

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: P482409

Luminaire Tested: **IFLD-S-SA3C-735-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482409
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-735-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

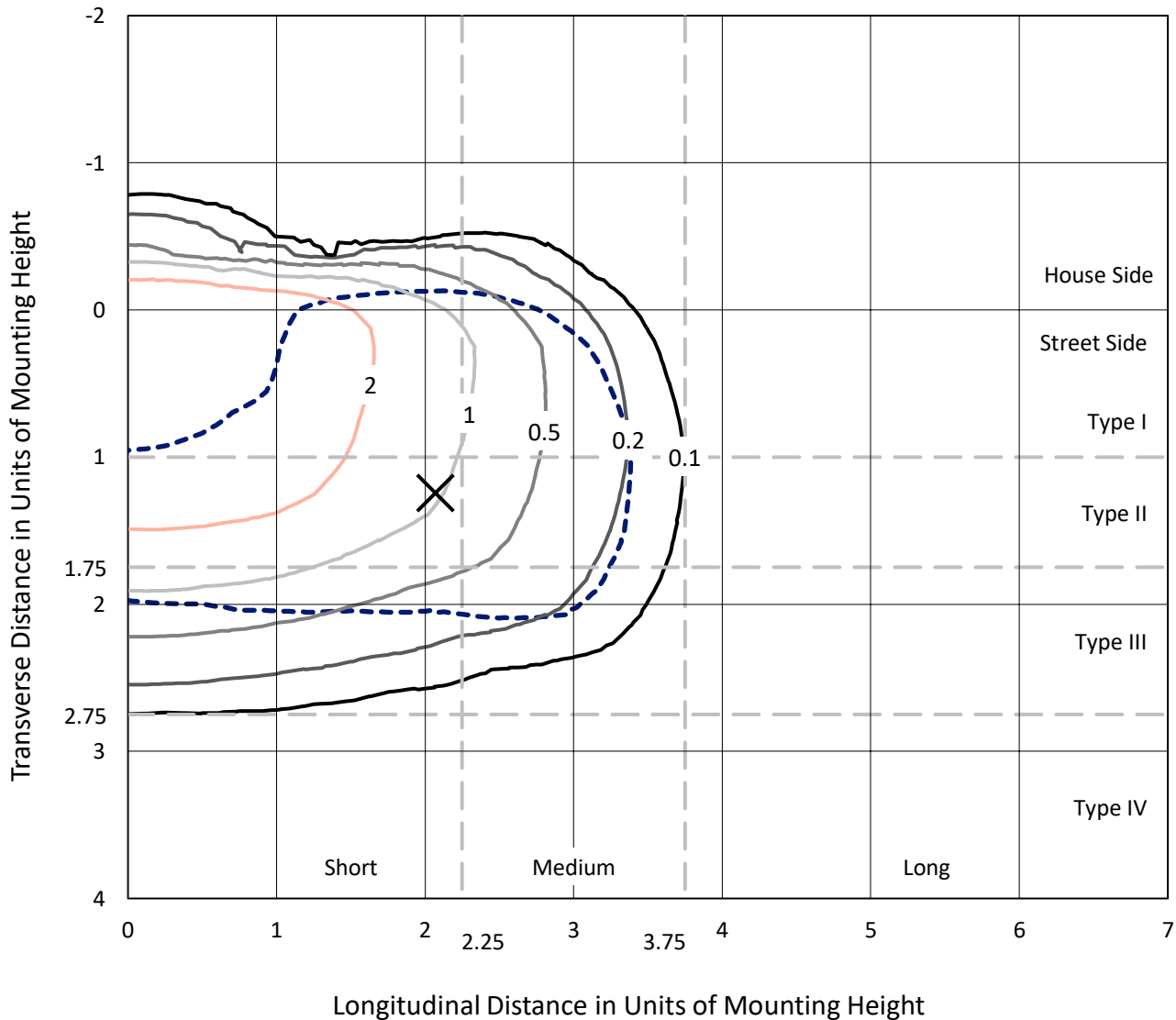
Lumens per Lamp: N/A
Luminaire Lumens: 15502.2 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (A_{in}): 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

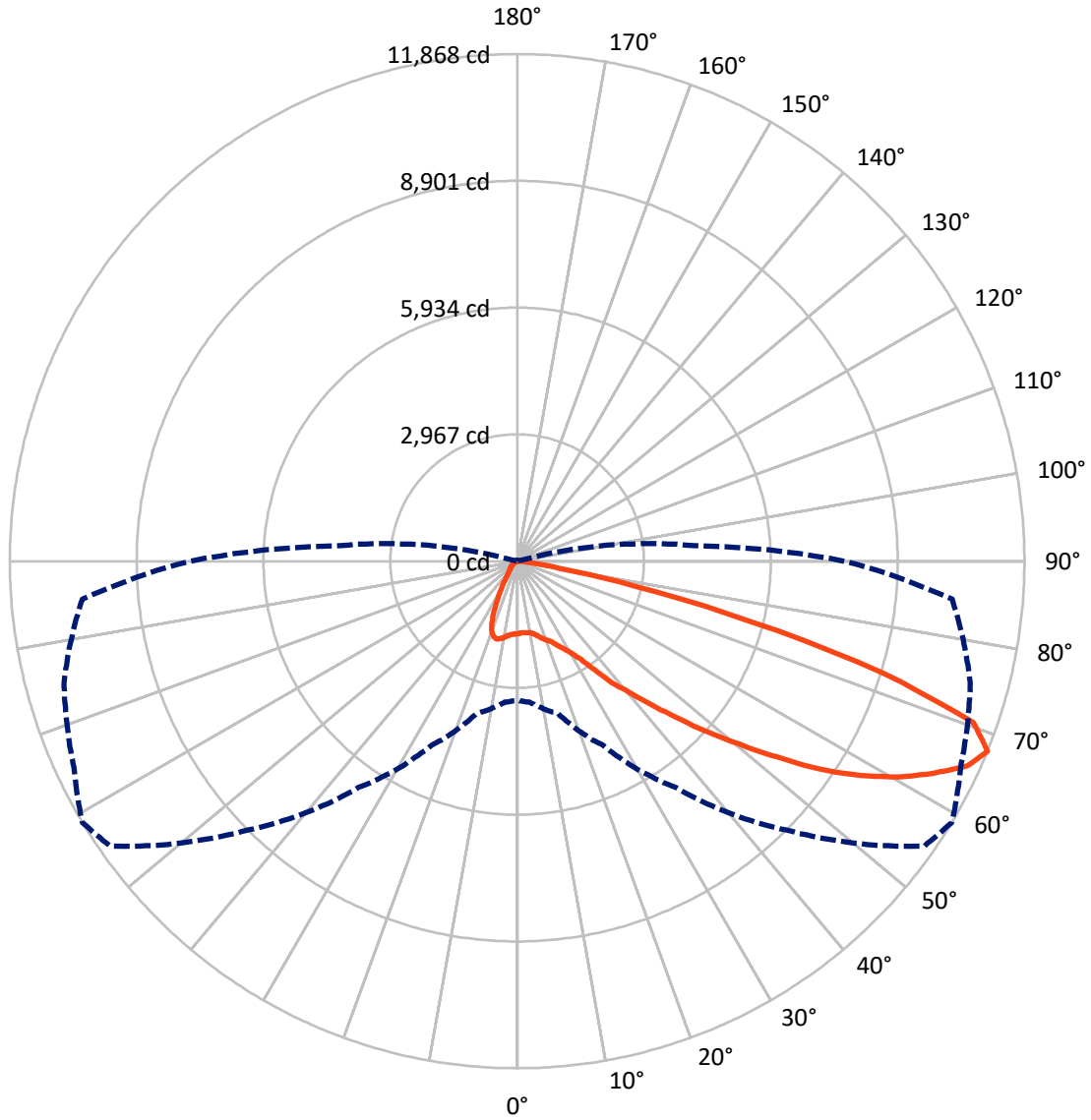
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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
House Side	Lumens	1821.0	0.0	1821.0
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	13681.2	0.0	13681.2
	% Fixture	88.3	0.0	88.3
Total	Lumens	15502.2	0.0	15502.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.5	1.0
10°-20°	466.5	3.0
20°-30°	815.4	5.3
30°-40°	1435.6	9.3
40°-50°	2537.7	16.4
50°-60°	4018.1	25.9
60°-70°	4457.2	28.8
70°-80°	1546.5	10.0
80°-90°	63.7	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°	15502.2	100.0
0°-180°	15502.2	100.0

Coefficient of Utilization

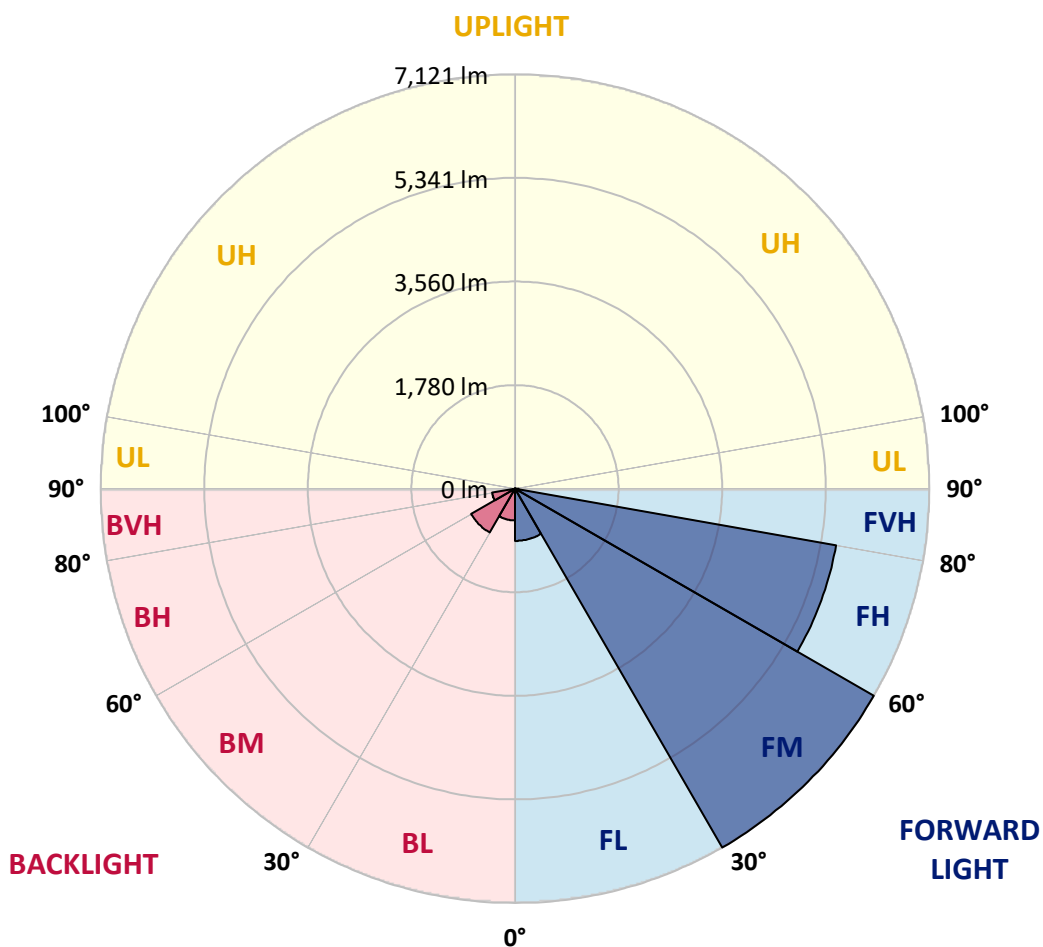


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	897.7	5.8			
FM (30°-60°)	7120.7	45.9			
FH (60°-80°)	5603.2	36.1			G3/7500
FVH (80°-90°)	59.6	0.4			G1/100
BL (0°-30°)	545.8	3.5	B2/1000		
BM (30°-60°)	870.6	5.6	B1/1000		
BH (60°-80°)	400.5	2.6	B1/500		G1/500
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1700.3	1700.3	1700.3	1700.3	1700.3	1700.3	1700.3	1700.3	1700.3	1700.3	1700.3
2.5°	1651.1	1627.5	1648.9	1651.1	1653.2	1672.5	1693.9	1678.9	1676.8	1693.9	1708.9
5°	1584.7	1574.0	1599.7	1612.5	1633.9	1651.1	1685.3	1687.5	1689.6	1708.9	1734.6
7.5°	1556.8	1531.1	1561.1	1576.1	1591.1	1631.8	1672.5	1693.9	1723.9	1747.4	1773.1
10°	1501.2	1520.4	1529.0	1554.7	1597.5	1644.6	1693.9	1704.6	1771.0	1790.3	1852.4
12.5°	1520.4	1533.3	1550.4	1556.8	1603.9	1674.6	1741.0	1745.3	1813.8	1897.3	1929.4
15°	1569.7	1561.1	1567.5	1576.1	1631.8	1689.6	1796.7	1816.0	1880.2	1974.4	2053.7
17.5°	1674.6	1659.6	1648.9	1646.8	1659.6	1713.2	1839.5	1897.3	1957.3	2085.8	2126.5
20°	1938.0	1925.2	1882.3	1771.0	1732.4	1753.9	1890.9	1972.3	2055.8	2199.3	2265.7
22.5°	2338.5	2351.3	2250.7	2094.3	1933.7	1850.2	1972.3	2042.9	2175.7	2357.7	2417.7
25°	2811.7	2786.0	2664.0	2481.9	2229.3	2032.2	2102.9	2182.1	2344.9	2494.8	2518.3
27.5°	3182.2	3152.2	3058.0	2837.4	2619.0	2299.9	2274.2	2323.5	2516.2	2651.1	2625.4
30°	3548.4	3559.1	3494.9	3233.6	2963.8	2627.6	2464.8	2486.2	2634.0	2807.4	2749.6
32.5°	4015.2	3989.5	3953.1	3724.0	3404.9	3045.1	2766.8	2732.5	2796.7	3025.9	2957.3
35°	4449.9	4435.0	4385.7	4154.4	3876.0	3484.1	3212.2	3135.1	3120.1	3374.9	3255.0
37.5°	4829.0	4803.3	4728.3	4580.6	4310.7	3981.0	3683.3	3614.8	3612.6	3788.2	3557.0
40°	5148.1	5167.3	5158.8	4996.0	4848.3	4584.9	4128.7	4019.5	4010.9	4105.2	3970.3
42.5°	5561.4	5606.3	5582.8	5550.6	5372.9	5270.1	4754.0	4587.0	4512.0	4704.8	4582.7
45°	6186.7	6203.8	6218.8	6139.5	5961.8	5983.2	5400.7	5201.6	5182.3	5469.3	5195.2
47.5°	6771.3	6726.3	6831.2	6835.5	6827.0	6728.4	6098.9	5951.1	5976.8	6195.2	5912.6
50°	6916.9	7032.5	7321.6	7375.2	7514.4	7604.3	6874.1	6726.3	6769.1	7017.5	6694.2
52.5°	7030.4	7206.0	7495.1	7887.0	8261.7	8475.9	7741.4	7621.4	7619.3	7771.3	7325.9
55°	7229.5	7336.6	7587.2	8126.8	8839.9	9191.1	8786.4	8593.7	8420.2	8527.3	7981.2
57.5°	7210.3	7251.0	7640.7	8306.7	9298.2	9936.3	9645.1	9460.9	9238.2	9176.1	8735.0
60°	6871.9	6968.3	7405.1	8184.6	9580.9	10516.7	10446.0	10257.6	9874.2	9728.6	9313.2
62.5°	6201.6	6330.1	6672.8	7756.3	9169.7	10546.7	10998.5	10927.8	10499.5	10238.3	10067.0
65°	5026.0	5086.0	5480.0	6668.5	8240.3	10086.2	11651.6	11563.8	11169.8	10780.1	10454.6
67.5°	3255.0	3312.8	3691.9	4760.5	6471.5	8897.7	11626.0	11867.9	11441.8	10972.8	10212.6
70°	1537.6	1522.6	1875.9	2644.7	4145.9	6794.8	10840.0	11317.6	10955.7	9947.1	8482.3
72.5°	469.0	509.7	779.5	1171.4	2128.6	4237.9	8497.3	8944.9	8831.4	7946.9	5662.0
75°	207.7	224.9	306.2	479.7	863.0	1738.9	5248.7	5647.0	5597.8	4687.6	2584.7
77.5°	132.8	145.6	192.7	274.1	391.9	552.5	2417.7	2805.3	2719.6	1646.8	676.7
80°	94.2	100.6	137.1	188.4	246.3	227.0	833.0	989.4	948.7	447.6	182.0
82.5°	51.4	55.7	100.6	139.2	164.9	115.6	233.4	291.2	304.1	199.2	87.8
85°	19.3	23.6	62.1	98.5	85.7	53.5	68.5	83.5	109.2	109.2	40.7
87.5°	0.0	2.1	25.7	42.8	21.4	15.0	19.3	23.6	30.0	51.4	15.0
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°	1700.3	1700.3	1700.3	1700.3	1700.3	1700.3	1700.3	1700.3	1700.3	1700.3	1700.3
2.5°	1719.6	1704.6	1711.0	1721.7	1698.2	1711.0	1685.3	1704.6	1711.0	1685.3	1698.2
5°	1741.0	1756.0	1747.4	1730.3	1715.3	1719.6	1713.2	1698.2	1711.0	1715.3	1706.7
7.5°	1803.1	1786.0	1790.3	1771.0	1741.0	1738.9	1698.2	1687.5	1691.7	1696.0	1681.0
10°	1860.9	1871.6	1850.2	1835.2	1786.0	1753.9	1698.2	1638.2	1631.8	1606.1	1627.5
12.5°	1963.7	1938.0	1929.4	1880.2	1830.9	1723.9	1603.9	1511.9	1434.8	1406.9	1379.1
15°	2049.4	2045.1	2030.1	1955.1	1841.7	1646.8	1419.8	1205.6	1057.9	965.8	952.9
17.5°	2167.2	2147.9	2120.0	2002.3	1762.4	1445.5	1057.9	788.1	640.3	582.5	561.1
20°	2257.1	2242.1	2203.6	1991.6	1618.9	1077.2	655.3	501.1	464.7	454.0	456.1
22.5°	2387.7	2340.6	2267.8	1938.0	1357.7	717.4	471.1	447.6	441.1	432.6	434.7
25°	2501.2	2458.4	2306.3	1845.9	967.9	475.4	436.9	424.0	413.3	402.6	400.5
27.5°	2601.9	2548.3	2347.0	1657.5	606.0	409.0	404.7	389.7	368.3	351.2	344.8
30°	2700.4	2638.3	2357.7	1304.1	409.0	370.5	359.8	336.2	308.4	284.8	280.5
32.5°	2865.3	2790.3	2342.8	931.5	353.3	329.8	306.2	278.4	237.7	218.4	214.1
35°	3122.2	3008.7	2323.5	548.2	316.9	291.2	254.8	218.4	188.4	169.2	164.9
37.5°	3417.8	3220.7	2267.8	366.2	291.2	257.0	209.9	173.5	147.8	132.8	128.5
40°	3856.8	3531.3	2053.7	299.8	259.1	218.4	169.2	137.1	117.8	107.1	102.8
42.5°	4340.7	3886.7	1723.9	269.8	229.1	186.3	134.9	111.4	96.4	85.7	85.7
45°	4921.1	4257.2	1329.8	246.3	203.4	154.2	111.4	89.9	77.1	68.5	64.2
47.5°	5567.8	4593.4	897.3	222.7	171.3	126.3	92.1	68.5	55.7	49.3	49.3
50°	6146.0	4891.1	571.8	194.9	149.9	104.9	75.0	55.7	45.0	36.4	34.3
52.5°	6670.6	5118.1	394.0	171.3	128.5	85.7	62.1	45.0	34.3	27.8	27.8
55°	7208.1	5233.7	291.2	147.8	111.4	72.8	51.4	40.7	30.0	23.6	21.4
57.5°	7649.3	5283.0	222.7	128.5	94.2	57.8	45.0	34.3	25.7	19.3	17.1
60°	8026.2	5259.4	173.5	107.1	75.0	49.3	38.5	27.8	21.4	15.0	12.8
62.5°	8246.7	5118.1	137.1	92.1	60.0	42.8	32.1	23.6	15.0	10.7	8.6
65°	8251.0	4818.3	107.1	68.5	45.0	36.4	27.8	19.3	10.7	4.3	2.1
67.5°	7660.0	4169.4	85.7	53.5	36.4	27.8	21.4	15.0	4.3	0.0	0.0
70°	5991.8	3154.4	70.7	42.8	30.0	23.6	15.0	8.6	2.1	0.0	0.0
72.5°	3818.2	1888.8	57.8	34.3	25.7	17.1	10.7	6.4	0.0	0.0	0.0
75°	1597.5	582.5	45.0	30.0	19.3	12.8	8.6	2.1	0.0	0.0	0.0
77.5°	411.2	184.2	36.4	25.7	19.3	10.7	6.4	2.1	0.0	0.0	0.0
80°	122.1	68.5	30.0	21.4	15.0	8.6	4.3	2.1	0.0	0.0	0.0
82.5°	55.7	40.7	25.7	19.3	12.8	8.6	4.3	0.0	0.0	0.0	0.0
85°	21.4	12.8	12.8	10.7	10.7	6.4	2.1	0.0	0.0	0.0	0.0
87.5°	8.6	4.3	4.3	4.3	2.1	2.1	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)