

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: P482487

Luminaire Tested: **IFLD-S-SA3C-750-U-T3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482487
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-750-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

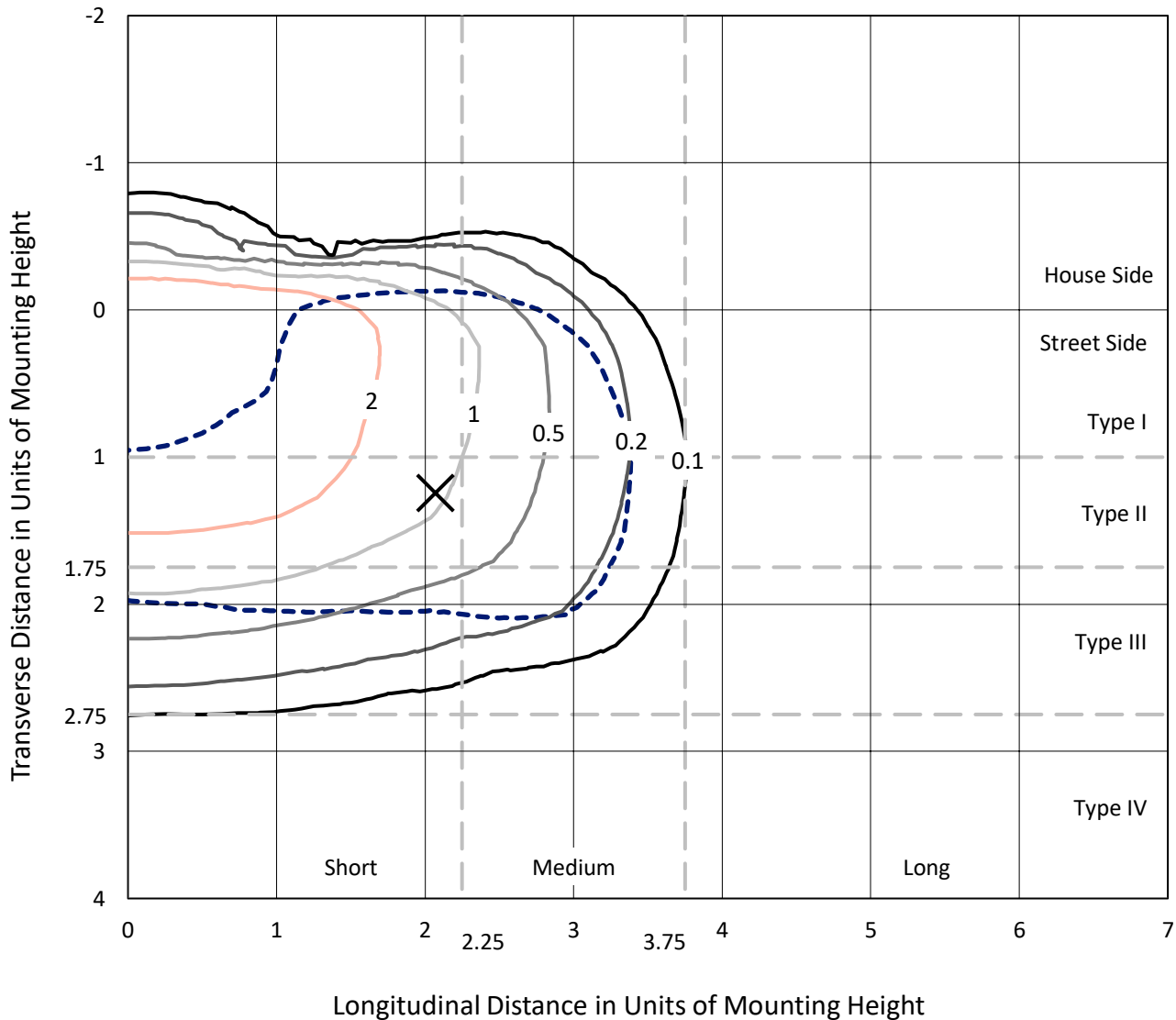
Lumens per Lamp: N/A
Luminaire Lumens: 16077.5 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

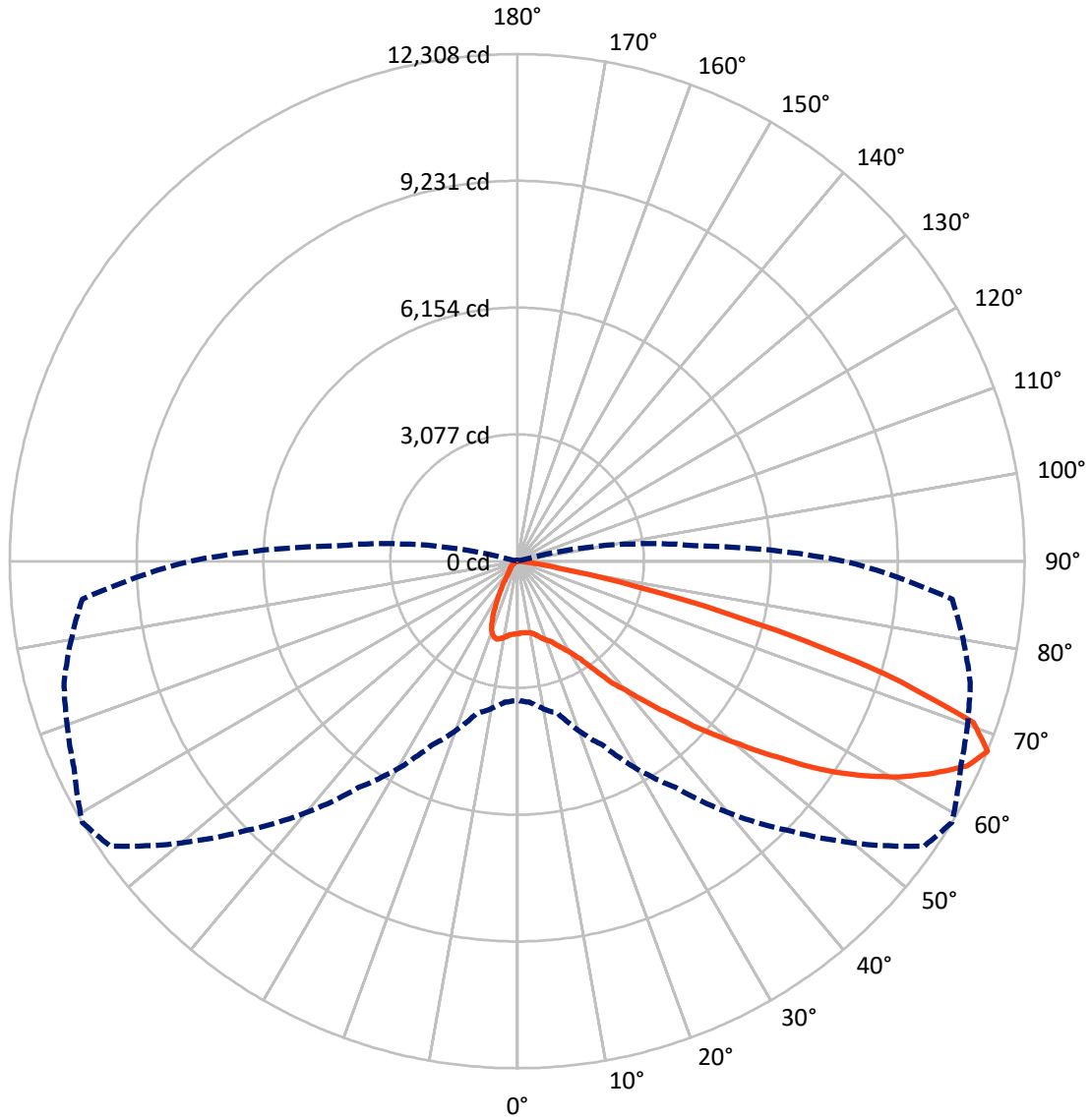
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	1888.6	0.0	1888.6
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	14188.9	0.0	14188.9
	% Fixture	88.3	0.0	88.3
Total	Lumens	16077.5	0.0	16077.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	1.0
10°-20°	483.9	3.0
20°-30°	845.7	5.3
30°-40°	1488.9	9.3
40°-50°	2631.9	16.4
50°-60°	4167.2	25.9
60°-70°	4622.5	28.8
70°-80°	1603.9	10.0
80°-90°	66.0	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°	16077.5	100.0
0°-180°	16077.5	100.0

Coefficient of Utilization

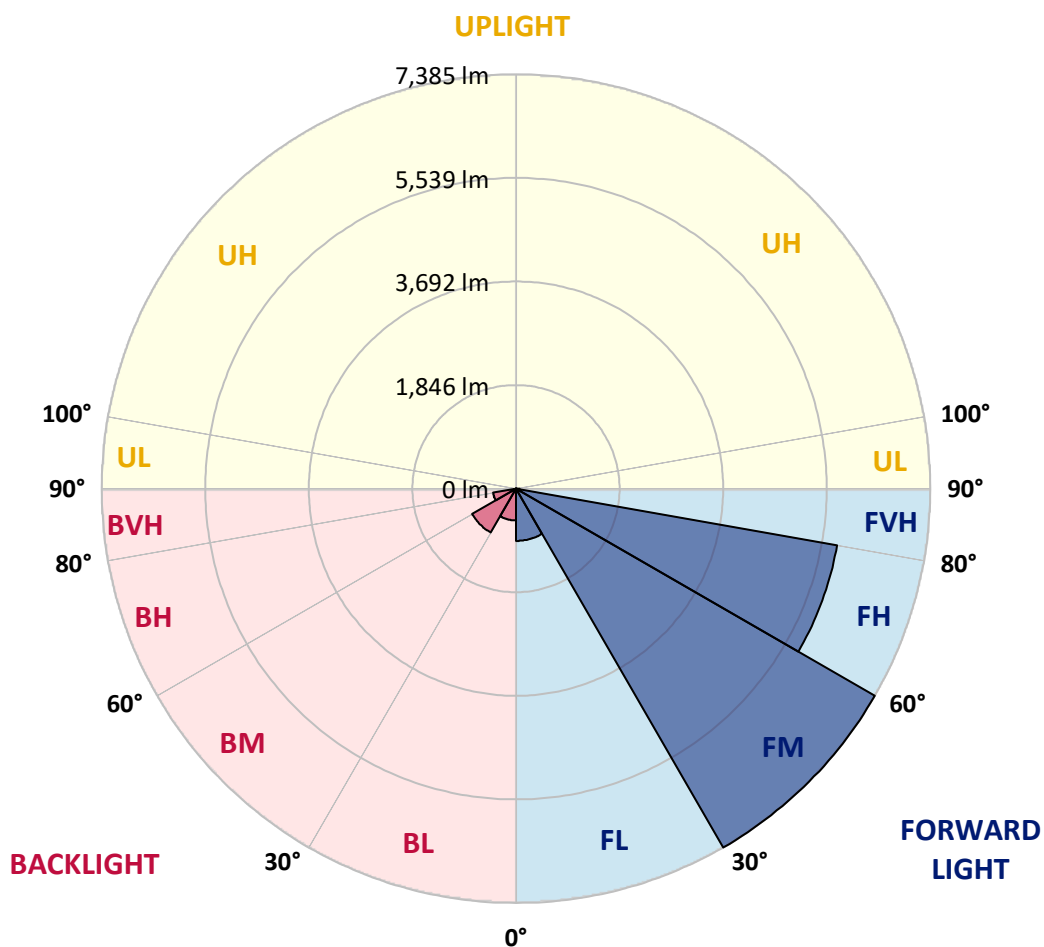


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	931.0	5.8			
FM (30°-60°)	7385.0	45.9			
FH (60°-80°)	5811.1	36.1			G3/7500
FVH (80°-90°)	61.8	0.4			G1/100
BL (0°-30°)	566.0	3.5	B2/1000		
BM (30°-60°)	902.9	5.6	B1/1000		
BH (60°-80°)	415.3	2.6	B1/500		G1/500
BVH (80°-90°)	4.3	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°	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4
2.5°	1712.3	1687.9	1710.1	1712.3	1714.5	1734.5	1756.7	1741.2	1739.0	1756.7	1772.3
5°	1643.5	1632.4	1659.0	1672.4	1694.6	1712.3	1747.9	1750.1	1752.3	1772.3	1798.9
7.5°	1614.6	1588.0	1619.1	1634.6	1650.1	1692.3	1734.5	1756.7	1787.8	1812.3	1838.9
10°	1556.9	1576.9	1585.7	1612.4	1656.8	1705.7	1756.7	1767.9	1836.7	1856.7	1921.1
12.5°	1576.9	1590.2	1607.9	1614.6	1663.5	1736.8	1805.6	1810.0	1881.1	1967.7	2001.0
15°	1627.9	1619.1	1625.7	1634.6	1692.3	1752.3	1863.4	1883.3	1950.0	2047.7	2129.9
17.5°	1736.8	1721.2	1710.1	1707.9	1721.2	1776.7	1907.8	1967.7	2029.9	2163.2	2205.4
20°	2009.9	1996.6	1952.2	1836.7	1796.7	1818.9	1961.1	2045.5	2132.1	2280.9	2349.7
22.5°	2425.2	2438.6	2334.2	2172.1	2005.5	1918.9	2045.5	2118.8	2256.5	2445.2	2507.4
25°	2916.1	2889.4	2762.8	2574.0	2312.0	2107.7	2180.9	2263.1	2431.9	2587.4	2611.8
27.5°	3300.3	3269.2	3171.5	2942.7	2716.2	2385.3	2358.6	2409.7	2609.6	2749.5	2722.8
30°	3680.1	3691.2	3624.5	3353.6	3073.8	2725.1	2556.3	2578.5	2731.7	2911.6	2851.7
32.5°	4164.2	4137.6	4099.8	3862.2	3531.3	3158.1	2869.4	2833.9	2900.5	3138.2	3067.1
35°	4615.1	4599.5	4548.4	4308.6	4019.9	3613.4	3331.4	3251.4	3235.9	3500.2	3375.8
37.5°	5008.2	4981.5	4903.8	4750.5	4470.7	4128.7	3820.0	3748.9	3746.7	3928.8	3688.9
40°	5339.1	5359.1	5350.2	5181.4	5028.2	4755.0	4281.9	4168.7	4159.8	4257.5	4117.6
42.5°	5767.7	5814.4	5789.9	5756.6	5572.3	5465.7	4930.4	4757.2	4679.5	4879.4	4752.8
45°	6416.2	6434.0	6449.6	6367.4	6183.0	6205.2	5601.2	5394.6	5374.6	5672.2	5388.0
47.5°	7022.5	6975.9	7084.7	7089.2	7080.3	6978.1	6325.2	6171.9	6198.6	6425.1	6132.0
50°	7173.6	7293.5	7593.3	7648.8	7793.2	7886.5	7129.2	6975.9	7020.3	7278.0	6942.6
52.5°	7291.3	7473.4	7773.2	8179.6	8568.3	8790.4	8028.6	7904.3	7902.0	8059.7	7597.8
55°	7497.8	7608.9	7868.7	8428.4	9168.0	9532.2	9112.4	8912.6	8732.7	8843.7	8277.4
57.5°	7477.8	7520.0	7924.2	8614.9	9643.2	10305.1	10003.0	9812.0	9581.0	9516.6	9059.1
60°	7126.9	7226.9	7679.9	8488.4	9936.4	10906.9	10833.6	10638.2	10240.7	10089.6	9658.8
62.5°	6431.8	6565.0	6920.4	8044.2	9510.0	10938.0	11406.6	11333.4	10889.2	10618.2	10440.5
65°	5212.5	5274.7	5683.3	6915.9	8546.1	10460.5	12084.0	11993.0	11584.3	11180.1	10842.5
67.5°	3375.8	3435.8	3828.9	4937.1	6711.6	9227.9	12057.4	12308.3	11866.4	11380.0	10591.6
70°	1594.6	1579.1	1945.5	2742.8	4299.7	7047.0	11242.3	11737.6	11362.2	10316.2	8797.1
72.5°	486.4	528.6	808.4	1214.8	2207.6	4395.2	8812.6	9276.8	9159.1	8241.8	5872.1
75°	215.4	233.2	317.6	497.5	895.0	1803.4	5443.5	5856.6	5805.5	4861.6	2680.6
77.5°	137.7	151.0	199.9	284.3	406.4	573.0	2507.4	2909.4	2820.6	1707.9	701.8
80°	97.7	104.4	142.1	195.4	255.4	235.4	863.9	1026.1	983.9	464.2	188.8
82.5°	53.3	57.7	104.4	144.4	171.0	119.9	242.1	302.0	315.4	206.5	91.1
85°	20.0	24.4	64.4	102.2	88.8	55.5	71.1	86.6	113.3	113.3	42.2
87.5°	0.0	2.2	26.7	44.4	22.2	15.5	20.0	24.4	31.1	53.3	15.5
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°	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4	1763.4
2.5°	1783.4	1767.9	1774.5	1785.6	1761.2	1774.5	1747.9	1767.9	1774.5	1747.9	1761.2
5°	1805.6	1821.2	1812.3	1794.5	1779.0	1783.4	1776.7	1761.2	1774.5	1779.0	1770.1
7.5°	1870.0	1852.2	1856.7	1836.7	1805.6	1803.4	1761.2	1750.1	1754.5	1759.0	1743.4
10°	1930.0	1941.1	1918.9	1903.3	1852.2	1818.9	1761.2	1699.0	1692.3	1665.7	1687.9
12.5°	2036.6	2009.9	2001.0	1950.0	1898.9	1787.8	1663.5	1568.0	1488.0	1459.1	1430.3
15°	2125.4	2121.0	2105.4	2027.7	1910.0	1707.9	1472.5	1250.4	1097.1	1001.6	988.3
17.5°	2247.6	2227.6	2198.7	2076.6	1827.8	1499.1	1097.1	817.3	664.1	604.1	581.9
20°	2340.8	2325.3	2285.3	2065.5	1679.0	1117.1	679.6	519.7	481.9	470.8	473.1
22.5°	2476.3	2427.5	2352.0	2009.9	1408.1	744.0	488.6	464.2	457.5	448.6	450.8
25°	2594.0	2549.6	2391.9	1914.4	1003.9	493.0	453.1	439.7	428.6	417.5	415.3
27.5°	2698.4	2642.9	2434.1	1719.0	628.5	424.2	419.8	404.2	382.0	364.2	357.6
30°	2800.6	2736.2	2445.2	1352.5	424.2	384.2	373.1	348.7	319.8	295.4	290.9
32.5°	2971.6	2893.9	2429.7	966.1	366.5	342.0	317.6	288.7	246.5	226.5	222.1
35°	3238.1	3120.4	2409.7	568.6	328.7	302.0	264.3	226.5	195.4	175.5	171.0
37.5°	3544.6	3340.3	2352.0	379.8	302.0	266.5	217.7	179.9	153.2	137.7	133.3
40°	3999.9	3662.3	2129.9	310.9	268.7	226.5	175.5	142.1	122.2	111.0	106.6
42.5°	4501.8	4031.0	1787.8	279.8	237.6	193.2	139.9	115.5	99.9	88.8	88.8
45°	5103.7	4415.2	1379.2	255.4	211.0	159.9	115.5	93.3	80.0	71.1	66.6
47.5°	5774.4	4763.9	930.6	231.0	177.7	131.0	95.5	71.1	57.7	51.1	51.1
50°	6374.0	5072.6	593.0	202.1	155.5	108.8	77.7	57.7	46.6	37.8	35.5
52.5°	6918.2	5308.0	408.6	177.7	133.3	88.8	64.4	46.6	35.5	28.9	28.9
55°	7475.6	5427.9	302.0	153.2	115.5	75.5	53.3	42.2	31.1	24.4	22.2
57.5°	7933.1	5479.0	231.0	133.3	97.7	60.0	46.6	35.5	26.7	20.0	17.8
60°	8324.0	5454.6	179.9	111.0	77.7	51.1	40.0	28.9	22.2	15.5	13.3
62.5°	8552.8	5308.0	142.1	95.5	62.2	44.4	33.3	24.4	15.5	11.1	8.9
65°	8557.2	4997.1	111.0	71.1	46.6	37.8	28.9	20.0	11.1	4.4	2.2
67.5°	7944.2	4324.1	88.8	55.5	37.8	28.9	22.2	15.5	4.4	0.0	0.0
70°	6214.1	3271.4	73.3	44.4	31.1	24.4	15.5	8.9	2.2	0.0	0.0
72.5°	3959.9	1958.9	60.0	35.5	26.7	17.8	11.1	6.7	0.0	0.0	0.0
75°	1656.8	604.1	46.6	31.1	20.0	13.3	8.9	2.2	0.0	0.0	0.0
77.5°	426.4	191.0	37.8	26.7	20.0	11.1	6.7	2.2	0.0	0.0	0.0
80°	126.6	71.1	31.1	22.2	15.5	8.9	4.4	2.2	0.0	0.0	0.0
82.5°	57.7	42.2	26.7	20.0	13.3	8.9	4.4	0.0	0.0	0.0	0.0
85°	22.2	13.3	13.3	11.1	11.1	6.7	2.2	0.0	0.0	0.0	0.0
87.5°	8.9	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)