

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: P482566

Luminaire Tested: **IFLD-S-SA3D-827-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482566  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-827-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

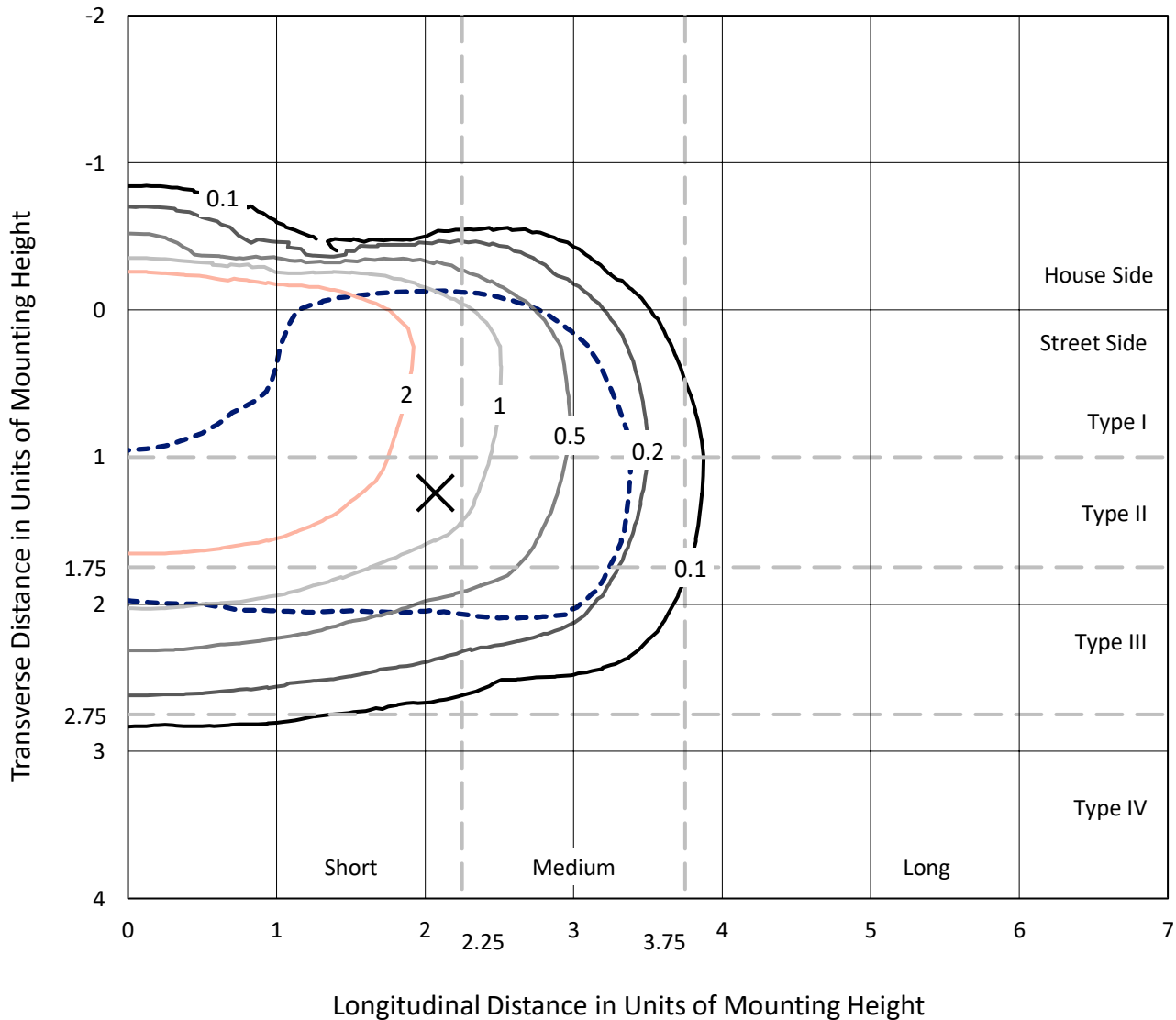
Lumens per Lamp: N/A  
Luminaire Lumens: 12713.1 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 184.1  
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

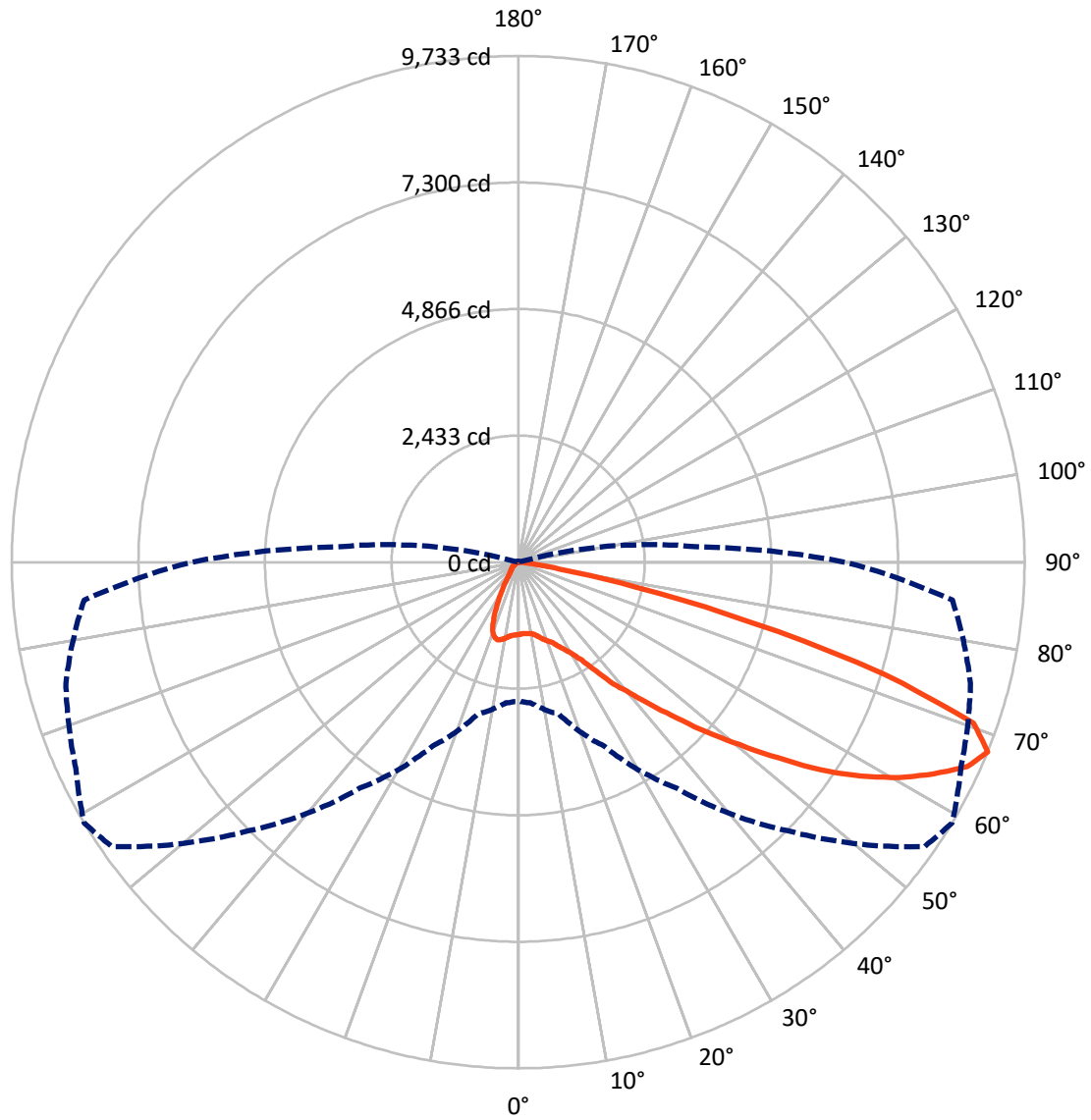
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 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	1493.4	0.0	1493.4
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	11219.7	0.0	11219.7
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	12713.1	0.0	12713.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.5	1.0
10°-20°	382.6	3.0
20°-30°	668.7	5.3
30°-40°	1177.3	9.3
40°-50°	2081.1	16.4
50°-60°	3295.2	25.9
60°-70°	3655.2	28.8
70°-80°	1268.3	10.0
80°-90°	52.2	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°	12713.1	100.0
0°-180°	12713.1	100.0

**Coefficient of Utilization**

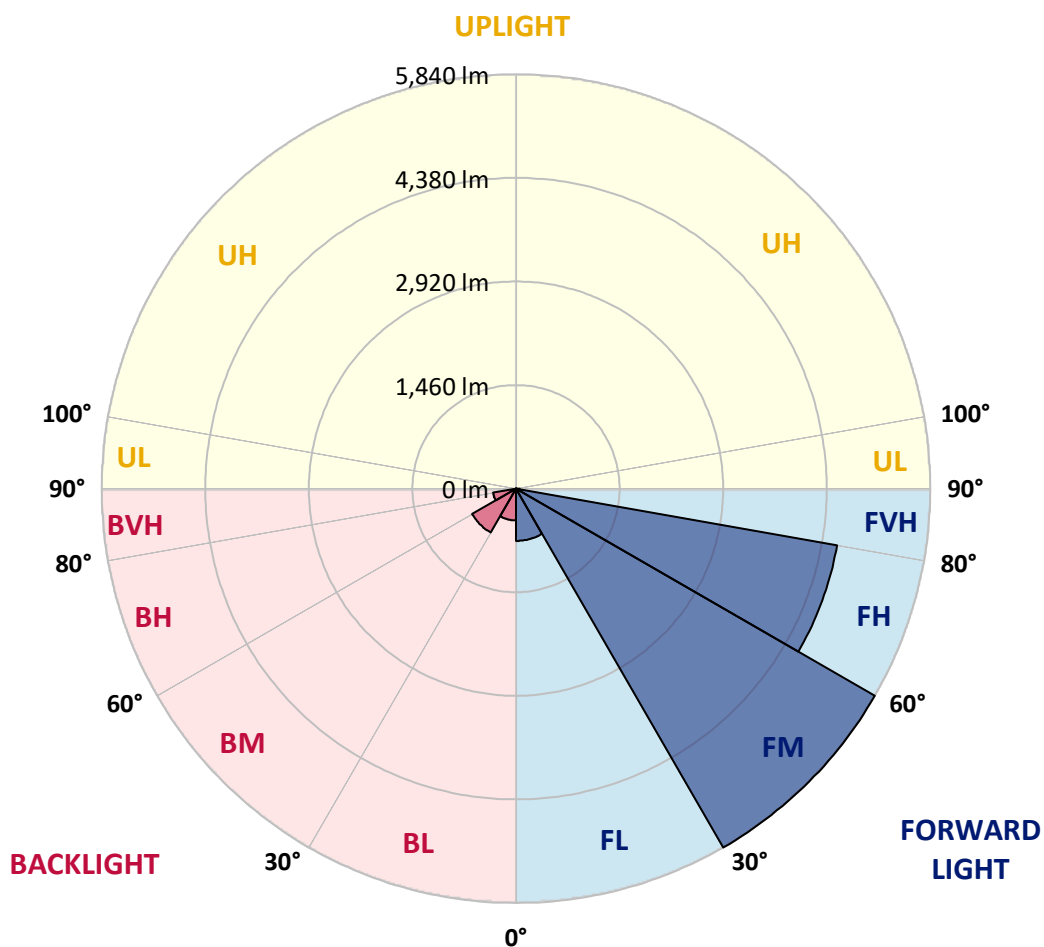


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	736.2	5.8			
FM (30°-60°)	5839.6	45.9			
FH (60°-80°)	4595.1	36.1			G2/5000
FVH (80°-90°)	48.8	0.4			G1/100
BL (0°-30°)	447.6	3.5	B1/500		
BM (30°-60°)	714.0	5.6	B1/1000		
BH (60°-80°)	328.4	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°	1394.4	1394.4	1394.4	1394.4	1394.4	1394.4	1394.4	1394.4	1394.4	1394.4	1394.4
2.5°	1354.0	1334.7	1352.2	1354.0	1355.8	1371.6	1389.1	1376.8	1375.1	1389.1	1401.4
5°	1299.6	1290.8	1311.9	1322.4	1340.0	1354.0	1382.1	1383.9	1385.6	1401.4	1422.5
7.5°	1276.7	1255.7	1280.2	1292.5	1304.8	1338.2	1371.6	1389.1	1413.7	1433.0	1454.1
10°	1231.1	1246.9	1253.9	1275.0	1310.1	1348.7	1389.1	1397.9	1452.4	1468.2	1519.1
12.5°	1246.9	1257.4	1271.5	1276.7	1315.4	1373.3	1427.8	1431.3	1487.5	1556.0	1582.3
15°	1287.3	1280.2	1285.5	1292.5	1338.2	1385.6	1473.4	1489.2	1541.9	1619.2	1684.2
17.5°	1373.3	1361.0	1352.2	1350.5	1361.0	1404.9	1508.5	1556.0	1605.1	1710.5	1743.9
20°	1589.3	1578.8	1543.7	1452.4	1420.7	1438.3	1550.7	1617.4	1685.9	1803.6	1858.0
22.5°	1917.7	1928.3	1845.7	1717.5	1585.8	1517.3	1617.4	1675.4	1784.3	1933.5	1982.7
25°	2305.8	2284.8	2184.7	2035.4	1828.2	1666.6	1724.6	1789.5	1923.0	2045.9	2065.3
27.5°	2609.7	2585.1	2507.8	2326.9	2147.8	1886.1	1865.1	1905.4	2063.5	2174.1	2153.1
30°	2910.0	2918.8	2866.1	2651.8	2430.5	2154.8	2021.3	2038.9	2160.1	2302.3	2254.9
32.5°	3292.8	3271.7	3241.9	3054.0	2792.3	2497.3	2269.0	2240.9	2293.6	2481.5	2425.3
35°	3649.3	3637.0	3596.6	3407.0	3178.7	2857.3	2634.3	2571.0	2558.7	2767.7	2669.4
37.5°	3960.2	3939.1	3877.6	3756.4	3535.2	3264.7	3020.6	2964.4	2962.7	3106.7	2917.0
40°	4221.8	4237.6	4230.6	4097.1	3976.0	3760.0	3385.9	3296.3	3289.3	3366.6	3255.9
42.5°	4560.8	4597.6	4578.3	4552.0	4406.2	4321.9	3898.7	3761.7	3700.2	3858.3	3758.2
45°	5073.6	5087.6	5099.9	5034.9	4889.2	4906.7	4429.1	4265.7	4249.9	4485.3	4260.5
47.5°	5553.0	5516.1	5602.2	5605.7	5598.7	5517.9	5001.6	4880.4	4901.5	5080.6	4848.8
50°	5672.4	5767.3	6004.3	6048.2	6162.4	6236.2	5637.3	5516.1	5551.2	5755.0	5489.8
52.5°	5765.5	5909.5	6146.6	6468.0	6775.3	6950.9	6348.5	6250.2	6248.4	6373.1	6007.9
55°	5928.8	6016.6	6222.1	6664.7	7249.5	7537.5	7205.6	7047.5	6905.3	6993.1	6545.2
57.5°	5913.0	5946.4	6266.0	6812.2	7625.3	8148.6	7909.8	7758.8	7576.1	7525.2	7163.4
60°	5635.5	5714.6	6072.8	6712.1	7857.1	8624.5	8566.6	8412.0	8097.7	7978.3	7637.6
62.5°	5085.9	5191.2	5472.2	6360.8	7519.9	8649.1	9019.7	8961.7	8610.5	8396.2	8255.7
65°	4121.7	4170.9	4494.0	5468.7	6757.7	8271.6	9555.3	9483.3	9160.2	8840.6	8573.6
67.5°	2669.4	2716.8	3027.6	3904.0	5307.1	7296.9	9534.2	9732.7	9383.2	8998.6	8375.2
70°	1260.9	1248.6	1538.4	2168.9	3399.9	5572.3	8889.7	9281.3	8984.6	8157.4	6956.2
72.5°	384.6	418.0	639.2	960.6	1745.6	3475.5	6968.5	7335.5	7242.4	6517.1	4643.3
75°	170.3	184.4	251.1	393.4	707.7	1426.0	4304.4	4631.0	4590.6	3844.3	2119.7
77.5°	108.9	119.4	158.1	224.8	321.4	453.1	1982.7	2300.6	2230.3	1350.5	554.9
80°	77.3	82.5	112.4	154.5	202.0	186.2	683.1	811.3	778.0	367.0	149.3
82.5°	42.1	45.7	82.5	114.2	135.2	94.8	191.4	238.8	249.4	163.3	72.0
85°	15.8	19.3	50.9	80.8	70.2	43.9	56.2	68.5	89.6	89.6	33.4
87.5°	0.0	1.8	21.1	35.1	17.6	12.3	15.8	19.3	24.6	42.1	12.3
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°	1394.4	1394.4	1394.4	1394.4	1394.4	1394.4	1394.4	1394.4	1394.4	1394.4	1394.4
2.5°	1410.2	1397.9	1403.2	1412.0	1392.6	1403.2	1382.1	1397.9	1403.2	1382.1	1392.6
5°	1427.8	1440.1	1433.0	1419.0	1406.7	1410.2	1404.9	1392.6	1403.2	1406.7	1399.7
7.5°	1478.7	1464.6	1468.2	1452.4	1427.8	1426.0	1392.6	1383.9	1387.4	1390.9	1378.6
10°	1526.1	1534.9	1517.3	1505.0	1464.6	1438.3	1392.6	1343.5	1338.2	1317.1	1334.7
12.5°	1610.4	1589.3	1582.3	1541.9	1501.5	1413.7	1315.4	1239.9	1176.6	1153.8	1131.0
15°	1680.7	1677.1	1664.8	1603.4	1510.3	1350.5	1164.3	988.7	867.5	792.0	781.5
17.5°	1777.2	1761.4	1738.6	1642.0	1445.3	1185.4	867.5	646.3	525.1	477.7	460.1
20°	1851.0	1838.7	1807.1	1633.2	1327.7	883.4	537.4	410.9	381.1	372.3	374.1
22.5°	1958.1	1919.5	1859.8	1589.3	1113.4	588.3	386.4	367.0	361.8	354.7	356.5
25°	2051.2	2016.1	1891.4	1513.8	793.8	389.9	358.3	347.7	338.9	330.2	328.4
27.5°	2133.7	2089.8	1924.8	1359.3	497.0	335.4	331.9	319.6	302.1	288.0	282.7
30°	2214.5	2163.6	1933.5	1069.5	335.4	303.8	295.0	275.7	252.9	233.6	230.1
32.5°	2349.8	2288.3	1921.2	763.9	289.8	270.4	251.1	228.3	194.9	179.1	175.6
35°	2560.5	2467.4	1905.4	449.6	259.9	238.8	209.0	179.1	154.5	138.7	135.2
37.5°	2802.8	2641.3	1859.8	300.3	238.8	210.7	172.1	142.2	121.2	108.9	105.4
40°	3162.9	2895.9	1684.2	245.9	212.5	179.1	138.7	112.4	96.6	87.8	84.3
42.5°	3559.8	3187.4	1413.7	221.3	187.9	152.8	110.6	91.3	79.0	70.2	70.2
45°	4035.7	3491.3	1090.6	202.0	166.8	126.4	91.3	73.8	63.2	56.2	52.7
47.5°	4566.0	3767.0	735.8	182.6	140.5	103.6	75.5	56.2	45.7	40.4	40.4
50°	5040.2	4011.1	468.9	159.8	122.9	86.1	61.5	45.7	36.9	29.9	28.1
52.5°	5470.5	4197.2	323.1	140.5	105.4	70.2	50.9	36.9	28.1	22.8	22.8
55°	5911.3	4292.1	238.8	121.2	91.3	59.7	42.1	33.4	24.6	19.3	17.6
57.5°	6273.0	4332.5	182.6	105.4	77.3	47.4	36.9	28.1	21.1	15.8	14.0
60°	6582.1	4313.1	142.2	87.8	61.5	40.4	31.6	22.8	17.6	12.3	10.5
62.5°	6763.0	4197.2	112.4	75.5	49.2	35.1	26.3	19.3	12.3	8.8	7.0
65°	6766.5	3951.4	87.8	56.2	36.9	29.9	22.8	15.8	8.8	3.5	1.8
67.5°	6281.8	3419.3	70.2	43.9	29.9	22.8	17.6	12.3	3.5	0.0	0.0
70°	4913.8	2586.8	58.0	35.1	24.6	19.3	12.3	7.0	1.8	0.0	0.0
72.5°	3131.2	1548.9	47.4	28.1	21.1	14.0	8.8	5.3	0.0	0.0	0.0
75°	1310.1	477.7	36.9	24.6	15.8	10.5	7.0	1.8	0.0	0.0	0.0
77.5°	337.2	151.0	29.9	21.1	15.8	8.8	5.3	1.8	0.0	0.0	0.0
80°	100.1	56.2	24.6	17.6	12.3	7.0	3.5	1.8	0.0	0.0	0.0
82.5°	45.7	33.4	21.1	15.8	10.5	7.0	3.5	0.0	0.0	0.0	0.0
85°	17.6	10.5	10.5	8.8	8.8	5.3	1.8	0.0	0.0	0.0	0.0
87.5°	7.0	3.5	3.5	3.5	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)