

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: P482371

Luminaire Tested: **IFLD-S-SA3D-730-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482371
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

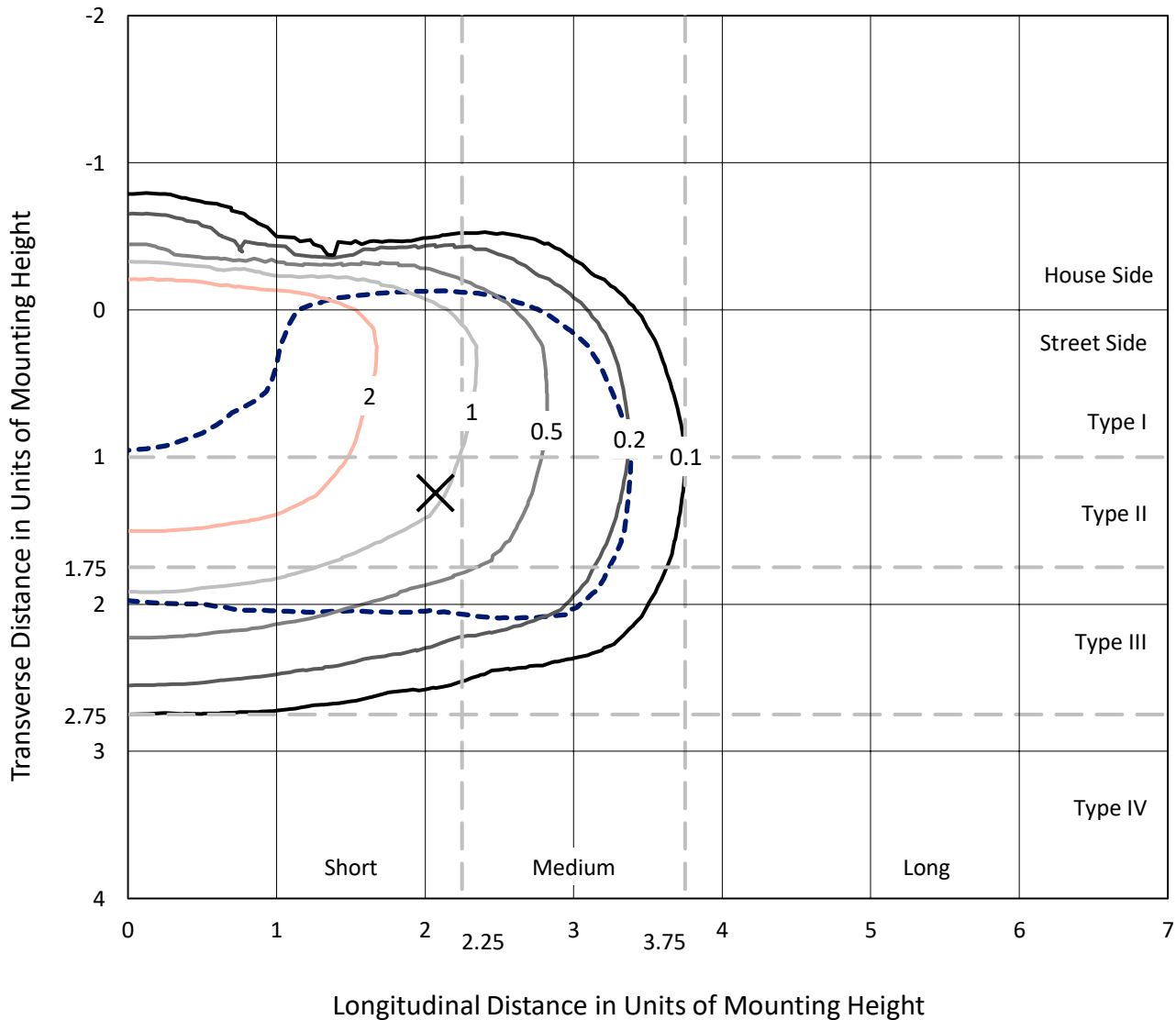
Lumens per Lamp: N/A
Luminaire Lumens: 15748.3 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
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

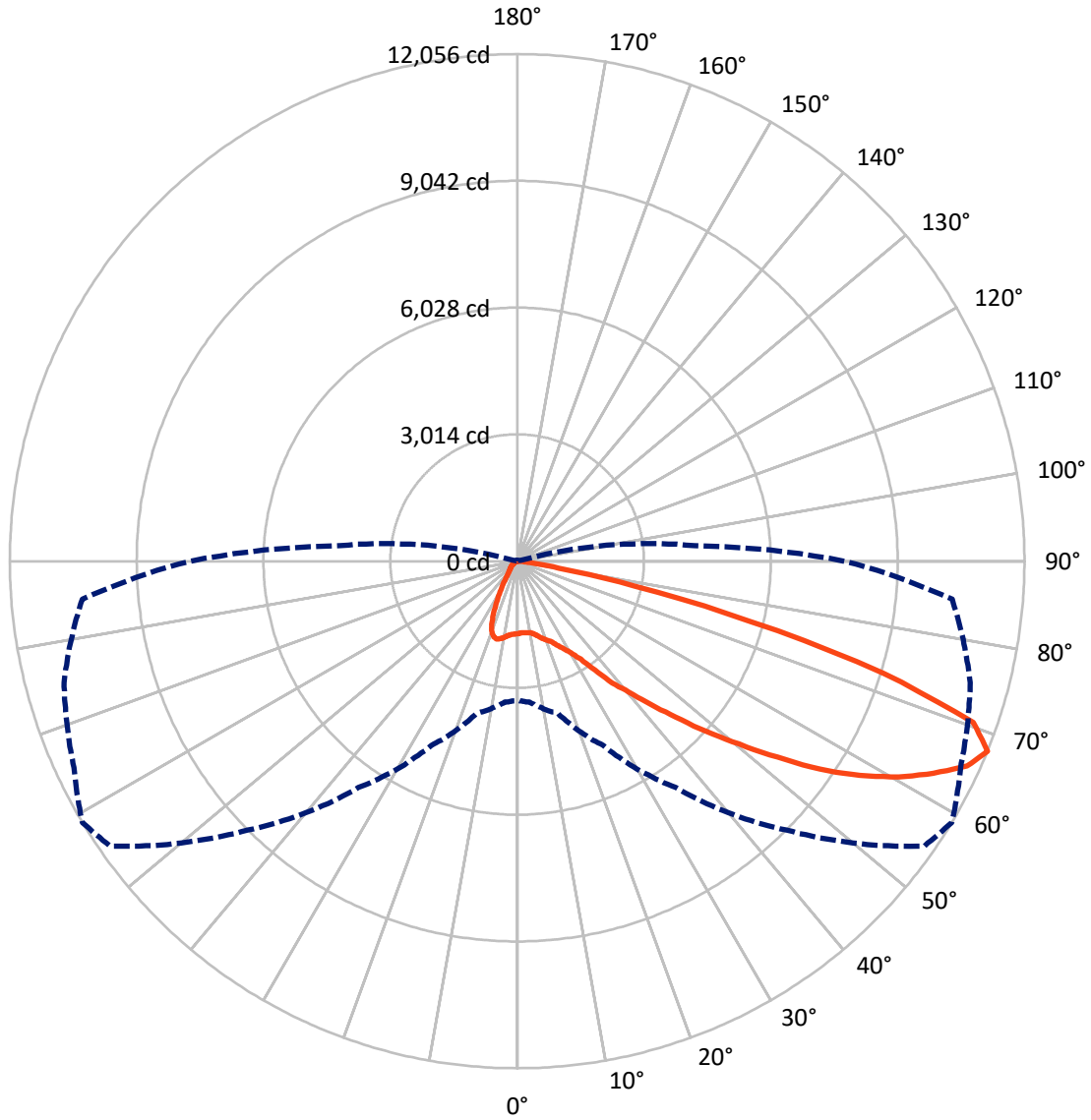
✕ Max cd
 - - - 1/2 Max cd



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	1849.9	0.0	1849.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	13898.4	0.0	13898.4
	% Fixture	88.3	0.0	88.3
Total	Lumens	15748.3	0.0	15748.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	1.0
10°-20°	473.9	3.0
20°-30°	828.3	5.3
30°-40°	1458.4	9.3
40°-50°	2578.0	16.4
50°-60°	4081.8	25.9
60°-70°	4527.9	28.8
70°-80°	1571.1	10.0
80°-90°	64.7	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°	15748.3	100.0
0°-180°	15748.3	100.0

Coefficient of Utilization

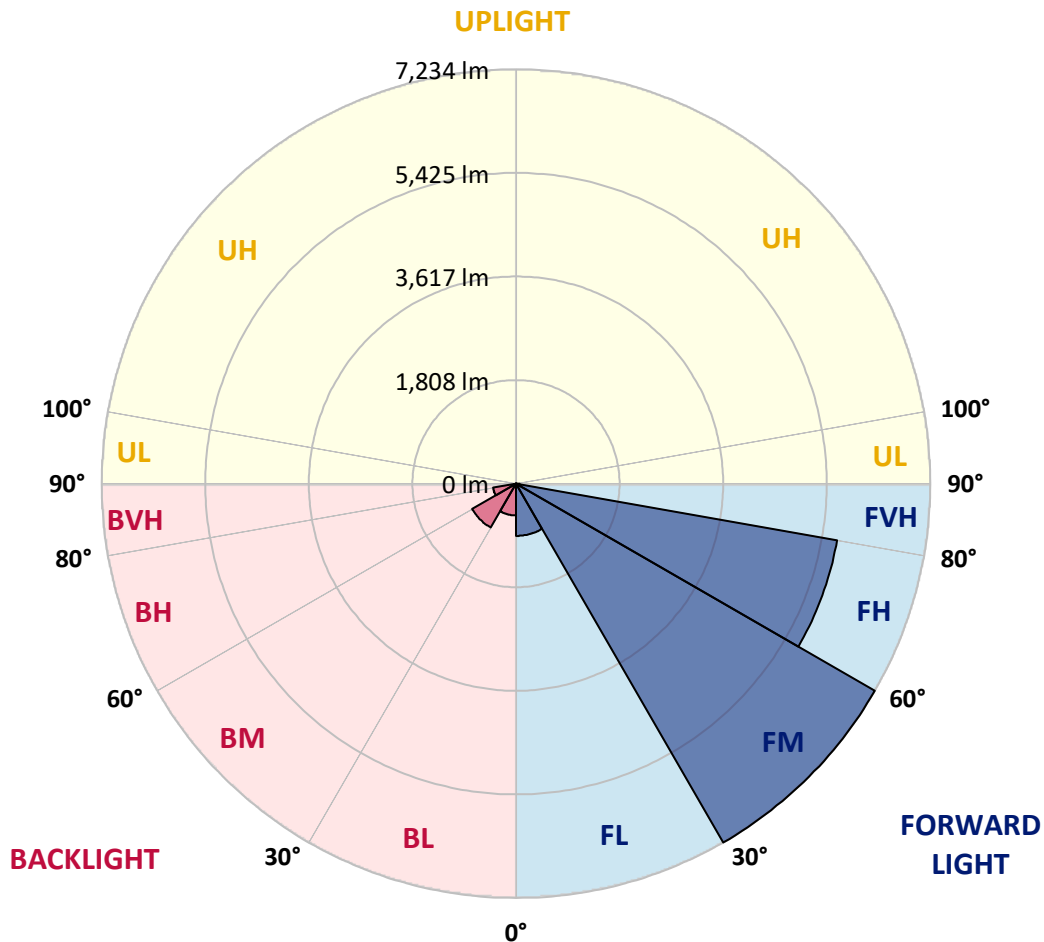


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	911.9	5.8			
FM (30°-60°)	7233.8	45.9			
FH (60°-80°)	5692.2	36.1			G3/7500
FVH (80°-90°)	60.5	0.4			G1/100
BL (0°-30°)	554.4	3.5	B2/1000		
BM (30°-60°)	884.5	5.6	B1/1000		
BH (60°-80°)	406.8	2.6	B1/500		G1/500
BVH (80°-90°)	4.2	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°	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3
2.5°	1677.3	1653.3	1675.1	1677.3	1679.4	1699.0	1720.8	1705.5	1703.4	1720.8	1736.0
5°	1609.8	1598.9	1625.1	1638.1	1659.9	1677.3	1712.1	1714.2	1716.4	1736.0	1762.1
7.5°	1581.5	1555.4	1585.9	1601.1	1616.4	1657.7	1699.0	1720.8	1751.2	1775.2	1801.3
10°	1525.0	1544.6	1553.3	1579.4	1622.9	1670.7	1720.8	1731.7	1799.1	1818.7	1881.8
12.5°	1544.6	1557.6	1575.0	1581.5	1629.4	1701.2	1768.6	1773.0	1842.6	1927.4	1960.1
15°	1594.6	1585.9	1592.4	1601.1	1657.7	1716.4	1825.2	1844.8	1910.0	2005.8	2086.2
17.5°	1701.2	1686.0	1675.1	1672.9	1686.0	1740.4	1868.7	1927.4	1988.4	2118.9	2160.2
20°	1968.8	1955.7	1912.2	1799.1	1759.9	1781.7	1920.9	2003.6	2088.4	2234.2	2301.6
22.5°	2375.6	2388.6	2286.4	2127.6	1964.4	1879.6	2003.6	2075.4	2210.2	2395.2	2456.1
25°	2856.4	2830.2	2706.2	2521.3	2264.6	2064.5	2136.3	2216.8	2382.1	2534.4	2558.3
27.5°	3232.7	3202.2	3106.5	2882.5	2660.6	2336.4	2310.3	2360.4	2556.1	2693.2	2667.1
30°	3604.7	3615.6	3550.3	3284.9	3010.8	2669.3	2503.9	2525.7	2675.8	2852.0	2793.3
32.5°	4079.0	4052.8	4015.9	3783.1	3459.0	3093.5	2810.7	2775.9	2841.1	3073.9	3004.3
35°	4520.6	4505.3	4455.3	4220.4	3937.5	3539.4	3263.2	3184.8	3169.6	3428.5	3306.7
37.5°	4905.6	4879.5	4803.4	4653.3	4379.2	4044.1	3741.8	3672.1	3670.0	3848.4	3613.4
40°	5229.8	5249.3	5240.6	5075.3	4925.2	4657.6	4194.3	4083.3	4074.6	4170.3	4033.3
42.5°	5649.6	5695.3	5671.4	5638.7	5458.2	5353.8	4829.5	4659.8	4583.7	4779.4	4655.4
45°	6284.8	6302.3	6317.5	6237.0	6056.4	6078.2	5486.5	5284.1	5264.6	5556.1	5277.6
47.5°	6878.7	6833.1	6939.7	6944.0	6935.3	6835.2	6195.7	6045.6	6071.7	6293.6	6006.4
50°	7026.7	7144.1	7437.8	7492.2	7633.6	7725.0	6983.2	6833.1	6876.6	7128.9	6800.4
52.5°	7142.0	7320.4	7614.0	8012.1	8392.9	8610.4	7864.2	7742.4	7740.2	7894.7	7442.2
55°	7344.3	7453.1	7707.6	8255.8	8980.2	9337.0	8925.8	8730.0	8553.8	8662.6	8107.9
57.5°	7324.7	7366.0	7762.0	8438.5	9445.8	10094.0	9798.2	9611.1	9384.9	9321.8	8873.6
60°	6981.0	7078.9	7522.7	8314.5	9732.9	10683.6	10611.8	10420.4	10031.0	9883.0	9461.0
62.5°	6300.1	6430.6	6778.7	7879.4	9315.2	10714.0	11173.1	11101.3	10666.2	10400.8	10226.7
65°	5105.8	5166.7	5567.0	6774.3	8371.1	10246.3	11836.6	11747.4	11347.1	10951.2	10620.5
67.5°	3306.7	3365.4	3750.5	4836.0	6574.2	9039.0	11810.5	12056.3	11623.4	11147.0	10374.7
70°	1562.0	1546.7	1905.7	2686.7	4211.7	6902.7	11012.1	11497.2	11129.6	10104.9	8616.9
72.5°	476.4	517.8	791.9	1190.0	2162.4	4305.2	8632.1	9086.8	8971.5	8073.1	5751.9
75°	211.0	228.4	311.1	487.3	876.7	1766.5	5332.0	5736.6	5686.6	4762.0	2625.8
77.5°	134.9	147.9	195.8	278.5	398.1	561.3	2456.1	2849.8	2762.8	1672.9	687.4
80°	95.7	102.2	139.2	191.4	250.2	230.6	846.2	1005.1	963.7	454.7	184.9
82.5°	52.2	56.6	102.2	141.4	167.5	117.5	237.1	295.9	308.9	202.3	89.2
85°	19.6	23.9	63.1	100.1	87.0	54.4	69.6	84.8	110.9	110.9	41.3
87.5°	0.0	2.2	26.1	43.5	21.8	15.2	19.6	23.9	30.5	52.2	15.2
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°	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3	1727.3
2.5°	1746.9	1731.7	1738.2	1749.1	1725.1	1738.2	1712.1	1731.7	1738.2	1712.1	1725.1
5°	1768.6	1783.9	1775.2	1757.8	1742.5	1746.9	1740.4	1725.1	1738.2	1742.5	1733.8
7.5°	1831.7	1814.3	1818.7	1799.1	1768.6	1766.5	1725.1	1714.2	1718.6	1722.9	1707.7
10°	1890.5	1901.3	1879.6	1864.4	1814.3	1781.7	1725.1	1664.2	1657.7	1631.6	1653.3
12.5°	1994.9	1968.8	1960.1	1910.0	1860.0	1751.2	1629.4	1535.9	1457.5	1429.3	1401.0
15°	2081.9	2077.5	2062.3	1986.2	1870.9	1672.9	1442.3	1224.8	1074.7	981.1	968.1
17.5°	2201.5	2182.0	2153.7	2034.0	1790.4	1468.4	1074.7	800.6	650.5	591.7	570.0
20°	2292.9	2277.7	2238.5	2023.2	1644.6	1094.2	665.7	509.1	472.1	461.2	463.4
22.5°	2425.6	2377.8	2303.8	1968.8	1379.2	728.8	478.6	454.7	448.1	439.4	441.6
25°	2540.9	2497.4	2342.9	1875.2	983.3	482.9	443.8	430.7	419.9	409.0	406.8
27.5°	2643.2	2588.8	2384.3	1683.8	615.6	415.5	411.2	395.9	374.2	356.8	350.2
30°	2743.2	2680.1	2395.2	1324.8	415.5	376.4	365.5	341.5	313.3	289.3	285.0
32.5°	2910.7	2834.6	2379.9	946.3	358.9	335.0	311.1	282.8	241.5	221.9	217.5
35°	3171.8	3056.5	2360.4	556.9	322.0	295.9	258.9	221.9	191.4	171.9	167.5
37.5°	3472.0	3271.9	2303.8	372.0	295.9	261.1	213.2	176.2	150.1	134.9	130.5
40°	3918.0	3587.3	2086.2	304.6	263.2	221.9	171.9	139.2	119.6	108.8	104.4
42.5°	4409.6	3948.4	1751.2	274.1	232.8	189.3	137.1	113.1	97.9	87.0	87.0
45°	4999.2	4324.8	1350.9	250.2	206.7	156.6	113.1	91.4	78.3	69.6	65.3
47.5°	5656.1	4666.3	911.5	226.2	174.0	128.4	93.5	69.6	56.6	50.0	50.0
50°	6243.5	4968.7	580.8	198.0	152.3	106.6	76.1	56.6	45.7	37.0	34.8
52.5°	6776.5	5199.3	400.3	174.0	130.5	87.0	63.1	45.7	34.8	28.3	28.3
55°	7322.5	5316.8	295.9	150.1	113.1	74.0	52.2	41.3	30.5	23.9	21.8
57.5°	7770.7	5366.8	226.2	130.5	95.7	58.7	45.7	34.8	26.1	19.6	17.4
60°	8153.6	5342.9	176.2	108.8	76.1	50.0	39.2	28.3	21.8	15.2	13.1
62.5°	8377.6	5199.3	139.2	93.5	60.9	43.5	32.6	23.9	15.2	10.9	8.7
65°	8382.0	4894.7	108.8	69.6	45.7	37.0	28.3	19.6	10.9	4.4	2.2
67.5°	7781.6	4235.6	87.0	54.4	37.0	28.3	21.8	15.2	4.4	0.0	0.0
70°	6086.9	3204.4	71.8	43.5	30.5	23.9	15.2	8.7	2.2	0.0	0.0
72.5°	3878.8	1918.7	58.7	34.8	26.1	17.4	10.9	6.5	0.0	0.0	0.0
75°	1622.9	591.7	45.7	30.5	19.6	13.1	8.7	2.2	0.0	0.0	0.0
77.5°	417.7	187.1	37.0	26.1	19.6	10.9	6.5	2.2	0.0	0.0	0.0
80°	124.0	69.6	30.5	21.8	15.2	8.7	4.4	2.2	0.0	0.0	0.0
82.5°	56.6	41.3	26.1	19.6	13.1	8.7	4.4	0.0	0.0	0.0	0.0
85°	21.8	13.1	13.1	10.9	10.9	6.5	2.2	0.0	0.0	0.0	0.0
87.5°	8.7	4.4	4.4	4.4	2.2	2.2	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)