

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: P482327

Luminaire Tested: **IFLD-S-SA2D-727-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482327  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-727-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

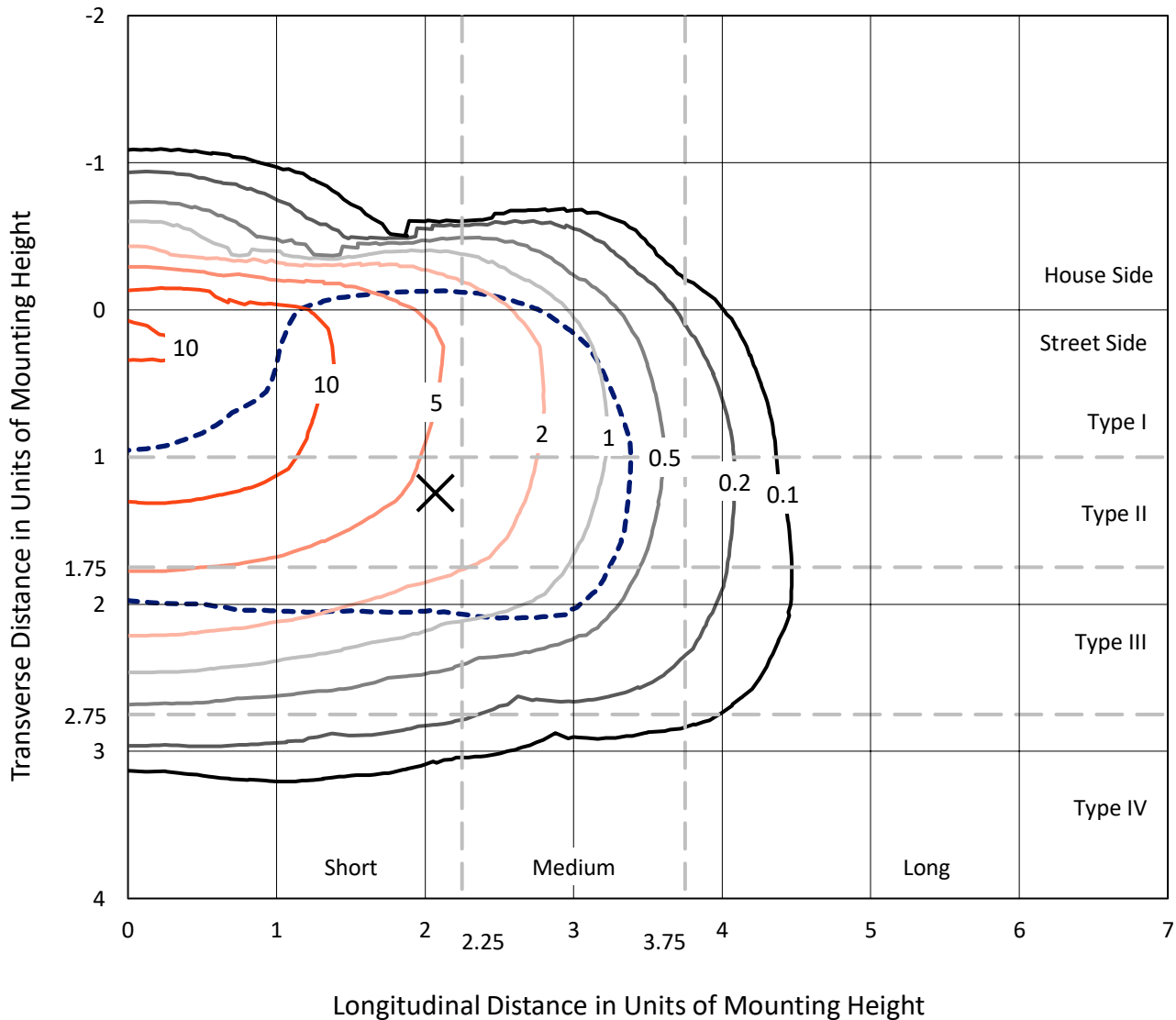
Lumens per Lamp: N/A  
Luminaire Lumens: 9705.2 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9  
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

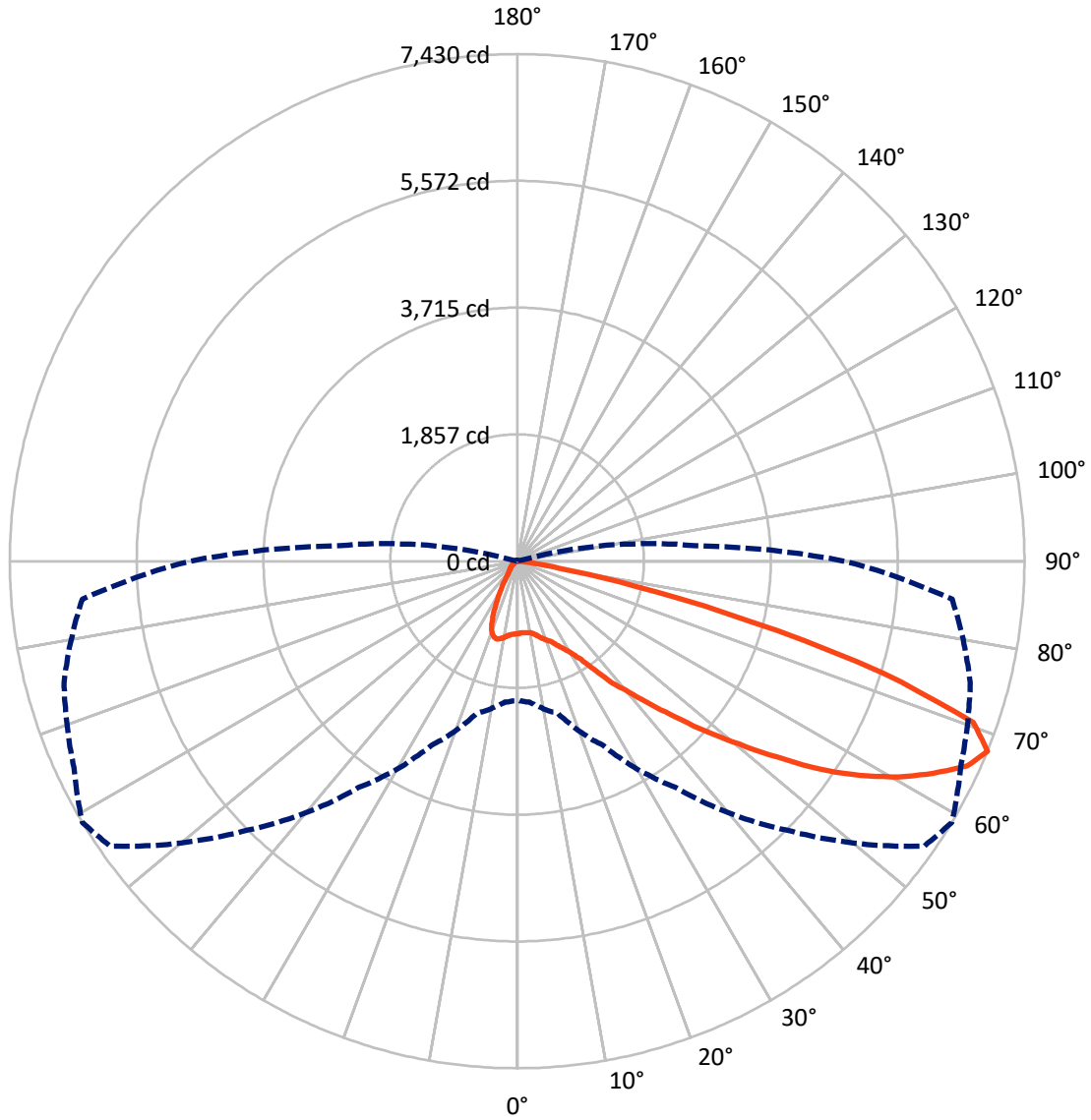
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 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
<b>House Side</b>	Lumens	1140.0	0.0	1140.0
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	8565.1	0.0	8565.1
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	9705.2	0.0	9705.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.1	1.0
10°-20°	292.1	3.0
20°-30°	510.5	5.3
30°-40°	898.8	9.3
40°-50°	1588.7	16.4
50°-60°	2515.5	25.9
60°-70°	2790.4	28.8
70°-80°	968.2	10.0
80°-90°	39.9	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°	9705.2	100.0
0°-180°	9705.2	100.0

**Coefficient of Utilization**

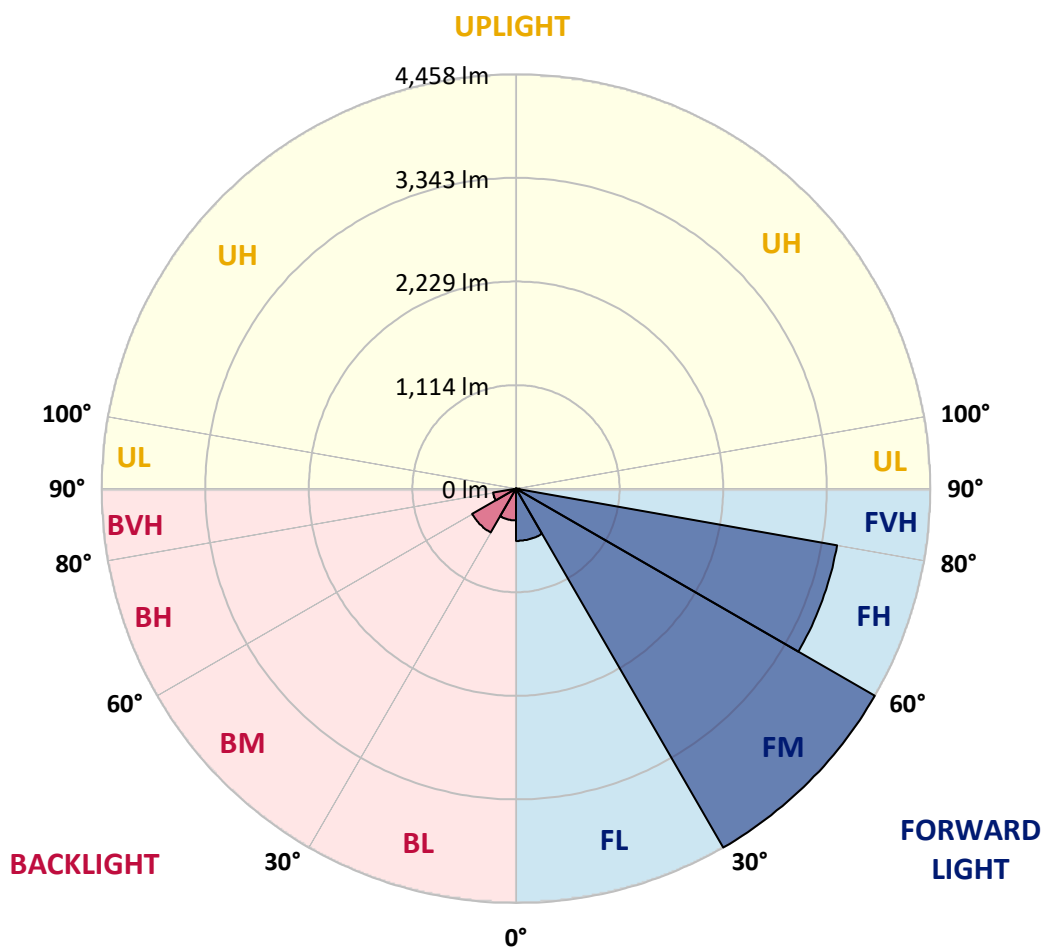


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	562.0	5.8			
FM (30°-60°)	4458.0	45.9			
FH (60°-80°)	3507.9	36.1			G2/5000
FVH (80°-90°)	37.3	0.4			G1/100
BL (0°-30°)	341.7	3.5	B1/500		
BM (30°-60°)	545.1	5.6	B1/1000		
BH (60°-80°)	250.7	2.6	B1/500		G1/500
BVH (80°-90°)	2.6	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1064.5	1064.5	1064.5	1064.5	1064.5	1064.5	1064.5	1064.5	1064.5	1064.5	1064.5
2.5°	1033.6	1018.9	1032.3	1033.6	1035.0	1047.1	1060.5	1051.1	1049.7	1060.5	1069.8
5°	992.1	985.4	1001.5	1009.5	1022.9	1033.6	1055.1	1056.4	1057.8	1069.8	1085.9
7.5°	974.7	958.6	977.3	986.7	996.1	1021.6	1047.1	1060.5	1079.2	1094.0	1110.1
10°	939.8	951.9	957.2	973.3	1000.1	1029.6	1060.5	1067.2	1108.7	1120.8	1159.7
12.5°	951.9	959.9	970.6	974.7	1004.2	1048.4	1090.0	1092.6	1135.5	1187.8	1207.9
15°	982.7	977.3	981.4	986.7	1021.6	1057.8	1124.8	1136.9	1177.1	1236.1	1285.7
17.5°	1048.4	1039.0	1032.3	1031.0	1039.0	1072.5	1151.6	1187.8	1225.4	1305.8	1331.3
20°	1213.3	1205.3	1178.4	1108.7	1084.6	1098.0	1183.8	1234.7	1287.0	1376.9	1418.4
22.5°	1464.0	1472.0	1409.0	1311.2	1210.6	1158.3	1234.7	1279.0	1362.1	1476.1	1513.6
25°	1760.3	1744.2	1667.8	1553.8	1395.6	1272.3	1316.5	1366.1	1468.0	1561.9	1576.6
27.5°	1992.2	1973.5	1914.5	1776.4	1639.6	1439.9	1423.8	1454.6	1575.3	1659.7	1643.6
30°	2221.5	2228.2	2188.0	2024.4	1855.5	1645.0	1543.1	1556.5	1649.0	1757.6	1721.4
32.5°	2513.7	2497.7	2474.9	2331.4	2131.6	1906.4	1732.1	1710.7	1750.9	1894.4	1851.5
35°	2785.9	2776.5	2745.7	2600.9	2426.6	2181.3	2011.0	1962.7	1953.3	2112.9	2037.8
37.5°	3023.2	3007.1	2960.2	2867.7	2698.7	2492.3	2305.9	2263.0	2261.7	2371.6	2226.8
40°	3222.9	3235.0	3229.7	3127.8	3035.3	2870.4	2584.8	2516.4	2511.1	2570.0	2485.6
42.5°	3481.7	3509.8	3495.1	3475.0	3363.7	3299.4	2976.3	2871.7	2824.8	2945.4	2869.0
45°	3873.2	3883.9	3893.3	3843.7	3732.4	3745.8	3381.1	3256.5	3244.4	3424.0	3252.4
47.5°	4239.2	4211.0	4276.7	4279.4	4274.0	4212.4	3818.2	3725.7	3741.8	3878.5	3701.6
50°	4330.3	4402.7	4583.7	4617.2	4704.4	4760.7	4303.5	4211.0	4237.8	4393.3	4190.9
52.5°	4401.4	4511.3	4692.3	4937.7	5172.3	5306.3	4846.5	4771.4	4770.1	4865.3	4586.4
55°	4526.1	4593.1	4750.0	5087.8	5534.2	5754.1	5500.7	5380.1	5271.5	5338.5	4996.6
57.5°	4514.0	4539.5	4783.5	5200.4	5821.1	6220.7	6038.3	5923.0	5783.6	5744.7	5468.6
60°	4302.2	4362.5	4636.0	5124.0	5998.1	6584.0	6539.7	6421.8	6181.8	6090.6	5830.5
62.5°	3882.6	3963.0	4177.5	4855.9	5740.7	6602.8	6885.6	6841.4	6573.3	6409.7	6302.4
65°	3146.5	3184.1	3430.7	4174.8	5158.9	6314.5	7294.5	7239.6	6992.9	6748.9	6545.1
67.5°	2037.8	2074.0	2311.3	2980.3	4051.5	5570.4	7278.4	7429.9	7163.1	6869.5	6393.6
70°	962.6	953.2	1174.4	1655.7	2595.5	4253.9	6786.4	7085.4	6858.8	6227.4	5310.4
72.5°	293.6	319.1	488.0	733.3	1332.6	2653.2	5319.7	5599.9	5528.9	4975.2	3544.7
75°	130.0	140.8	191.7	300.3	540.3	1088.6	3286.0	3535.3	3504.5	2934.7	1618.2
77.5°	83.1	91.2	120.7	171.6	245.3	345.9	1513.6	1756.3	1702.6	1031.0	423.6
80°	59.0	63.0	85.8	118.0	154.2	142.1	521.5	619.4	593.9	280.2	114.0
82.5°	32.2	34.9	63.0	87.1	103.2	72.4	146.1	182.3	190.4	124.7	55.0
85°	12.1	14.7	38.9	61.7	53.6	33.5	42.9	52.3	68.4	68.4	25.5
87.5°	0.0	1.3	16.1	26.8	13.4	9.4	12.1	14.7	18.8	32.2	9.4
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°	1064.5	1064.5	1064.5	1064.5	1064.5	1064.5	1064.5	1064.5	1064.5	1064.5	1064.5
2.5°	1076.6	1067.2	1071.2	1077.9	1063.1	1071.2	1055.1	1067.2	1071.2	1055.1	1063.1
5°	1090.0	1099.3	1094.0	1083.3	1073.9	1076.6	1072.5	1063.1	1071.2	1073.9	1068.5
7.5°	1128.8	1118.1	1120.8	1108.7	1090.0	1088.6	1063.1	1056.4	1059.1	1061.8	1052.4
10°	1165.0	1171.7	1158.3	1148.9	1118.1	1098.0	1063.1	1025.6	1021.6	1005.5	1018.9
12.5°	1229.4	1213.3	1207.9	1177.1	1146.3	1079.2	1004.2	946.5	898.2	880.8	863.4
15°	1283.0	1280.3	1270.9	1224.0	1153.0	1031.0	888.9	754.8	662.3	604.6	596.6
17.5°	1356.7	1344.7	1327.3	1253.5	1103.4	904.9	662.3	493.4	400.9	364.7	351.3
20°	1413.1	1403.7	1379.5	1246.8	1013.5	674.4	410.2	313.7	290.9	284.2	285.6
22.5°	1494.8	1465.3	1419.8	1213.3	850.0	449.1	294.9	280.2	276.2	270.8	272.2
25°	1565.9	1539.1	1443.9	1155.6	606.0	297.6	273.5	265.5	258.7	252.0	250.7
27.5°	1628.9	1595.4	1469.4	1037.7	379.4	256.1	253.4	244.0	230.6	219.9	215.8
30°	1690.6	1651.7	1476.1	816.5	256.1	231.9	225.2	210.5	193.1	178.3	175.6
32.5°	1793.8	1746.9	1466.7	583.2	221.2	206.5	191.7	174.3	148.8	136.7	134.1
35°	1954.7	1883.6	1454.6	343.2	198.4	182.3	159.5	136.7	118.0	105.9	103.2
37.5°	2139.7	2016.4	1419.8	229.3	182.3	160.9	131.4	108.6	92.5	83.1	80.4
40°	2414.5	2210.7	1285.7	187.7	162.2	136.7	105.9	85.8	73.7	67.0	64.4
42.5°	2717.5	2433.3	1079.2	168.9	143.5	116.6	84.5	69.7	60.3	53.6	53.6
45°	3080.8	2665.2	832.6	154.2	127.4	96.5	69.7	56.3	48.3	42.9	40.2
47.5°	3485.7	2875.7	561.7	139.4	107.3	79.1	57.6	42.9	34.9	30.8	30.8
50°	3847.7	3062.1	358.0	122.0	93.8	65.7	46.9	34.9	28.2	22.8	21.5
52.5°	4176.2	3204.2	246.7	107.3	80.4	53.6	38.9	28.2	21.5	17.4	17.4
55°	4512.7	3276.6	182.3	92.5	69.7	45.6	32.2	25.5	18.8	14.7	13.4
57.5°	4788.8	3307.4	139.4	80.4	59.0	36.2	28.2	21.5	16.1	12.1	10.7
60°	5024.8	3292.7	108.6	67.0	46.9	30.8	24.1	17.4	13.4	9.4	8.0
62.5°	5162.9	3204.2	85.8	57.6	37.5	26.8	20.1	14.7	9.4	6.7	5.4
65°	5165.6	3016.5	67.0	42.9	28.2	22.8	17.4	12.1	6.7	2.7	1.3
67.5°	4795.5	2610.3	53.6	33.5	22.8	17.4	13.4	9.4	2.7	0.0	0.0
70°	3751.2	1974.8	44.2	26.8	18.8	14.7	9.4	5.4	1.3	0.0	0.0
72.5°	2390.4	1182.5	36.2	21.5	16.1	10.7	6.7	4.0	0.0	0.0	0.0
75°	1000.1	364.7	28.2	18.8	12.1	8.0	5.4	1.3	0.0	0.0	0.0
77.5°	257.4	115.3	22.8	16.1	12.1	6.7	4.0	1.3	0.0	0.0	0.0
80°	76.4	42.9	18.8	13.4	9.4	5.4	2.7	1.3	0.0	0.0	0.0
82.5°	34.9	25.5	16.1	12.1	8.0	5.4	2.7	0.0	0.0	0.0	0.0
85°	13.4	8.0	8.0	6.7	6.7	4.0	1.3	0.0	0.0	0.0	0.0
87.5°	5.4	2.7	2.7	2.7	1.3	1.3	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)