

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: P482331

Luminaire Tested: **IFLD-S-SA3C-727-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482331  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-727-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

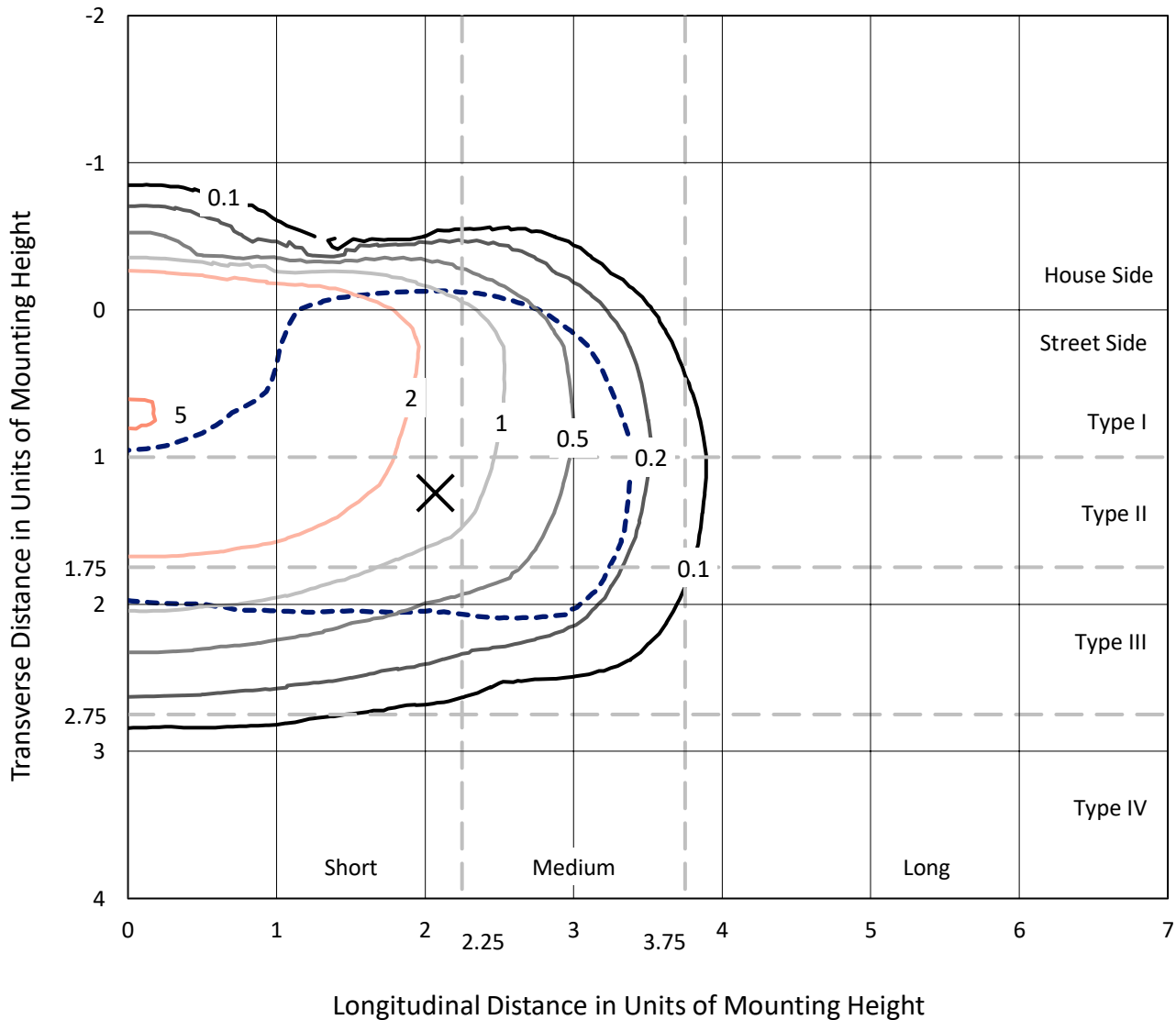
Lumens per Lamp: N/A  
Luminaire Lumens: 13144.6 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 160.8  
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

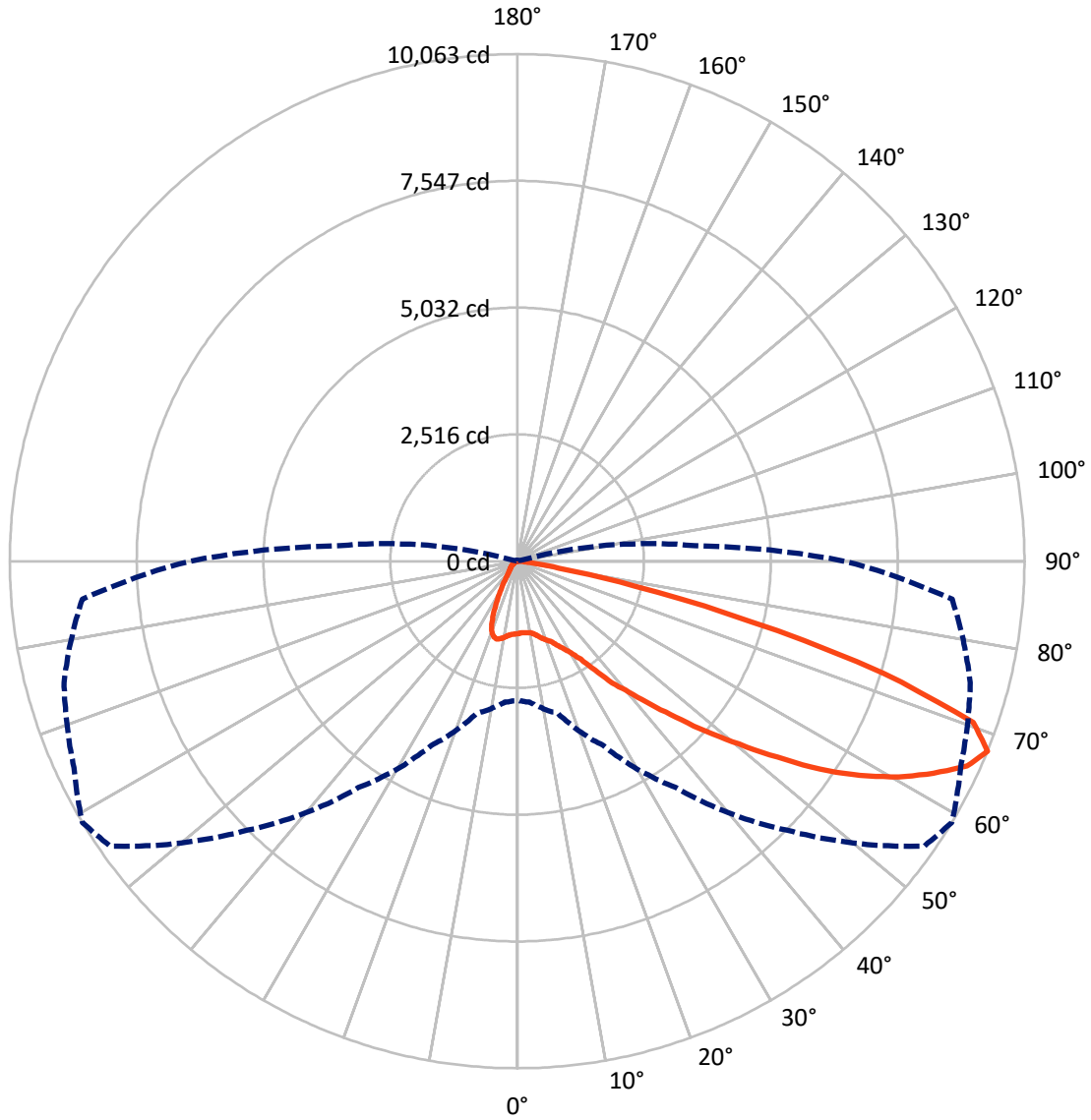
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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	1544.0	0.0	1544.0
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	11600.5	0.0	11600.5
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	13144.6	0.0	13144.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.0	1.0
10°-20°	395.6	3.0
20°-30°	691.4	5.3
30°-40°	1217.3	9.3
40°-50°	2151.8	16.4
50°-60°	3407.0	25.9
60°-70°	3779.3	28.8
70°-80°	1311.3	10.0
80°-90°	54.0	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°	13144.6	100.0
0°-180°	13144.6	100.0

**Coefficient of Utilization**

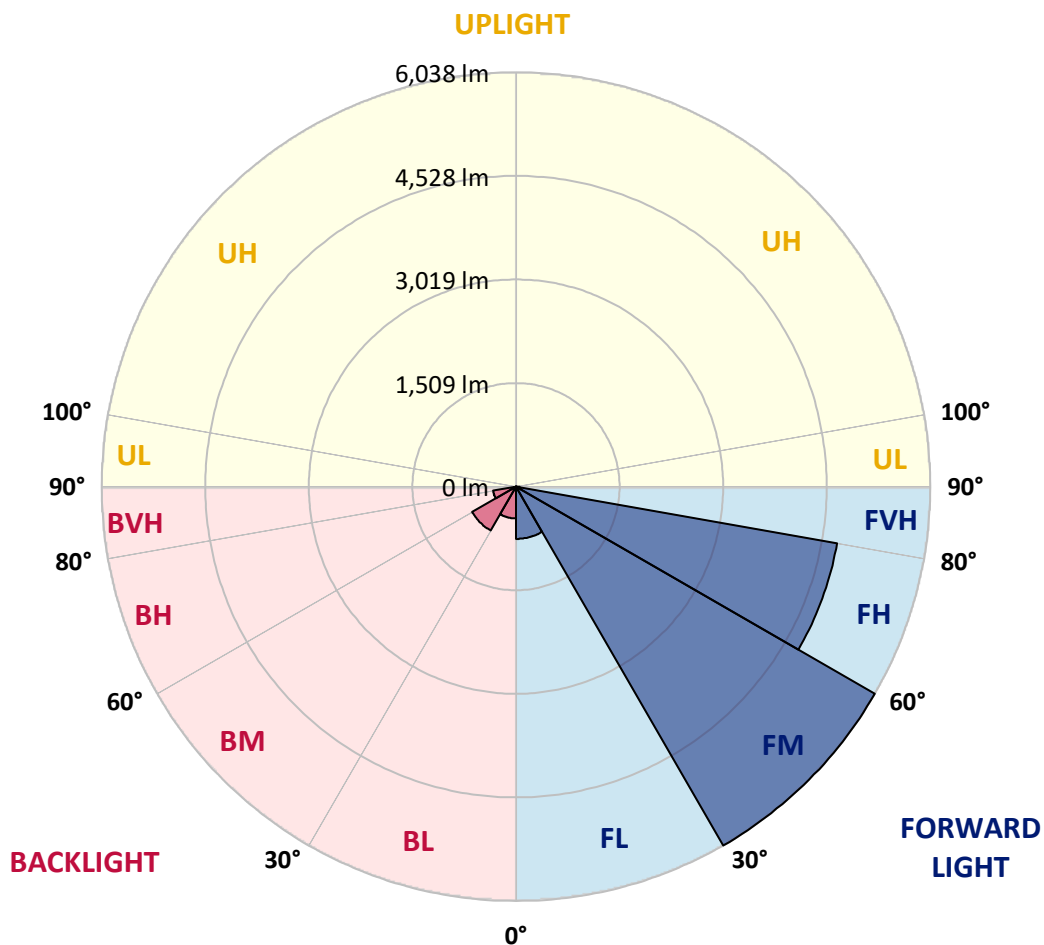


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	761.2	5.8			
FM (30°-60°)	6037.8	45.9			
FH (60°-80°)	4751.1	36.1			G2/5000
FVH (80°-90°)	50.5	0.4			G1/100
BL (0°-30°)	462.8	3.5	B1/500		
BM (30°-60°)	738.2	5.6	B1/1000		
BH (60°-80°)	339.6	2.6	B1/500		G1/500
BVH (80°-90°)	3.5	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1441.7	1441.7	1441.7	1441.7	1441.7	1441.7	1441.7	1441.7	1441.7	1441.7	1441.7
2.5°	1400.0	1380.0	1398.1	1400.0	1401.8	1418.1	1436.3	1423.6	1421.8	1436.3	1449.0
5°	1343.7	1334.6	1356.4	1367.3	1385.4	1400.0	1429.0	1430.8	1432.6	1449.0	1470.8
7.5°	1320.1	1298.3	1323.7	1336.4	1349.1	1383.6	1418.1	1436.3	1461.7	1481.7	1503.5
10°	1272.9	1289.2	1296.5	1318.3	1354.6	1394.5	1436.3	1445.4	1501.6	1518.0	1570.6
12.5°	1289.2	1300.1	1314.6	1320.1	1360.0	1419.9	1476.2	1479.9	1538.0	1608.8	1636.0
15°	1331.0	1323.7	1329.1	1336.4	1383.6	1432.6	1523.4	1539.8	1594.2	1674.1	1741.3
17.5°	1419.9	1407.2	1398.1	1396.3	1407.2	1452.6	1559.7	1608.8	1659.6	1768.6	1803.1
20°	1643.3	1632.4	1596.1	1501.6	1469.0	1487.1	1603.3	1672.3	1743.1	1864.8	1921.1
22.5°	1982.8	1993.7	1908.4	1775.8	1639.6	1568.8	1672.3	1732.2	1844.8	1999.2	2050.0
25°	2384.1	2362.3	2258.8	2104.5	1890.2	1723.2	1783.1	1850.3	1988.3	2115.4	2135.3
27.5°	2698.2	2672.8	2592.9	2405.9	2220.7	1950.1	1928.4	1970.1	2133.5	2247.9	2226.1
30°	3008.7	3017.8	2963.3	2741.8	2513.0	2228.0	2090.0	2108.1	2233.4	2380.5	2331.5
32.5°	3404.6	3382.8	3351.9	3157.6	2887.1	2582.0	2346.0	2316.9	2371.4	2565.7	2507.6
35°	3773.2	3760.5	3718.7	3522.6	3286.6	2954.3	2723.7	2658.3	2645.6	2861.7	2760.0
37.5°	4094.6	4072.8	4009.2	3883.9	3655.2	3375.5	3123.1	3065.0	3063.2	3212.1	3016.0
40°	4365.1	4381.5	4374.2	4236.2	4110.9	3887.6	3500.8	3408.2	3400.9	3480.8	3366.4
42.5°	4715.6	4753.7	4733.7	4706.5	4555.8	4468.6	4031.0	3889.4	3825.8	3989.3	3885.8
45°	5245.8	5260.3	5273.0	5205.8	5055.1	5073.3	4579.4	4410.5	4394.2	4637.5	4405.1
47.5°	5741.5	5703.3	5792.3	5795.9	5788.7	5705.2	5171.3	5046.0	5067.8	5253.0	5013.4
50°	5864.9	5963.0	6208.1	6253.5	6371.6	6447.8	5828.6	5703.3	5739.7	5950.3	5676.1
52.5°	5961.2	6110.1	6355.2	6687.5	7005.3	7186.8	6564.0	6462.3	6460.5	6589.4	6211.8
55°	6130.1	6220.8	6433.3	6890.9	7495.5	7793.3	7450.1	7286.7	7139.6	7230.4	6767.4
57.5°	6113.7	6148.2	6478.7	7043.4	7884.1	8425.2	8178.2	8022.1	7833.2	7780.6	7406.5
60°	5826.8	5908.5	6278.9	6939.9	8123.8	8917.3	8857.3	8697.6	8372.5	8249.1	7896.8
62.5°	5258.5	5367.4	5658.0	6576.7	7775.1	8942.7	9325.8	9265.9	8902.7	8681.2	8536.0
65°	4261.6	4312.5	4646.6	5654.3	6987.1	8552.3	9879.6	9805.2	9471.1	9140.6	8864.6
67.5°	2760.0	2809.0	3130.4	4036.5	5487.3	7544.5	9857.8	10063.0	9701.7	9304.0	8659.4
70°	1303.7	1291.0	1590.6	2242.5	3515.3	5761.5	9191.4	9596.4	9289.5	8434.3	7192.3
72.5°	397.7	432.2	660.9	993.2	1804.9	3593.4	7205.0	7584.5	7488.3	6738.3	4800.9
75°	176.1	190.7	259.7	406.7	731.8	1474.4	4450.5	4788.2	4746.4	3974.7	2191.6
77.5°	112.6	123.5	163.4	232.4	332.3	468.5	2050.0	2378.7	2306.0	1396.3	573.8
80°	79.9	85.3	116.2	159.8	208.8	192.5	706.3	838.9	804.4	379.5	154.3
82.5°	43.6	47.2	85.3	118.0	139.8	98.1	197.9	246.9	257.8	168.9	74.4
85°	16.3	20.0	52.7	83.5	72.6	45.4	58.1	70.8	92.6	92.6	34.5
87.5°	0.0	1.8	21.8	36.3	18.2	12.7	16.3	20.0	25.4	43.6	12.7
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°	1441.7	1441.7	1441.7	1441.7	1441.7	1441.7	1441.7	1441.7	1441.7	1441.7	1441.7
2.5°	1458.1	1445.4	1450.8	1459.9	1439.9	1450.8	1429.0	1445.4	1450.8	1429.0	1439.9
5°	1476.2	1488.9	1481.7	1467.1	1454.4	1458.1	1452.6	1439.9	1450.8	1454.4	1447.2
7.5°	1528.9	1514.4	1518.0	1501.6	1476.2	1474.4	1439.9	1430.8	1434.5	1438.1	1425.4
10°	1577.9	1587.0	1568.8	1556.1	1514.4	1487.1	1439.9	1389.1	1383.6	1361.8	1380.0
12.5°	1665.1	1643.3	1636.0	1594.2	1552.5	1461.7	1360.0	1281.9	1216.6	1193.0	1169.4
15°	1737.7	1734.1	1721.4	1657.8	1561.6	1396.3	1203.9	1022.3	897.0	818.9	808.0
17.5°	1837.6	1821.2	1797.6	1697.7	1494.4	1225.6	897.0	668.2	542.9	493.9	475.7
20°	1913.8	1901.1	1868.4	1688.7	1372.7	913.3	555.6	424.9	394.0	384.9	386.8
22.5°	2024.6	1984.6	1922.9	1643.3	1151.2	608.3	399.5	379.5	374.0	366.8	368.6
25°	2120.8	2084.5	1955.6	1565.2	820.7	403.1	370.4	359.5	350.4	341.4	339.5
27.5°	2206.2	2160.8	1990.1	1405.4	513.9	346.8	343.2	330.5	312.3	297.8	292.3
30°	2289.7	2237.0	1999.2	1105.8	346.8	314.1	305.0	285.1	261.5	241.5	237.9
32.5°	2429.5	2366.0	1986.5	789.9	299.6	279.6	259.7	236.1	201.6	185.2	181.6
35°	2647.4	2551.2	1970.1	464.8	268.7	246.9	216.1	185.2	159.8	143.4	139.8
37.5°	2898.0	2730.9	1922.9	310.5	246.9	217.9	177.9	147.1	125.3	112.6	108.9
40°	3270.2	2994.2	1741.3	254.2	219.7	185.2	143.4	116.2	99.9	90.8	87.2
42.5°	3680.6	3295.6	1461.7	228.8	194.3	158.0	114.4	94.4	81.7	72.6	72.6
45°	4172.6	3609.8	1127.6	208.8	172.5	130.7	94.4	76.3	65.4	58.1	54.5
47.5°	4721.0	3894.8	760.8	188.8	145.3	107.1	78.1	58.1	47.2	41.8	41.8
50°	5211.3	4147.2	484.8	165.2	127.1	89.0	63.6	47.2	38.1	30.9	29.1
52.5°	5656.1	4339.7	334.1	145.3	108.9	72.6	52.7	38.1	29.1	23.6	23.6
55°	6111.9	4437.8	246.9	125.3	94.4	61.7	43.6	34.5	25.4	20.0	18.2
57.5°	6485.9	4479.5	188.8	108.9	79.9	49.0	38.1	29.1	21.8	16.3	14.5
60°	6805.5	4459.5	147.1	90.8	63.6	41.8	32.7	23.6	18.2	12.7	10.9
62.5°	6992.5	4339.7	116.2	78.1	50.8	36.3	27.2	20.0	12.7	9.1	7.3
65°	6996.2	4085.5	90.8	58.1	38.1	30.9	23.6	16.3	9.1	3.6	1.8
67.5°	6495.0	3535.3	72.6	45.4	30.9	23.6	18.2	12.7	3.6	0.0	0.0
70°	5080.5	2674.6	59.9	36.3	25.4	20.0	12.7	7.3	1.8	0.0	0.0
72.5°	3237.5	1601.5	49.0	29.1	21.8	14.5	9.1	5.4	0.0	0.0	0.0
75°	1354.6	493.9	38.1	25.4	16.3	10.9	7.3	1.8	0.0	0.0	0.0
77.5°	348.6	156.2	30.9	21.8	16.3	9.1	5.4	1.8	0.0	0.0	0.0
80°	103.5	58.1	25.4	18.2	12.7	7.3	3.6	1.8	0.0	0.0	0.0
82.5°	47.2	34.5	21.8	16.3	10.9	7.3	3.6	0.0	0.0	0.0	0.0
85°	18.2	10.9	10.9	9.1	9.1	5.4	1.8	0.0	0.0	0.0	0.0
87.5°	7.3	3.6	3.6	3.6	1.8	1.8	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)