55.9	66.2	46.5	93.8	117.0	122.2	80.0	35.3
85°	7.7	9.5	24.9	39.6	34.4	21.5	27.5	33.6	43.9	43.9	16.3
87.5°	0.0	0.9	10.3	17.2	8.6	6.0	7.7	9.5	12.0	20.6	6.0
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°	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1	683.1
2.5°	690.8	684.8	687.4	691.7	682.2	687.4	677.1	684.8	687.4	677.1	682.2
5°	699.4	705.5	702.0	695.1	689.1	690.8	688.3	682.2	687.4	689.1	685.7
7.5°	724.4	717.5	719.2	711.5	699.4	698.6	682.2	677.9	679.7	681.4	675.4
10°	747.6	751.9	743.3	737.3	717.5	704.6	682.2	658.1	655.6	645.2	653.8
12.5°	788.9	778.6	775.1	755.4	735.6	692.6	644.4	607.4	576.4	565.2	554.0
15°	823.3	821.6	815.6	785.5	739.9	661.6	570.4	484.4	425.0	388.0	382.8
17.5°	870.6	862.9	851.7	804.4	708.0	580.7	425.0	316.6	257.2	234.0	225.4
20°	906.8	900.8	885.3	800.1	650.4	432.7	263.3	201.3	186.7	182.4	183.2
22.5°	959.3	940.3	911.1	778.6	545.4	288.2	189.3	179.8	177.2	173.8	174.6
25°	1004.9	987.6	926.6	741.6	388.9	191.0	175.5	170.3	166.0	161.7	160.9
27.5°	1045.3	1023.8	942.9	665.9	243.5	164.3	162.6	156.6	148.0	141.1	138.5
30°	1084.9	1059.9	947.2	523.9	164.3	148.8	144.5	135.1	123.9	114.4	112.7
32.5°	1151.1	1121.0	941.2	374.2	142.0	132.5	123.0	111.8	95.5	87.8	86.0
35°	1254.3	1208.8	933.4	220.2	127.3	117.0	102.4	87.8	75.7	68.0	66.2
37.5°	1373.1	1293.9	911.1	147.1	117.0	103.2	84.3	69.7	59.4	53.3	51.6
40°	1549.4	1418.7	825.0	120.4	104.1	87.8	68.0	55.1	47.3	43.0	41.3
42.5°	1743.9	1561.5	692.6	108.4	92.1	74.8	54.2	44.7	38.7	34.4	34.4
45°	1977.0	1710.3	534.3	98.9	81.7	61.9	44.7	36.1	31.0	27.5	25.8
47.5°	2236.8	1845.4	360.5	89.5	68.8	50.8	37.0	27.5	22.4	19.8	19.8
50°	2469.1	1965.0	229.7	78.3	60.2	42.2	30.1	22.4	18.1	14.6	13.8
52.5°	2679.9	2056.2	158.3	68.8	51.6	34.4	24.9	18.1	13.8	11.2	11.2
55°	2895.8	2102.6	117.0	59.4	44.7	29.3	20.6	16.3	12.0	9.5	8.6
57.5°	3073.1	2122.4	89.5	51.6	37.9	23.2	18.1	13.8	10.3	7.7	6.9
60°	3224.5	2112.9	69.7	43.0	30.1	19.8	15.5	11.2	8.6	6.0	5.2
62.5°	3313.1	2056.2	55.1	37.0	24.1	17.2	12.9	9.5	6.0	4.3	3.4
65°	3314.8	1935.7	43.0	27.5	18.1	14.6	11.2	7.7	4.3	1.7	0.9
67.5°	3077.4	1675.0	34.4	21.5	14.6	11.2	8.6	6.0	1.7	0.0	0.0
70°	2407.2	1267.3	28.4	17.2	12.0	9.5	6.0	3.4	0.9	0.0	0.0
72.5°	1534.0	758.8	23.2	13.8	10.3	6.9	4.3	2.6	0.0	0.0	0.0
75°	641.8	234.0	18.1	12.0	7.7	5.2	3.4	0.9	0.0	0.0	0.0
77.5°	165.2	74.0	14.6	10.3	7.7	4.3	2.6	0.9	0.0	0.0	0.0
80°	49.0	27.5	12.0	8.6	6.0	3.4	1.7	0.9	0.0	0.0	0.0
82.5°	22.4	16.3	10.3	7.7	5.2	3.4	1.7	0.0	0.0	0.0	0.0
85°	8.6	5.2	5.2	4.3	4.3	2.6	0.9	0.0	0.0	0.0	0.0
87.5°	3.4	1.7	1.7	1.7	0.9	0.9	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)