

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: P482350

Luminaire Tested: **IFLD-M-SA4B-727-U-T3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482350
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-727-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

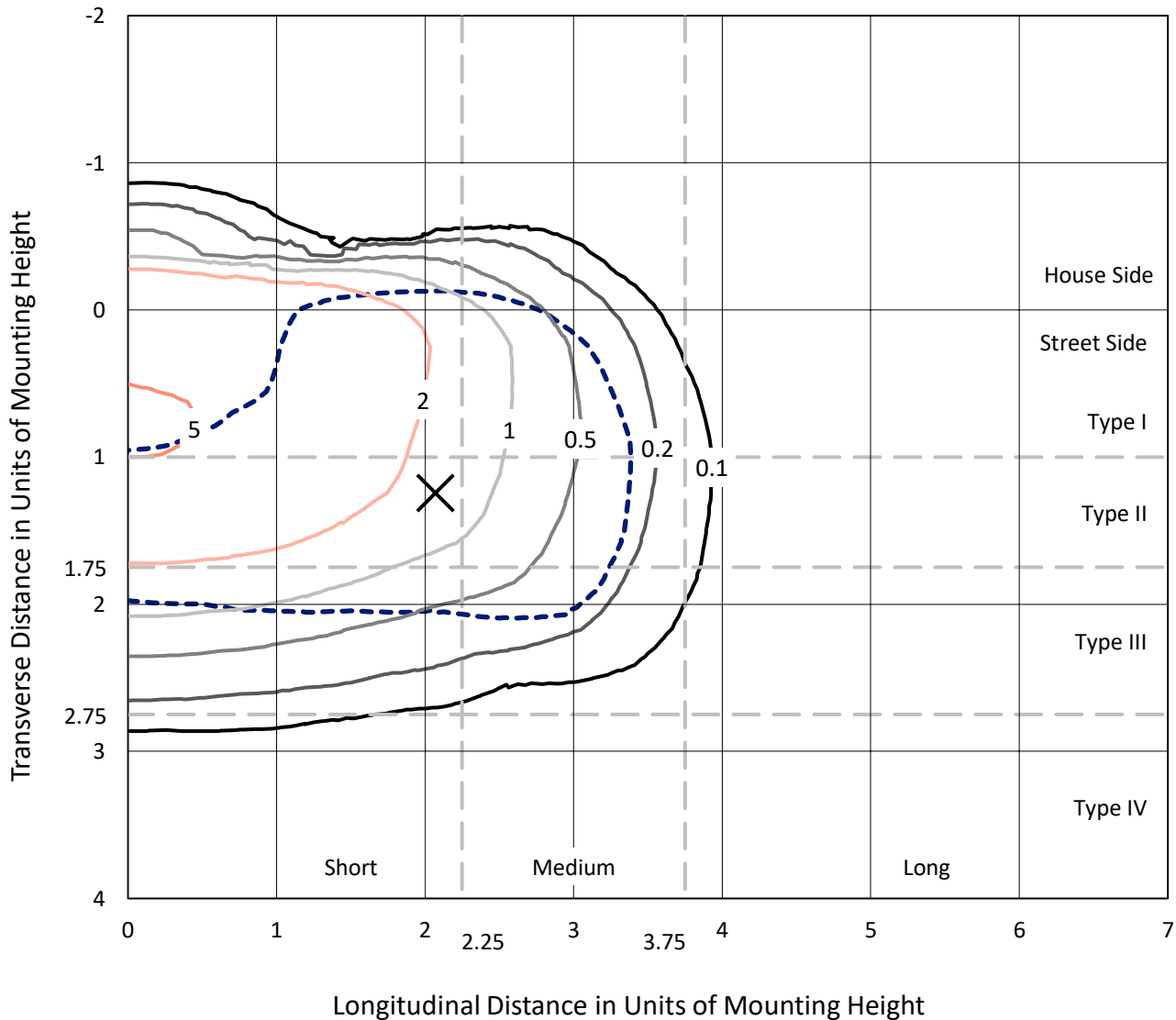
Lumens per Lamp: N/A
Luminaire Lumens: 14173.1 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 166.1
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

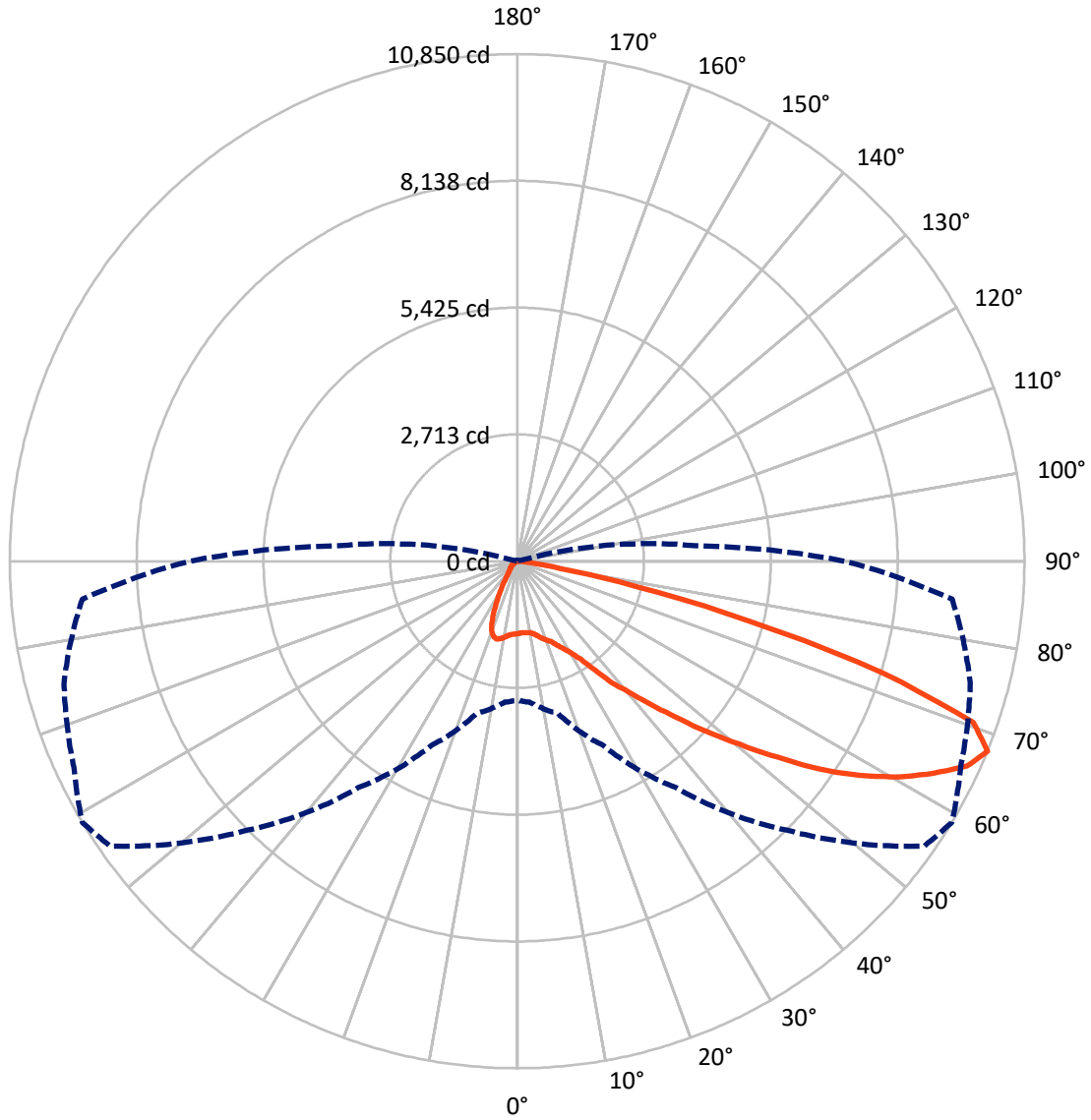
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 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
House Side	Lumens	1664.9	0.0	1664.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	12508.3	0.0	12508.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	14173.1	0.0	14173.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	1.0
10°-20°	426.5	3.0
20°-30°	745.5	5.3
30°-40°	1312.5	9.3
40°-50°	2320.1	16.4
50°-60°	3673.6	25.9
60°-70°	4075.0	28.8
70°-80°	1413.9	10.0
80°-90°	58.2	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°	14173.1	100.0
0°-180°	14173.1	100.0

Coefficient of Utilization

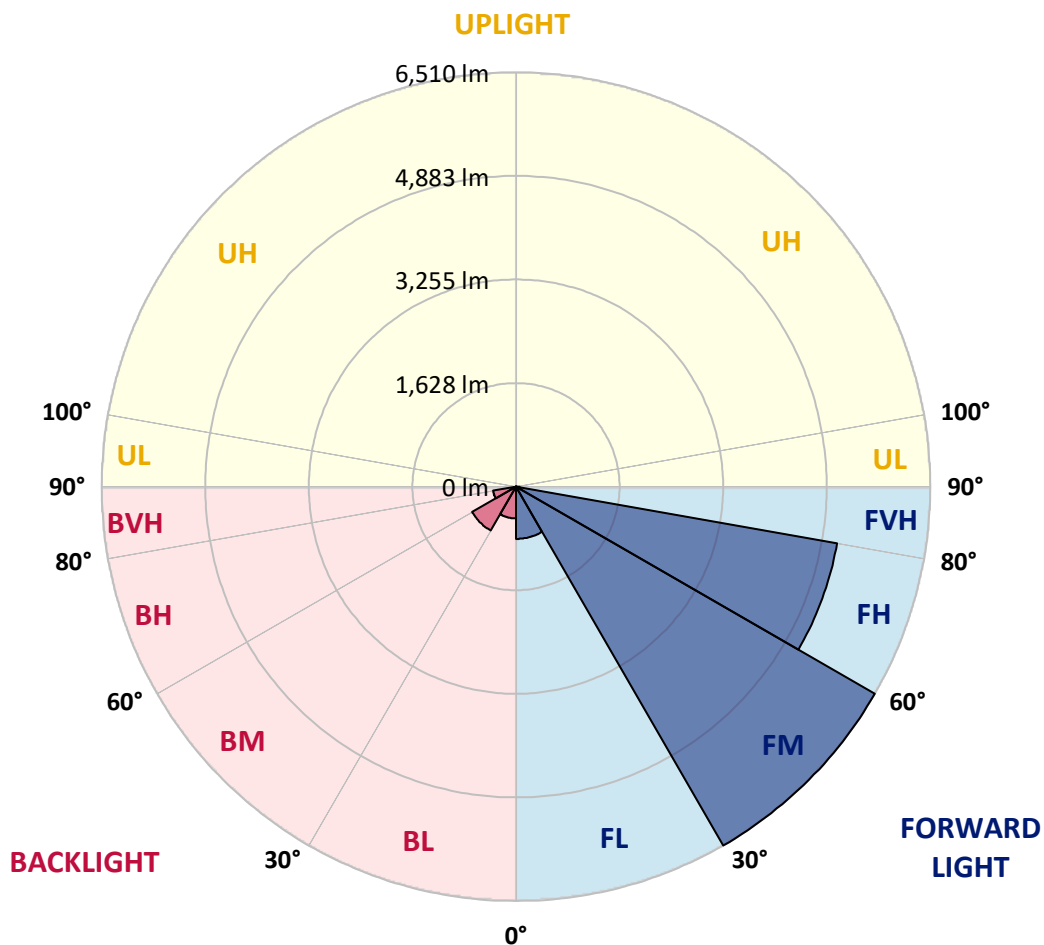


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	820.7	5.8			
FM (30°-60°)	6510.2	45.9			
FH (60°-80°)	5122.8	36.1			G3/7500
FVH (80°-90°)	54.5	0.4			G1/100
BL (0°-30°)	499.0	3.5	B1/500		
BM (30°-60°)	796.0	5.6	B1/1000		
BH (60°-80°)	366.1	2.6	B1/500		G1/500
BVH (80°-90°)	3.8	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5
2.5°	1509.5	1488.0	1507.5	1509.5	1511.5	1529.1	1548.7	1535.0	1533.0	1548.7	1562.4
5°	1448.8	1439.0	1462.5	1474.3	1493.8	1509.5	1540.8	1542.8	1544.7	1562.4	1585.9
7.5°	1423.4	1399.9	1427.3	1441.0	1454.7	1491.9	1529.1	1548.7	1576.1	1597.6	1621.1
10°	1372.5	1390.1	1397.9	1421.4	1460.6	1503.6	1548.7	1558.5	1619.1	1636.8	1693.5
12.5°	1390.1	1401.8	1417.5	1423.4	1466.4	1531.0	1591.7	1595.7	1658.3	1734.7	1764.0
15°	1435.1	1427.3	1433.2	1441.0	1491.9	1544.7	1642.6	1660.3	1719.0	1805.1	1877.6
17.5°	1531.0	1517.3	1507.5	1505.6	1517.3	1566.3	1681.8	1734.7	1789.5	1907.0	1944.2
20°	1771.9	1760.1	1721.0	1619.1	1583.9	1603.5	1728.8	1803.2	1879.5	2010.7	2071.4
22.5°	2138.0	2149.7	2057.7	1914.8	1767.9	1691.6	1803.2	1867.8	1989.2	2155.6	2210.4
25°	2570.7	2547.2	2435.6	2269.2	2038.1	1858.0	1922.6	1995.1	2143.9	2280.9	2302.4
27.5°	2909.4	2882.0	2795.8	2594.2	2394.5	2102.7	2079.2	2124.3	2300.5	2423.8	2400.3
30°	3244.2	3254.0	3195.2	2956.4	2709.7	2402.3	2253.5	2273.1	2408.2	2566.7	2513.9
32.5°	3671.0	3647.5	3614.2	3404.7	3113.0	2784.1	2529.5	2498.2	2557.0	2766.5	2703.8
35°	4068.4	4054.7	4009.7	3798.2	3543.7	3185.4	2936.8	2866.3	2852.6	3085.6	2975.9
37.5°	4415.0	4391.5	4322.9	4187.9	3941.2	3639.7	3367.5	3304.9	3302.9	3463.4	3252.0
40°	4706.7	4724.3	4716.5	4567.7	4432.6	4191.8	3774.7	3674.9	3667.1	3753.2	3629.9
42.5°	5084.6	5125.7	5104.1	5074.8	4912.3	4818.3	4346.4	4193.7	4125.2	4301.4	4189.8
45°	5656.2	5671.9	5685.6	5613.2	5450.7	5470.2	4937.7	4755.6	4738.0	5000.4	4749.8
47.5°	6190.7	6149.6	6245.6	6249.5	6241.6	6151.6	5576.0	5440.9	5464.4	5664.1	5405.6
50°	6323.9	6429.6	6693.9	6742.9	6870.1	6952.3	6284.7	6149.6	6188.8	6415.9	6120.3
52.5°	6427.6	6588.2	6852.5	7210.8	7553.4	7749.2	7077.6	6968.0	6966.1	7105.1	6697.8
55°	6609.7	6707.6	6936.7	7430.1	8082.0	8403.1	8033.1	7856.9	7698.3	7796.2	7296.9
57.5°	6592.1	6629.3	6985.6	7594.5	8501.0	9084.5	8818.2	8649.8	8446.2	8389.4	7986.1
60°	6282.8	6370.9	6770.3	7482.9	8759.4	9615.0	9550.4	9378.1	9027.7	8894.5	8514.7
62.5°	5670.0	5787.4	6100.7	7091.4	8383.5	9642.4	10055.5	9990.9	9599.4	9360.5	9203.9
65°	4595.1	4649.9	5010.2	6096.8	7533.8	9221.5	10652.7	10572.4	10212.2	9855.8	9558.3
67.5°	2975.9	3028.8	3375.3	4352.3	5916.6	8134.9	10629.2	10850.4	10460.8	10032.1	9337.0
70°	1405.7	1392.0	1715.1	2418.0	3790.4	6212.3	9910.7	10347.3	10016.4	9094.2	7755.1
72.5°	428.8	466.0	712.7	1070.9	1946.1	3874.6	7768.8	8178.0	8074.2	7265.6	5176.6
75°	189.9	205.6	280.0	438.6	789.0	1589.8	4798.7	5162.9	5117.8	4285.7	2363.1
77.5°	121.4	133.1	176.2	250.6	358.3	505.1	2210.4	2564.8	2486.5	1505.6	618.7
80°	86.1	92.0	125.3	172.3	225.2	207.5	761.6	904.5	867.3	409.2	166.4
82.5°	47.0	50.9	92.0	127.3	150.8	105.7	213.4	266.3	278.0	182.1	80.3
85°	17.6	21.5	56.8	90.1	78.3	48.9	62.7	76.4	99.9	99.9	37.2
87.5°	0.0	2.0	23.5	39.2	19.6	13.7	17.6	21.5	27.4	47.0	13.7
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°	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5
2.5°	1572.2	1558.5	1564.3	1574.1	1552.6	1564.3	1540.8	1558.5	1564.3	1540.8	1552.6
5°	1591.7	1605.4	1597.6	1581.9	1568.2	1572.2	1566.3	1552.6	1564.3	1568.2	1560.4
7.5°	1648.5	1632.9	1636.8	1619.1	1591.7	1589.8	1552.6	1542.8	1546.7	1550.6	1536.9
10°	1701.4	1711.2	1691.6	1677.9	1632.9	1603.5	1552.6	1497.8	1491.9	1468.4	1488.0
12.5°	1795.4	1771.9	1764.0	1719.0	1674.0	1576.1	1466.4	1382.2	1311.8	1286.3	1260.9
15°	1873.7	1869.8	1856.0	1787.5	1683.8	1505.6	1298.1	1102.3	967.2	883.0	871.2
17.5°	1981.4	1963.7	1938.3	1830.6	1611.3	1321.6	967.2	720.5	585.4	532.5	513.0
20°	2063.6	2049.9	2014.6	1820.8	1480.1	984.8	599.1	458.1	424.9	415.1	417.0
22.5°	2183.0	2139.9	2073.4	1771.9	1241.3	655.9	430.7	409.2	403.3	395.5	397.4
25°	2286.8	2247.6	2108.6	1687.7	885.0	434.6	399.4	387.7	377.9	368.1	366.1
27.5°	2378.8	2329.8	2145.8	1515.4	554.1	374.0	370.0	356.3	336.8	321.1	315.2
30°	2468.9	2412.1	2155.6	1192.3	374.0	338.7	328.9	307.4	281.9	260.4	256.5
32.5°	2619.6	2551.1	2141.9	851.7	323.0	301.5	280.0	254.5	217.3	199.7	195.8
35°	2854.6	2750.8	2124.3	501.2	289.8	266.3	233.0	199.7	172.3	154.7	150.8
37.5°	3124.7	2944.6	2073.4	334.8	266.3	234.9	191.9	158.6	135.1	121.4	117.5
40°	3526.1	3228.5	1877.6	274.1	236.9	199.7	154.7	125.3	107.7	97.9	94.0
42.5°	3968.6	3553.5	1576.1	246.7	209.5	170.3	123.3	101.8	88.1	78.3	78.3
45°	4499.2	3892.2	1215.8	225.2	186.0	141.0	101.8	82.2	70.5	62.7	58.7
47.5°	5090.4	4199.6	820.3	203.6	156.6	115.5	84.2	62.7	50.9	45.0	45.0
50°	5619.0	4471.7	522.7	178.2	137.0	95.9	68.5	50.9	41.1	33.3	31.3
52.5°	6098.7	4679.3	360.2	156.6	117.5	78.3	56.8	41.1	31.3	25.5	25.5
55°	6590.1	4785.0	266.3	135.1	101.8	66.6	47.0	37.2	27.4	21.5	19.6
57.5°	6993.5	4830.0	203.6	117.5	86.1	52.9	41.1	31.3	23.5	17.6	15.7
60°	7338.0	4808.5	158.6	97.9	68.5	45.0	35.2	25.5	19.6	13.7	11.7
62.5°	7539.7	4679.3	125.3	84.2	54.8	39.2	29.4	21.5	13.7	9.8	7.8
65°	7543.6	4405.2	97.9	62.7	41.1	33.3	25.5	17.6	9.8	3.9	2.0
67.5°	7003.3	3811.9	78.3	48.9	33.3	25.5	19.6	13.7	3.9	0.0	0.0
70°	5478.1	2883.9	64.6	39.2	27.4	21.5	13.7	7.8	2.0	0.0	0.0
72.5°	3490.9	1726.8	52.9	31.3	23.5	15.7	9.8	5.9	0.0	0.0	0.0
75°	1460.6	532.5	41.1	27.4	17.6	11.7	7.8	2.0	0.0	0.0	0.0
77.5°	375.9	168.4	33.3	23.5	17.6	9.8	5.9	2.0	0.0	0.0	0.0
80°	111.6	62.7	27.4	19.6	13.7	7.8	3.9	2.0	0.0	0.0	0.0
82.5°	50.9	37.2	23.5	17.6	11.7	7.8	3.9	0.0	0.0	0.0	0.0
85°	19.6	11.7	11.7	9.8	9.8	5.9	2.0	0.0	0.0	0.0	0.0
87.5°	7.8	3.9	3.9	3.9	2.0	2.0	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)