

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: P482447

Luminaire Tested: **IFLD-S-SA3B-740-U-T3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482447  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-740-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

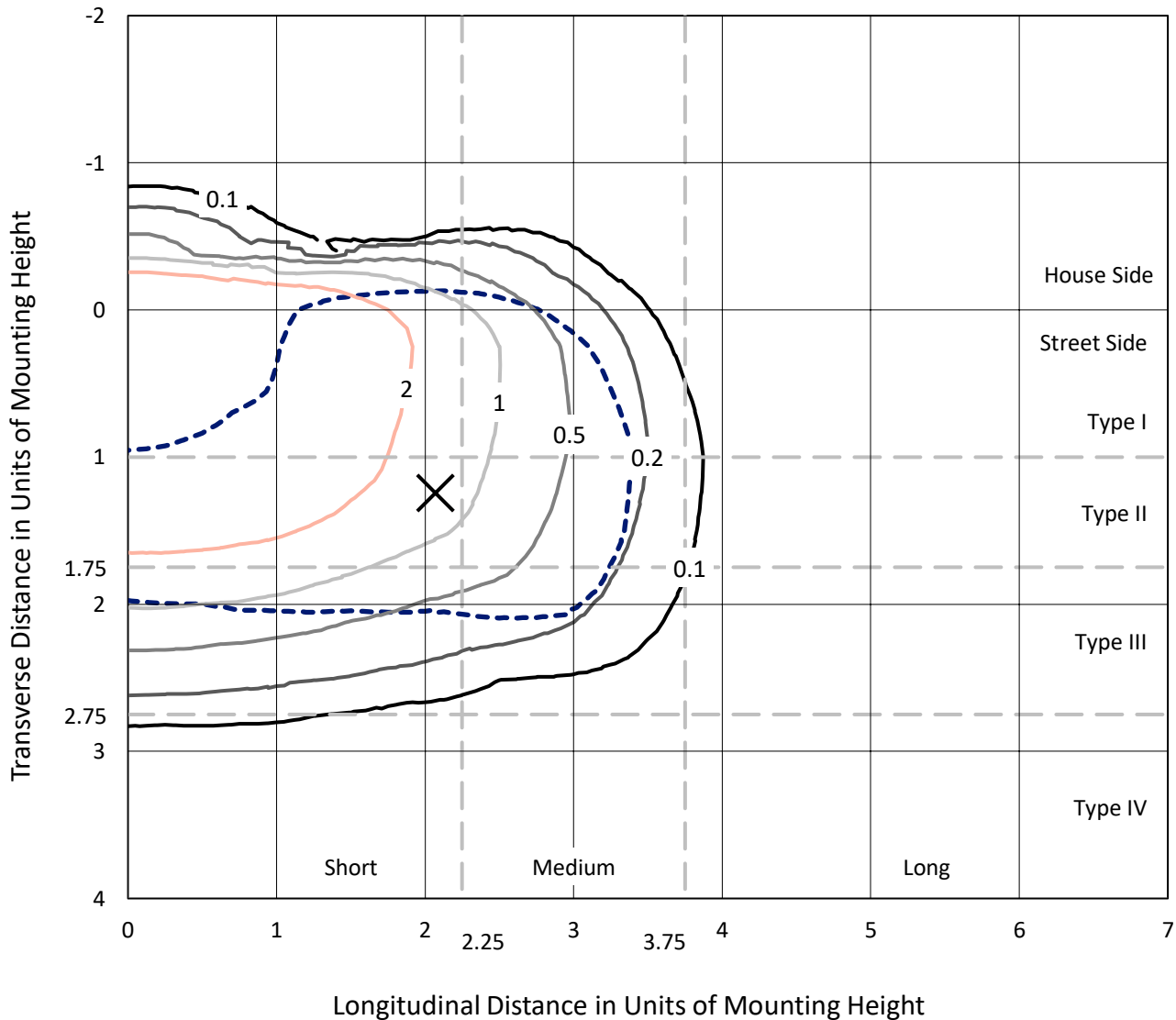
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12626.2 lumens  
Efficiency: N/A  
Efficacy: 103.2 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): 122.4  
Input Voltage (V): 120  
Input Current (Ain): 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

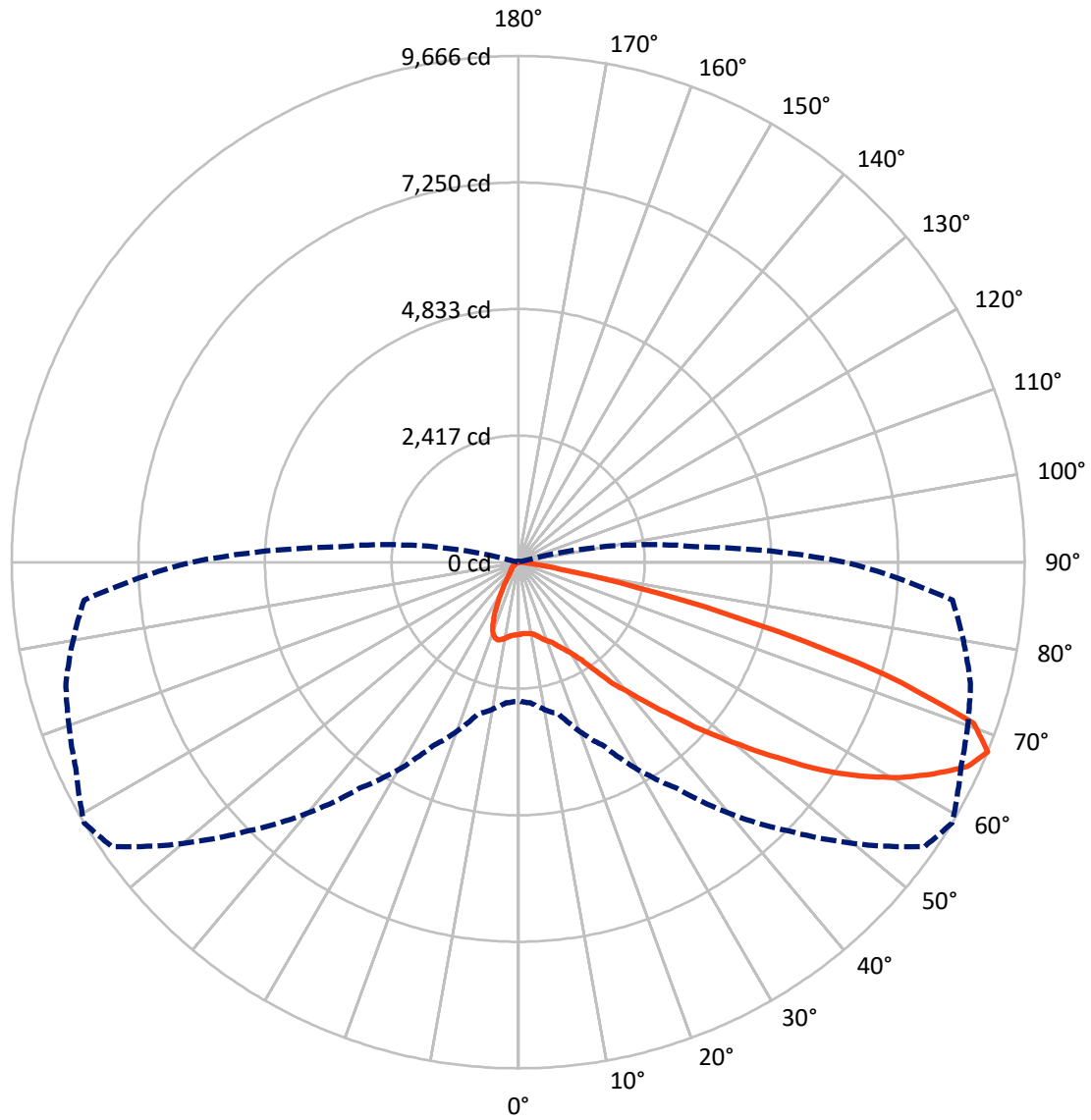
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 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	1483.2	0.0	1483.2
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	11143.0	0.0	11143.0
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	12626.2	0.0	12626.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.6	1.0
10°-20°	380.0	3.0
20°-30°	664.1	5.3
30°-40°	1169.3	9.3
40°-50°	2066.9	16.4
50°-60°	3272.6	25.9
60°-70°	3630.2	28.8
70°-80°	1259.6	10.0
80°-90°	51.9	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°	12626.2	100.0
0°-180°	12626.2	100.0

**Coefficient of Utilization**

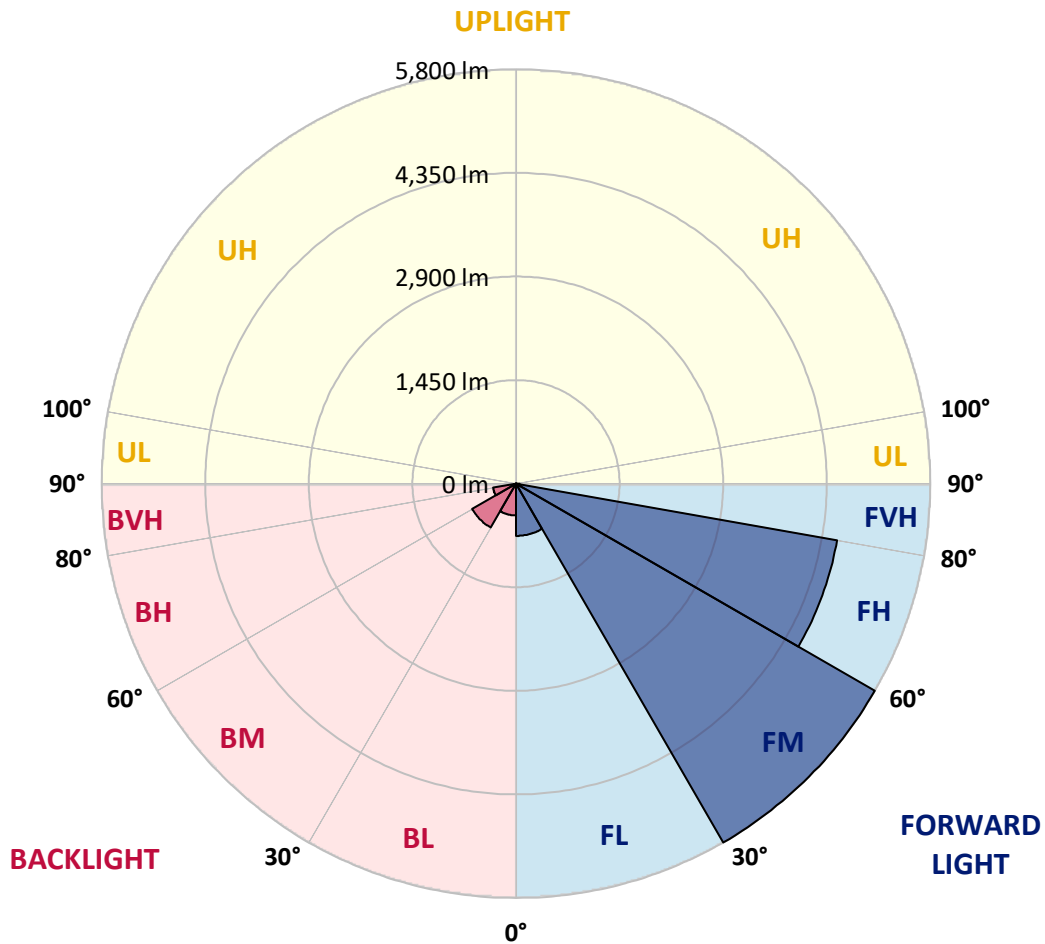


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	731.2	5.8			
FM (30°-60°)	5799.7	45.9			
FH (60°-80°)	4563.7	36.1			G2/5000
FVH (80°-90°)	48.5	0.4			G1/100
BL (0°-30°)	444.5	3.5	B1/500		
BM (30°-60°)	709.1	5.6	B1/1000		
BH (60°-80°)	326.2	2.6	B1/500		G1/500
BVH (80°-90°)	3.4	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°	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9
2.5°	1344.7	1325.6	1343.0	1344.7	1346.5	1362.2	1379.6	1367.4	1365.7	1379.6	1391.8
5°	1290.7	1282.0	1302.9	1313.4	1330.8	1344.7	1372.7	1374.4	1376.1	1391.8	1412.8
7.5°	1268.0	1247.1	1271.5	1283.7	1295.9	1329.1	1362.2	1379.6	1404.1	1423.2	1444.2
10°	1222.7	1238.4	1245.3	1266.3	1301.1	1339.5	1379.6	1388.4	1442.4	1458.1	1508.7
12.5°	1238.4	1248.8	1262.8	1268.0	1306.4	1363.9	1418.0	1421.5	1477.3	1545.3	1571.5
15°	1278.5	1271.5	1276.7	1283.7	1329.1	1376.1	1463.4	1479.1	1531.4	1608.1	1672.7
17.5°	1363.9	1351.7	1343.0	1341.3	1351.7	1395.3	1498.2	1545.3	1594.2	1698.8	1732.0
20°	1578.5	1568.0	1533.1	1442.4	1411.0	1428.5	1540.1	1606.4	1674.4	1791.3	1845.3
22.5°	1904.6	1915.1	1833.1	1705.8	1575.0	1507.0	1606.4	1663.9	1772.1	1920.3	1969.2
25°	2290.1	2269.2	2169.7	2021.5	1815.7	1655.2	1712.8	1777.3	1909.9	2032.0	2051.1
27.5°	2591.8	2567.4	2490.7	2311.0	2133.1	1873.2	1852.3	1892.4	2049.4	2159.3	2138.3
30°	2890.1	2898.8	2846.5	2633.7	2413.9	2140.1	2007.5	2025.0	2145.3	2286.6	2239.5
32.5°	3270.3	3249.4	3219.7	3033.1	2773.2	2480.2	2253.5	2225.6	2277.9	2464.5	2408.7
35°	3624.4	3612.2	3572.0	3383.7	3156.9	2837.8	2616.2	2553.5	2541.2	2748.8	2651.1
37.5°	3933.1	3912.2	3851.1	3730.8	3511.0	3242.4	3000.0	2944.1	2942.4	3085.4	2897.1
40°	4193.0	4208.7	4201.7	4069.1	3948.8	3734.3	3362.7	3273.8	3266.8	3343.6	3233.7
42.5°	4529.6	4566.2	4547.0	4520.9	4376.1	4292.4	3872.0	3736.0	3675.0	3831.9	3732.5
45°	5038.9	5052.8	5065.1	5000.5	4855.8	4873.2	4398.8	4236.6	4220.9	4454.6	4231.3
47.5°	5515.0	5478.4	5563.9	5567.4	5560.4	5480.2	4967.4	4847.0	4868.0	5045.9	4815.6
50°	5633.6	5727.8	5963.3	6006.9	6120.3	6193.5	5598.8	5478.4	5513.3	5715.6	5452.3
52.5°	5726.1	5869.1	6104.6	6423.8	6729.0	6903.4	6305.2	6207.5	6205.7	6329.6	5966.8
55°	5888.3	5975.5	6179.6	6619.1	7199.9	7485.9	7156.3	6999.3	6858.0	6945.3	6500.5
57.5°	5872.6	5905.7	6223.2	6765.6	7573.2	8092.9	7855.7	7705.7	7524.3	7473.7	7114.4
60°	5597.0	5675.5	6031.3	6666.2	7803.4	8565.6	8508.0	8354.5	8042.3	7923.7	7585.4
62.5°	5051.1	5155.7	5434.8	6317.4	7468.5	8590.0	8958.0	8900.5	8551.6	8338.8	8199.3
65°	4093.6	4142.4	4463.3	5431.3	6711.5	8215.0	9490.0	9418.5	9097.6	8780.1	8515.0
67.5°	2651.1	2698.2	3006.9	3877.3	5270.9	7247.0	9469.1	9666.2	9319.1	8937.1	8317.9
70°	1252.3	1240.1	1527.9	2154.0	3376.7	5534.2	8829.0	9217.9	8923.1	8101.6	6908.6
72.5°	382.0	415.1	634.9	954.1	1733.7	3451.7	6920.8	7285.4	7192.9	6472.6	4611.6
75°	169.2	183.1	249.4	390.7	702.9	1416.3	4274.9	4599.4	4559.2	3818.0	2105.2
77.5°	108.1	118.6	157.0	223.3	319.2	450.0	1969.2	2284.9	2215.1	1341.3	551.2
80°	76.7	82.0	111.6	153.5	200.6	184.9	678.5	805.8	772.7	364.5	148.3
82.5°	41.9	45.3	82.0	113.4	134.3	94.2	190.1	237.2	247.7	162.2	71.5
85°	15.7	19.2	50.6	80.2	69.8	43.6	55.8	68.0	89.0	89.0	33.1
87.5°	0.0	1.7	20.9	34.9	17.4	12.2	15.7	19.2	24.4	41.9	12.2
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°	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9
2.5°	1400.6	1388.4	1393.6	1402.3	1383.1	1393.6	1372.7	1388.4	1393.6	1372.7	1383.1
5°	1418.0	1430.2	1423.2	1409.3	1397.1	1400.6	1395.3	1383.1	1393.6	1397.1	1390.1
7.5°	1468.6	1454.6	1458.1	1442.4	1418.0	1416.3	1383.1	1374.4	1377.9	1381.4	1369.2
10°	1515.7	1524.4	1507.0	1494.7	1454.6	1428.5	1383.1	1334.3	1329.1	1308.1	1325.6
12.5°	1599.4	1578.5	1571.5	1531.4	1491.3	1404.1	1306.4	1231.4	1168.6	1145.9	1123.2
15°	1669.2	1665.7	1653.5	1592.4	1500.0	1341.3	1156.4	982.0	861.6	786.6	776.2
17.5°	1765.1	1749.4	1726.7	1630.8	1435.4	1177.3	861.6	641.9	521.5	474.4	457.0
20°	1838.3	1826.1	1794.7	1622.1	1318.6	877.3	533.7	408.1	378.5	369.8	371.5
22.5°	1944.7	1906.4	1847.1	1578.5	1105.8	584.3	383.7	364.5	359.3	352.3	354.1
25°	2037.2	2002.3	1878.5	1503.5	788.4	387.2	355.8	345.3	336.6	327.9	326.2
27.5°	2119.2	2075.6	1911.6	1350.0	493.6	333.1	329.6	317.4	300.0	286.0	280.8
30°	2199.4	2148.8	1920.3	1062.2	333.1	301.7	293.0	273.8	251.2	232.0	228.5
32.5°	2333.7	2272.6	1908.1	758.7	287.8	268.6	249.4	226.7	193.6	177.9	174.4
35°	2543.0	2450.5	1892.4	446.5	258.1	237.2	207.6	177.9	153.5	137.8	134.3
37.5°	2783.7	2623.2	1847.1	298.3	237.2	209.3	170.9	141.3	120.3	108.1	104.6
40°	3141.2	2876.1	1672.7	244.2	211.0	177.9	137.8	111.6	95.9	87.2	83.7
42.5°	3535.4	3165.7	1404.1	219.8	186.6	151.7	109.9	90.7	78.5	69.8	69.8
45°	4008.1	3467.4	1083.1	200.6	165.7	125.6	90.7	73.3	62.8	55.8	52.3
47.5°	4534.8	3741.2	730.8	181.4	139.5	102.9	75.0	55.8	45.3	40.1	40.1
50°	5005.7	3983.7	465.7	158.7	122.1	85.5	61.0	45.3	36.6	29.7	27.9
52.5°	5433.1	4168.6	320.9	139.5	104.6	69.8	50.6	36.6	27.9	22.7	22.7
55°	5870.9	4262.7	237.2	120.3	90.7	59.3	41.9	33.1	24.4	19.2	17.4
57.5°	6230.2	4302.9	181.4	104.6	76.7	47.1	36.6	27.9	20.9	15.7	14.0
60°	6537.1	4283.7	141.3	87.2	61.0	40.1	31.4	22.7	17.4	12.2	10.5
62.5°	6716.8	4168.6	111.6	75.0	48.8	34.9	26.2	19.2	12.2	8.7	7.0
65°	6720.3	3924.4	87.2	55.8	36.6	29.7	22.7	15.7	8.7	3.5	1.7
67.5°	6238.9	3395.9	69.8	43.6	29.7	22.7	17.4	12.2	3.5	0.0	0.0
70°	4880.2	2569.2	57.6	34.9	24.4	19.2	12.2	7.0	1.7	0.0	0.0
72.5°	3109.8	1538.4	47.1	27.9	20.9	14.0	8.7	5.2	0.0	0.0	0.0
75°	1301.1	474.4	36.6	24.4	15.7	10.5	7.0	1.7	0.0	0.0	0.0
77.5°	334.9	150.0	29.7	20.9	15.7	8.7	5.2	1.7	0.0	0.0	0.0
80°	99.4	55.8	24.4	17.4	12.2	7.0	3.5	1.7	0.0	0.0	0.0
82.5°	45.3	33.1	20.9	15.7	10.5	7.0	3.5	0.0	0.0	0.0	0.0
85°	17.4	10.5	10.5	8.7	8.7	5.2	1.7	0.0	0.0	0.0	0.0
87.5°	7.0	3.5	3.5	3.5	1.7	1.7	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)