

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: P482312

Luminaire Tested: **IFLD-M-SA4C-722-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482312  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-722-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

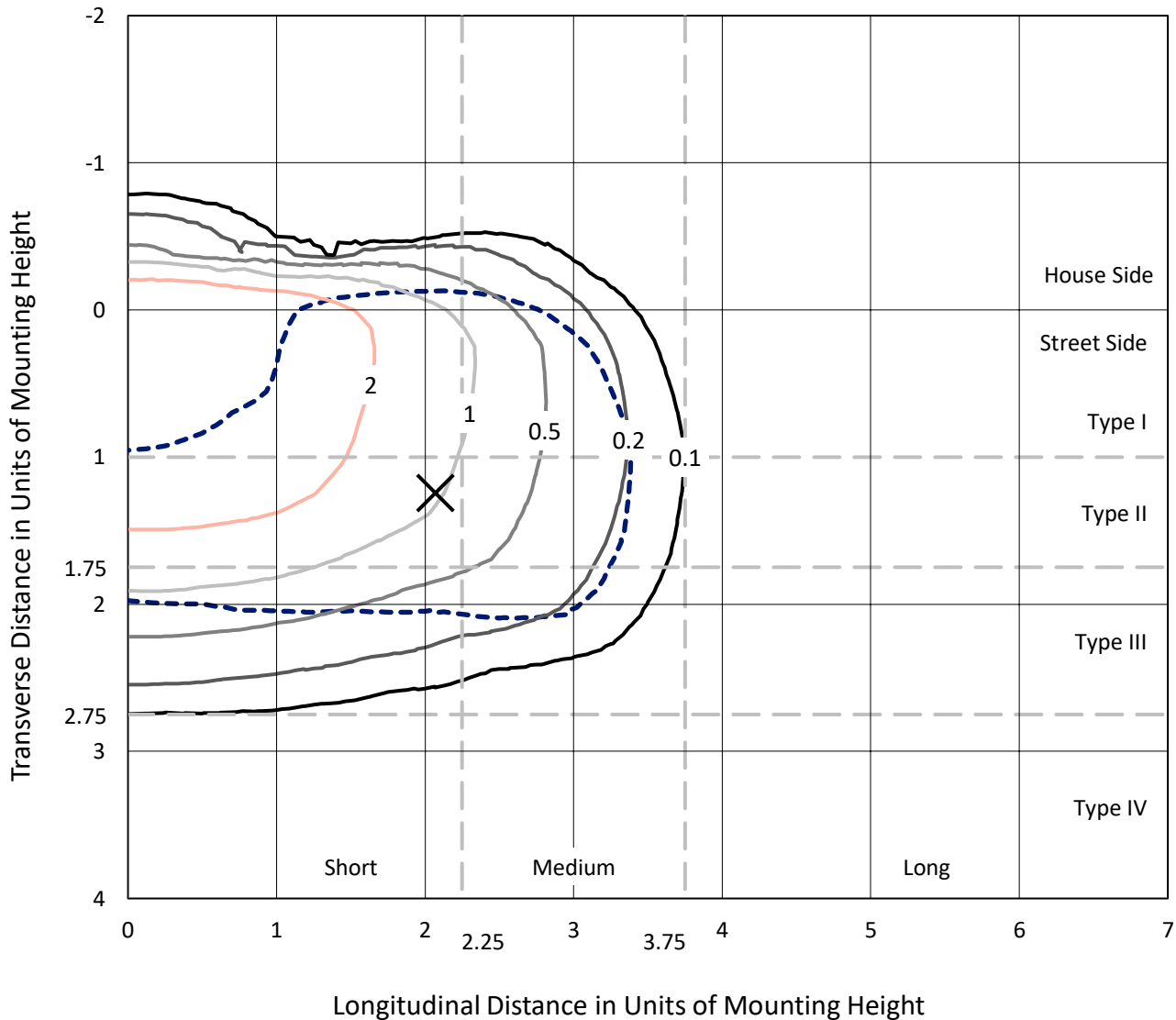
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15540.1 lumens  
Efficiency: N/A  
Efficacy: 71.3 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): 218.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

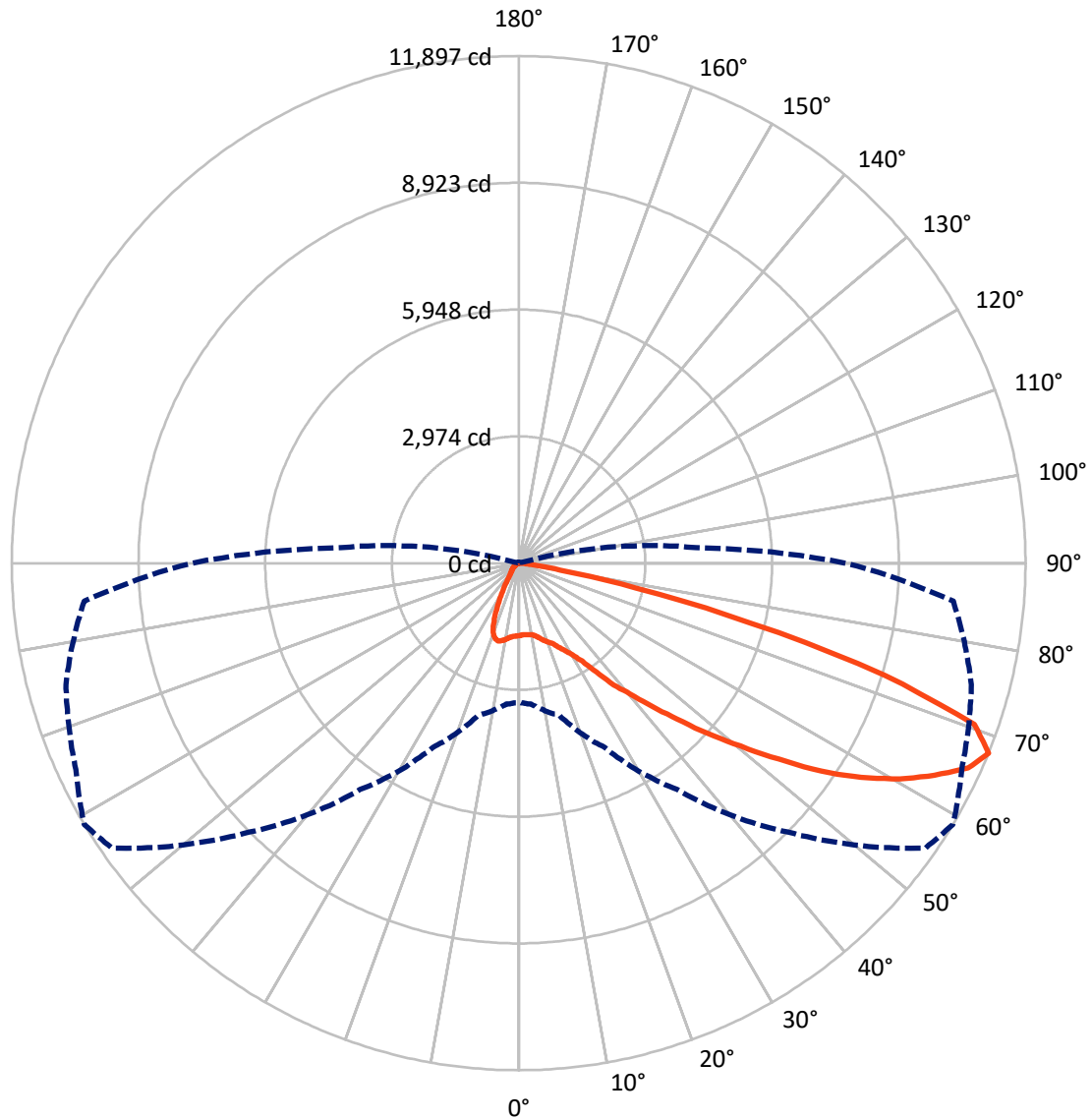
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	1825.4	0.0	1825.4
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	13714.6	0.0	13714.6
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	15540.1	0.0	15540.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.9	1.0
10°-20°	467.7	3.0
20°-30°	817.4	5.3
30°-40°	1439.1	9.3
40°-50°	2543.9	16.4
50°-60°	4027.9	25.9
60°-70°	4468.0	28.8
70°-80°	1550.3	10.0
80°-90°	63.8	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°	15540.1	100.0
0°-180°	15540.1	100.0

**Coefficient of Utilization**

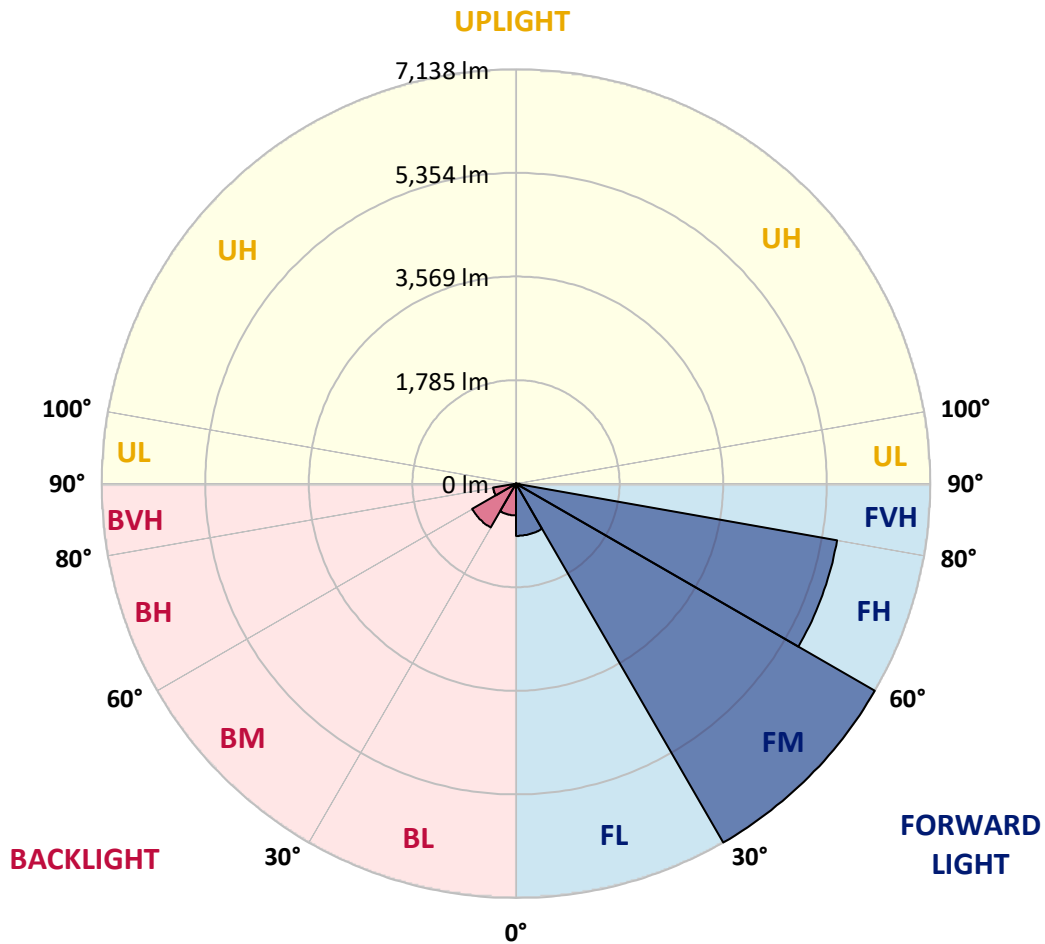


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	899.9	5.8			
FM (30°-60°)	7138.1	45.9			
FH (60°-80°)	5616.9	36.1			G3/7500
FVH (80°-90°)	59.7	0.4			G1/100
BL (0°-30°)	547.1	3.5	B2/1000		
BM (30°-60°)	872.8	5.6	B1/1000		
BH (60°-80°)	401.4	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°	1704.5	1704.5	1704.5	1704.5	1704.5	1704.5	1704.5	1704.5	1704.5	1704.5	1704.5
2.5°	1655.1	1631.5	1652.9	1655.1	1657.2	1676.6	1698.0	1683.0	1680.9	1698.0	1713.1
5°	1588.5	1577.8	1603.6	1616.5	1637.9	1655.1	1689.4	1691.6	1693.7	1713.1	1738.8
7.5°	1560.6	1534.9	1564.9	1580.0	1595.0	1635.8	1676.6	1698.0	1728.1	1751.7	1777.5
10°	1504.8	1524.1	1532.7	1558.5	1601.4	1648.7	1698.0	1708.8	1775.3	1794.6	1856.9
12.5°	1524.1	1537.0	1554.2	1560.6	1607.9	1678.7	1745.3	1749.5	1818.2	1902.0	1934.2
15°	1573.5	1564.9	1571.4	1580.0	1635.8	1693.7	1801.1	1820.4	1884.8	1979.2	2058.7
17.5°	1678.7	1663.7	1652.9	1650.8	1663.7	1717.3	1844.0	1902.0	1962.1	2090.9	2131.7
20°	1942.7	1929.9	1886.9	1775.3	1736.7	1758.1	1895.5	1977.1	2060.8	2204.6	2271.2
22.5°	2344.2	2357.1	2256.2	2099.5	1938.5	1854.7	1977.1	2047.9	2181.0	2363.5	2423.6
25°	2818.6	2792.8	2670.5	2488.0	2234.7	2037.2	2108.0	2187.5	2350.6	2500.9	2524.5
27.5°	3190.0	3159.9	3065.5	2844.4	2625.4	2305.5	2279.8	2329.1	2522.3	2657.6	2631.8
30°	3557.0	3567.8	3503.4	3241.5	2971.0	2634.0	2470.8	2492.3	2640.4	2814.3	2756.3
32.5°	4025.0	3999.3	3962.8	3733.1	3413.2	3052.6	2773.5	2739.2	2803.6	3033.3	2964.6
35°	4460.8	4445.8	4396.4	4164.6	3885.5	3492.6	3220.0	3142.7	3127.7	3383.2	3263.0
37.5°	4840.8	4815.0	4739.9	4591.7	4321.3	3990.7	3692.3	3623.6	3621.4	3797.5	3565.6
40°	5160.6	5179.9	5171.4	5008.2	4860.1	4596.0	4138.8	4029.3	4020.7	4115.2	3979.9
42.5°	5574.9	5620.0	5596.4	5564.2	5386.0	5283.0	4765.6	4598.2	4523.1	4716.3	4593.9
45°	6201.8	6218.9	6234.0	6154.5	5976.4	5997.8	5413.9	5214.3	5195.0	5482.6	5207.8
47.5°	6787.8	6742.7	6847.9	6852.2	6843.6	6744.9	6113.7	5965.6	5991.4	6210.3	5927.0
50°	6933.8	7049.7	7339.5	7393.2	7532.7	7622.9	6890.8	6742.7	6785.7	7034.7	6710.5
52.5°	7047.6	7223.6	7513.4	7906.2	8281.9	8496.6	7760.2	7640.0	7637.9	7790.3	7343.8
55°	7247.2	7354.5	7605.7	8146.7	8861.5	9213.6	8807.8	8614.6	8440.7	8548.1	8000.7
57.5°	7227.9	7268.7	7659.4	8327.0	9320.9	9960.6	9668.6	9484.0	9260.8	9198.5	8756.3
60°	6888.7	6985.3	7423.2	8204.6	9604.2	10542.3	10471.5	10282.6	9898.3	9752.4	9335.9
62.5°	6216.8	6345.6	6689.1	7775.3	9192.1	10572.4	11025.4	10954.5	10525.2	10263.3	10091.5
65°	5038.3	5098.4	5493.4	6684.8	8260.4	10110.9	11680.1	11592.1	11197.1	10806.4	10480.1
67.5°	3263.0	3320.9	3700.9	4772.1	6487.3	8919.5	11654.3	11896.9	11469.7	10999.6	10237.5
70°	1541.3	1526.3	1880.5	2651.2	4156.0	6811.4	10866.5	11345.2	10982.4	9971.3	8503.0
72.5°	470.1	510.9	781.4	1174.2	2133.8	4248.3	8518.0	8966.7	8852.9	7966.3	5675.8
75°	208.2	225.4	307.0	480.9	865.1	1743.1	5261.5	5660.8	5611.4	4699.1	2591.0
77.5°	133.1	146.0	193.2	274.8	392.8	553.8	2423.6	2812.2	2726.3	1650.8	678.4
80°	94.5	100.9	137.4	188.9	246.9	227.5	835.1	991.8	951.0	448.7	182.5
82.5°	51.5	55.8	100.9	139.5	165.3	115.9	234.0	291.9	304.8	199.6	88.0
85°	19.3	23.6	62.3	98.7	85.9	53.7	68.7	83.7	109.5	109.5	40.8
87.5°	0.0	2.1	25.8	42.9	21.5	15.0	19.3	23.6	30.1	51.5	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°	1704.5	1704.5	1704.5	1704.5	1704.5	1704.5	1704.5	1704.5	1704.5	1704.5	1704.5
2.5°	1723.8	1708.8	1715.2	1725.9	1702.3	1715.2	1689.4	1708.8	1715.2	1689.4	1702.3
5°	1745.3	1760.3	1751.7	1734.5	1719.5	1723.8	1717.3	1702.3	1715.2	1719.5	1710.9
7.5°	1807.5	1790.3	1794.6	1775.3	1745.3	1743.1	1702.3	1691.6	1695.9	1700.2	1685.1
10°	1865.5	1876.2	1854.7	1839.7	1790.3	1758.1	1702.3	1642.2	1635.8	1610.0	1631.5
12.5°	1968.5	1942.7	1934.2	1884.8	1835.4	1728.1	1607.9	1515.6	1438.3	1410.4	1382.5
15°	2054.4	2050.1	2035.1	1959.9	1846.1	1650.8	1423.2	1208.6	1060.5	968.2	955.3
17.5°	2172.4	2153.1	2125.2	2007.1	1766.7	1449.0	1060.5	790.0	641.9	583.9	562.4
20°	2262.6	2247.6	2208.9	1996.4	1622.9	1079.8	656.9	502.3	465.8	455.1	457.2
22.5°	2393.5	2346.3	2273.3	1942.7	1361.0	719.1	472.3	448.7	442.2	433.6	435.8
25°	2507.3	2464.4	2312.0	1850.4	970.3	476.6	437.9	425.0	414.3	403.6	401.4
27.5°	2608.2	2554.5	2352.8	1661.5	607.5	410.0	405.7	390.7	369.2	352.1	345.6
30°	2707.0	2644.7	2363.5	1307.3	410.0	371.4	360.6	337.0	309.1	285.5	281.2
32.5°	2872.3	2797.1	2348.5	933.8	354.2	330.6	307.0	279.1	238.3	219.0	214.7
35°	3129.9	3016.1	2329.1	549.6	317.7	291.9	255.5	219.0	188.9	169.6	165.3
37.5°	3426.1	3228.6	2273.3	367.1	291.9	257.6	210.4	173.9	148.1	133.1	128.8
40°	3866.2	3539.9	2058.7	300.5	259.7	219.0	169.6	137.4	118.1	107.3	103.0
42.5°	4351.3	3896.2	1728.1	270.5	229.7	186.8	135.2	111.6	96.6	85.9	85.9
45°	4933.1	4267.6	1333.1	246.9	203.9	154.6	111.6	90.2	77.3	68.7	64.4
47.5°	5581.4	4604.6	899.5	223.3	171.7	126.7	92.3	68.7	55.8	49.4	49.4
50°	6161.0	4903.0	573.2	195.3	150.3	105.2	75.1	55.8	45.1	36.5	34.3
52.5°	6686.9	5130.6	395.0	171.7	128.8	85.9	62.3	45.1	34.3	27.9	27.9
55°	7225.7	5246.5	291.9	148.1	111.6	73.0	51.5	40.8	30.1	23.6	21.5
57.5°	7667.9	5295.9	223.3	128.8	94.5	58.0	45.1	34.3	25.8	19.3	17.2
60°	8045.8	5272.2	173.9	107.3	75.1	49.4	38.6	27.9	21.5	15.0	12.9
62.5°	8266.9	5130.6	137.4	92.3	60.1	42.9	32.2	23.6	15.0	10.7	8.6
65°	8271.2	4830.0	107.3	68.7	45.1	36.5	27.9	19.3	10.7	4.3	2.1
67.5°	7678.7	4179.6	85.9	53.7	36.5	27.9	21.5	15.0	4.3	0.0	0.0
70°	6006.4	3162.1	70.8	42.9	30.1	23.6	15.0	8.6	2.1	0.0	0.0
72.5°	3827.5	1893.4	58.0	34.3	25.8	17.2	10.7	6.4	0.0	0.0	0.0
75°	1601.4	583.9	45.1	30.1	19.3	12.9	8.6	2.1	0.0	0.0	0.0
77.5°	412.2	184.6	36.5	25.8	19.3	10.7	6.4	2.1	0.0	0.0	0.0
80°	122.4	68.7	30.1	21.5	15.0	8.6	4.3	2.1	0.0	0.0	0.0
82.5°	55.8	40.8	25.8	19.3	12.9	8.6	4.3	0.0	0.0	0.0	0.0
85°	21.5	12.9	12.9	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)