

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: P482856

Luminaire Tested: **IFLD-M-SA4A-740-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482856  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-740-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R  
distribution lens with House Side Shield  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

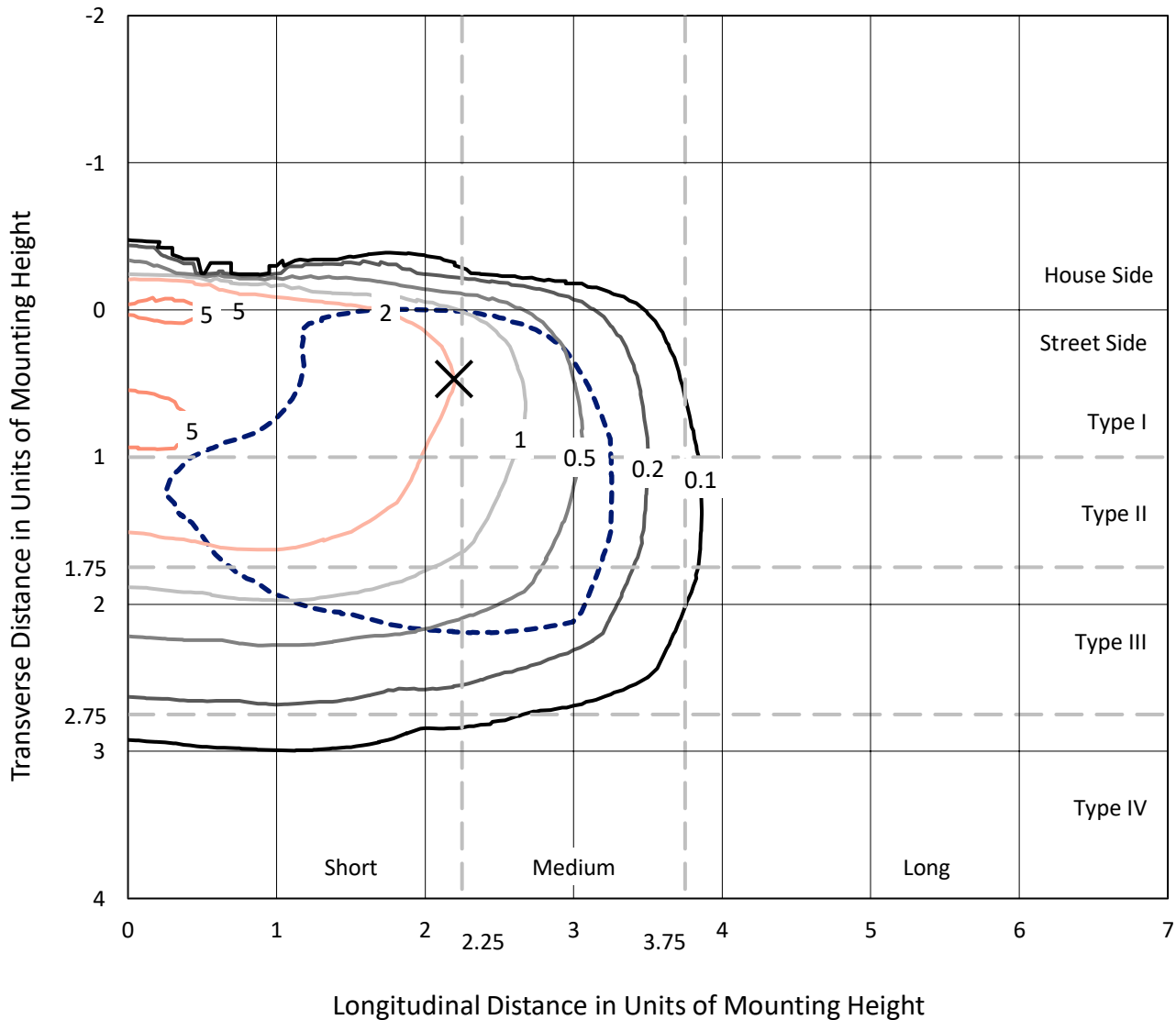
Lumens per Lamp: N/A  
Luminaire Lumens: 13237.8 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): 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

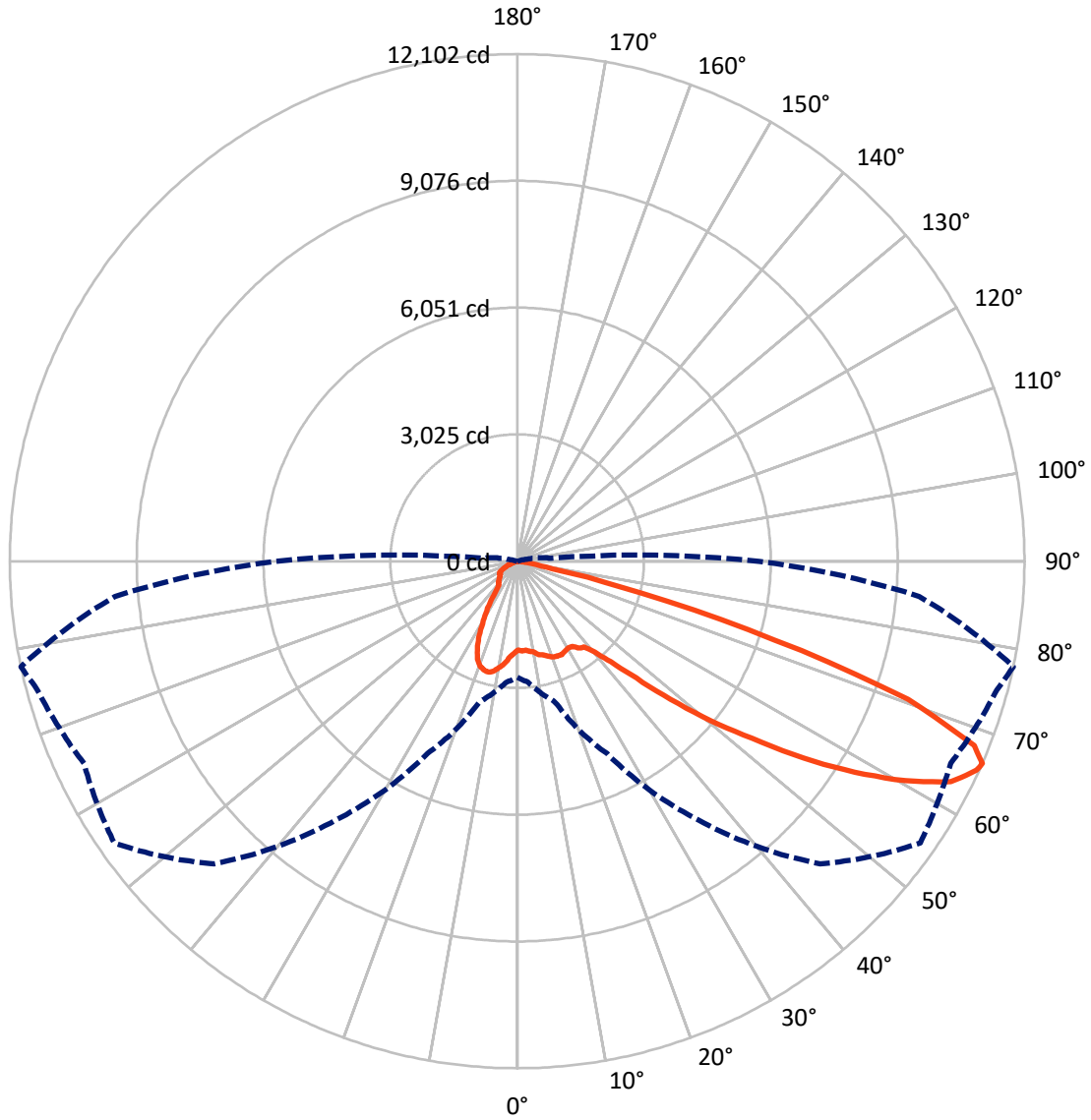
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	930.7	0.0	930.7
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	12307.1	0.0	12307.1
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	13237.8	0.0	13237.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.0	1.5
10°-20°	437.9	3.3
20°-30°	625.8	4.7
30°-40°	1071.3	8.1
40°-50°	1933.6	14.6
50°-60°	3306.6	25.0
60°-70°	4069.9	30.7
70°-80°	1538.6	11.6
80°-90°	60.1	0.5
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°	13237.8	100.0
0°-180°	13237.8	100.0

**Coefficient of Utilization**

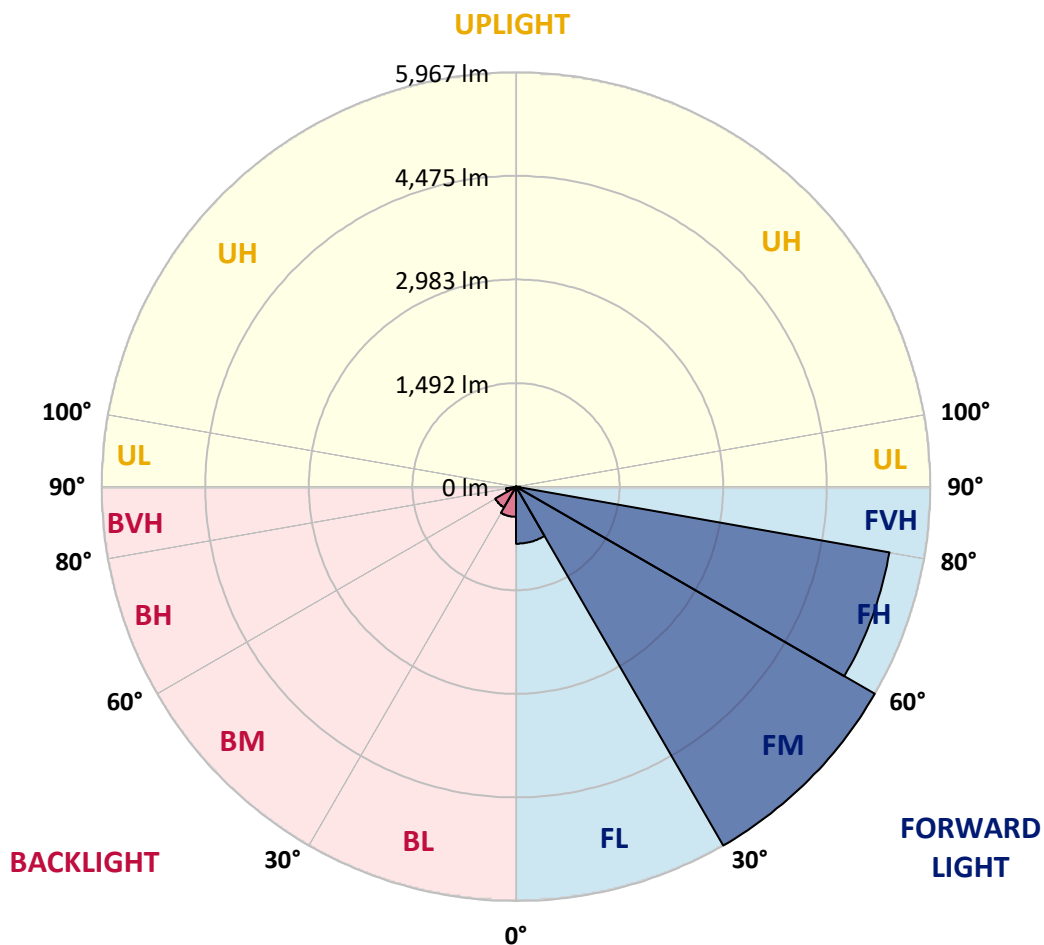


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.8	6.2			
FM (30°-60°)	5966.5	45.1			
FH (60°-80°)	5461.1	41.3			G3/7500
FVH (80°-90°)	57.7	0.4			G1/100
BL (0°-30°)	435.9	3.3	B1/500		
BM (30°-60°)	344.9	2.6	B1/1000		
BH (60°-80°)	147.4	1.1	B1/500		G1/500
BVH (80°-90°)	2.4	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°	65°	75°	78°	85°
0°	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3
2.5°	1950.2	1932.2	1950.2	1976.2	1990.2	2002.2	2044.3	2080.3	2118.3	2144.3	2136.3
5°	1808.2	1842.2	1846.2	1854.2	1876.2	1948.2	1972.2	2034.2	2128.3	2136.3	2172.3
7.5°	1696.2	1686.2	1712.2	1764.2	1820.2	1862.2	1932.2	2040.3	2138.3	2172.3	2242.3
10°	1534.2	1554.2	1582.2	1634.2	1702.2	1806.2	1930.2	2050.3	2190.3	2202.3	2332.3
12.5°	1446.2	1426.2	1470.2	1524.2	1640.2	1736.2	1888.2	2032.2	2222.3	2288.3	2438.3
15°	1374.2	1384.2	1426.2	1462.2	1558.2	1680.2	1858.2	2076.3	2276.3	2322.3	2550.3
17.5°	1344.2	1338.2	1370.2	1406.2	1524.2	1662.2	1846.2	2078.3	2324.3	2384.3	2626.3
20°	1358.2	1370.2	1360.2	1394.2	1468.2	1608.2	1864.2	2116.3	2360.3	2442.3	2708.3
22.5°	1578.2	1562.2	1482.2	1418.2	1422.2	1586.2	1850.2	2140.3	2392.3	2458.3	2764.3
25°	2152.3	2066.3	1868.2	1622.2	1460.2	1526.2	1834.2	2132.3	2386.3	2468.3	2798.3
27.5°	2730.3	2656.3	2462.3	2080.3	1614.2	1502.2	1778.2	2138.3	2356.3	2432.3	2742.3
30°	3340.4	3380.4	3092.4	2638.3	2018.2	1634.2	1742.2	2106.3	2336.3	2400.3	2754.3
32.5°	3966.5	3950.5	3776.5	3284.4	2596.3	1926.2	1800.2	2138.3	2362.3	2424.3	2824.3
35°	4456.5	4400.5	4224.5	3780.5	3074.4	2366.3	2000.2	2290.3	2476.3	2550.3	2924.4
37.5°	4698.6	4722.6	4620.6	4234.5	3598.4	2774.3	2250.3	2290.3	2512.3	2598.3	3086.4
40°	4886.6	4958.6	4920.6	4796.6	4118.5	3234.4	2526.3	2432.3	2694.3	2856.4	3390.4
42.5°	5112.6	5078.6	5302.7	5188.6	4798.6	3814.5	3010.4	2770.3	3124.4	3280.4	3846.5
45°	5232.6	5362.7	5532.7	5678.7	5428.7	4538.6	3642.4	3368.4	3782.5	3980.5	4524.6
47.5°	5540.7	5592.7	5868.7	6052.7	5940.7	5366.7	4602.6	4242.5	4610.6	4922.6	5300.7
50°	5720.7	5650.7	6036.7	6316.8	6380.8	6052.7	5462.7	5182.6	5594.7	5992.7	6026.7
52.5°	5562.7	5762.7	6148.8	6650.8	6828.8	6664.8	6472.8	6350.8	6640.8	7008.9	6844.8
55°	5008.6	5144.6	6084.7	7016.9	7590.9	7514.9	7692.9	7612.9	7905.0	8295.0	7801.0
57.5°	4562.6	4732.6	5558.7	7206.9	8301.0	8525.0	8749.1	8699.1	9051.1	9501.2	8611.1
60°	4284.5	4382.5	5178.6	7158.9	8721.1	9569.2	10075.2	9723.2	10297.3	10641.3	9245.1
62.5°	3802.5	3864.5	4624.6	6522.8	8847.1	10307.3	11165.4	10687.3	11185.4	11605.4	9701.2
65°	3048.4	3216.4	3844.5	5570.7	8015.0	10443.3	11845.5	11283.4	11765.4	12041.5	9839.2
66°	2774.3	2896.4	3472.4	5066.6	7540.9	10217.3	11731.4	11407.4	11849.5	12101.5	9627.2
67.5°	2302.3	2408.3	2866.4	4348.5	6570.8	9719.2	11811.4	11323.4	11913.5	11759.4	9343.1
70°	1524.2	1592.2	1960.2	2940.4	4576.6	7951.0	10955.3	10667.3	10473.3	9895.2	7304.9
72.5°	712.1	810.1	1224.2	1782.2	2684.3	5562.7	8933.1	8547.0	7344.9	6420.8	4608.6
75°	322.0	366.0	672.1	1022.1	1204.1	2882.4	5762.7	5204.6	3656.4	3036.4	2018.2
77.5°	174.0	198.0	328.0	486.1	438.1	1010.1	2852.3	2372.3	1152.1	844.1	586.1
80°	134.0	158.0	274.0	278.0	162.0	262.0	1060.1	734.1	288.0	218.0	140.0
82.5°	70.0	100.0	216.0	180.0	82.0	106.0	328.0	204.0	90.0	72.0	60.0
85°	28.0	44.0	122.0	120.0	48.0	36.0	92.0	62.0	36.0	30.0	28.0
87.5°	2.0	2.0	66.0	46.0	30.0	10.0	14.0	14.0	18.0	16.0	20.0
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°	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3
2.5°	2172.3	2196.3	2200.3	2266.3	2280.3	2266.3	2302.3	2296.3	2312.3	2300.3	2278.3
5°	2222.3	2256.3	2322.3	2372.3	2372.3	2332.3	2300.3	2258.3	2196.3	2180.3	2168.3
7.5°	2308.3	2416.3	2476.3	2444.3	2380.3	2230.3	2022.2	1870.2	1742.2	1694.2	1672.2
10°	2460.3	2520.3	2590.3	2460.3	2194.3	1876.2	1526.2	1296.2	1116.1	1076.1	1046.1
12.5°	2558.3	2654.3	2694.3	2372.3	1850.2	1376.2	996.1	736.1	610.1	514.1	498.1
15°	2686.3	2796.3	2714.3	2134.3	1458.2	902.1	516.1	322.0	262.0	246.0	246.0
17.5°	2774.3	2894.4	2632.3	1838.2	1034.1	480.1	256.0	222.0	218.0	220.0	216.0
20°	2928.4	3000.4	2508.3	1494.2	618.1	246.0	206.0	198.0	194.0	200.0	196.0
22.5°	2986.4	3052.4	2306.3	1082.1	278.0	164.0	154.0	148.0	152.0	150.0	148.0
25°	2982.4	3016.4	1974.2	620.1	82.0	64.0	58.0	58.0	54.0	56.0	54.0
27.5°	3012.4	2928.4	1602.2	184.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3028.4	2786.3	1140.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3036.4	2712.3	734.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3098.4	2564.3	314.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3140.4	2374.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3314.4	2314.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3540.4	2202.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3854.5	2036.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4270.5	1938.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4580.6	1784.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4974.6	1692.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5442.7	1696.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5868.7	1668.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6086.7	1426.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6040.7	1154.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5880.7	906.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5770.7	802.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5436.7	642.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4326.5	440.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2752.3	270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1268.2	124.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	398.0	76.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	104.0	48.0	16.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	54.0	34.0	14.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.0	14.0	6.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	30.0	8.0	4.0	4.0	2.0	0.0	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)