

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: P482740

Luminaire Tested: **IFLD-M-SA4B-727-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482740  
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-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

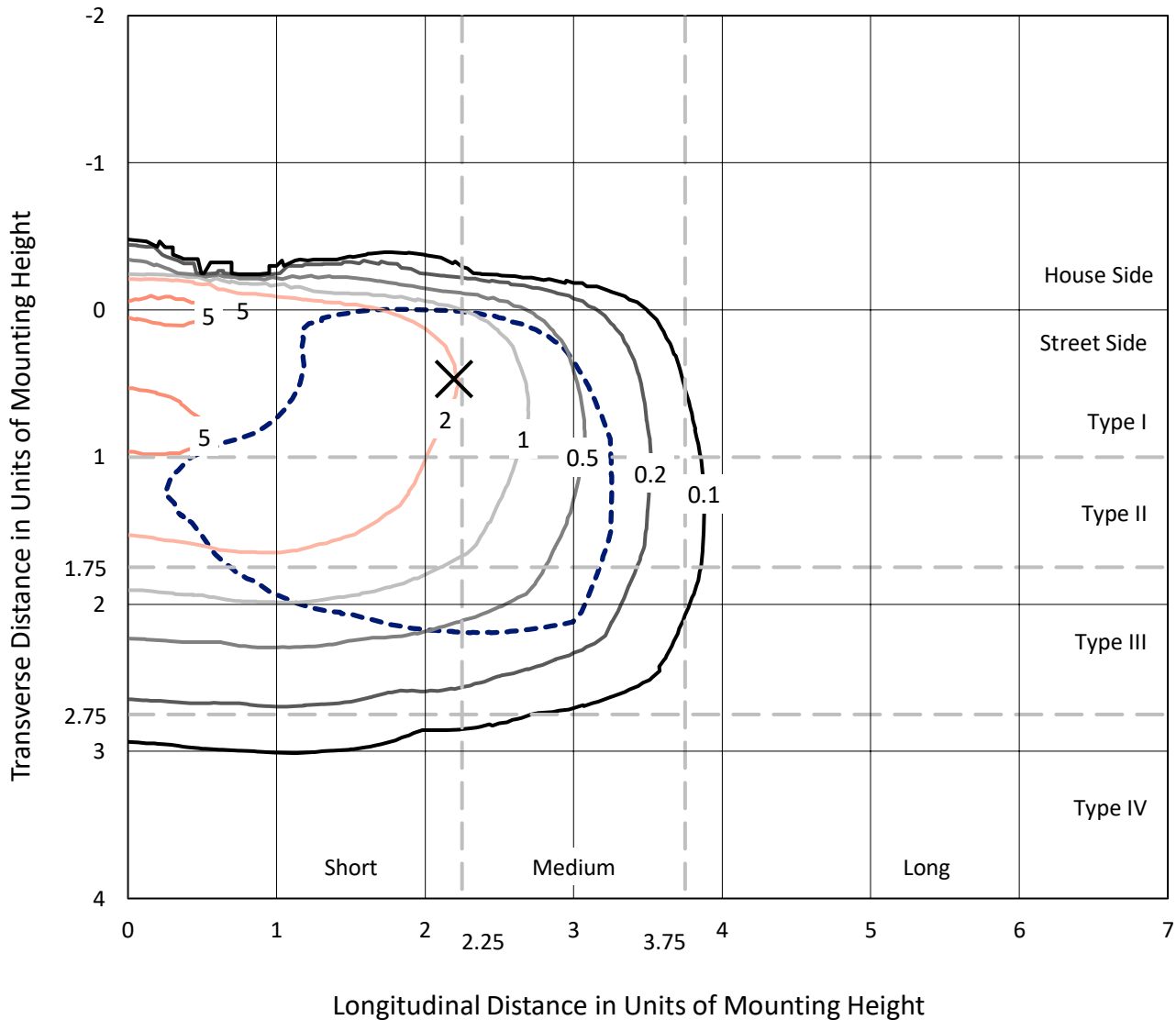
Lumens per Lamp: N/A  
Luminaire Lumens: 13691.7 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 166.1  
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

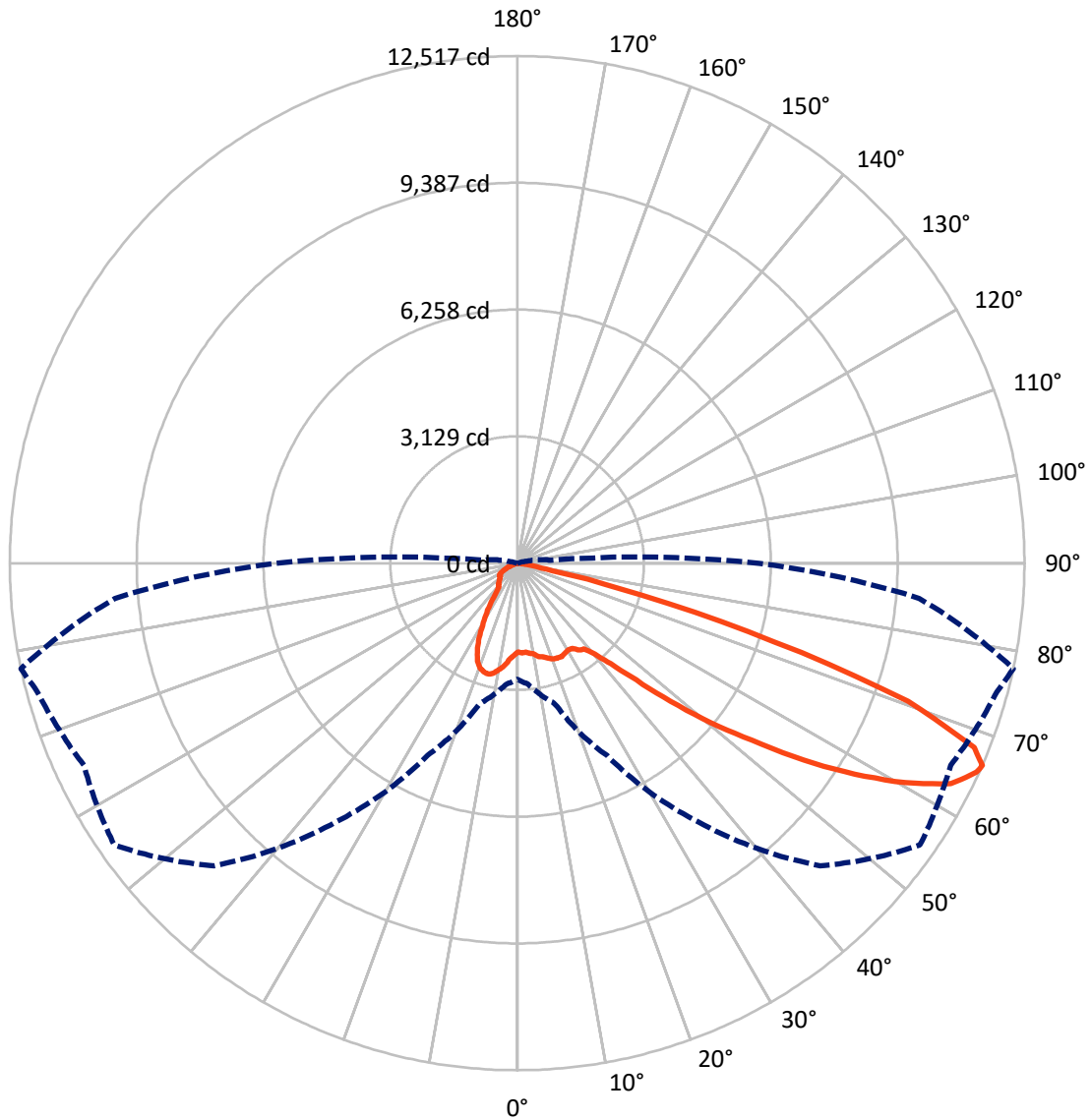
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 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	962.6	0.0	962.6
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	12729.1	0.0	12729.1
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	13691.7	0.0	13691.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.6	1.5
10°-20°	452.9	3.3
20°-30°	647.3	4.7
30°-40°	1108.0	8.1
40°-50°	1999.9	14.6
50°-60°	3420.0	25.0
60°-70°	4209.4	30.7
70°-80°	1591.4	11.6
80°-90°	62.2	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°	13691.7	100.0
0°-180°	13691.7	100.0

**Coefficient of Utilization**

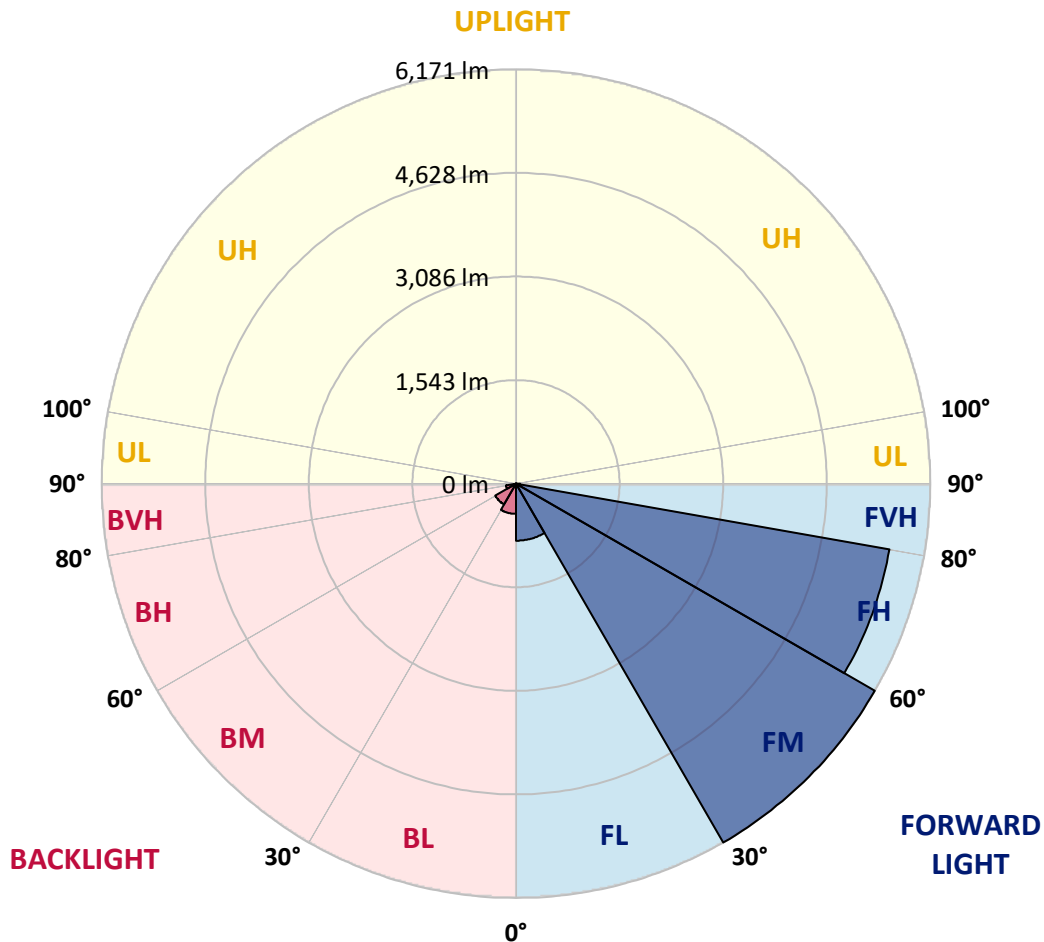


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	850.0	6.2			
FM (30°-60°)	6171.1	45.1			
FH (60°-80°)	5648.3	41.3			G3/7500
FVH (80°-90°)	59.7	0.4			G1/100
BL (0°-30°)	450.8	3.3	B1/500		
BM (30°-60°)	356.8	2.6	B1/1000		
BH (60°-80°)	152.5	1.1	B1/500		G1/500
BVH (80°-90°)	2.5	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°	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0
2.5°	2017.1	1998.5	2017.1	2044.0	2058.5	2070.9	2114.3	2151.6	2190.9	2217.8	2209.5
5°	1870.2	1905.4	1909.5	1917.8	1940.6	2015.0	2039.9	2104.0	2201.2	2209.5	2246.8
7.5°	1754.4	1744.0	1770.9	1824.7	1882.6	1926.1	1998.5	2110.2	2211.6	2246.8	2319.2
10°	1586.8	1607.5	1636.4	1690.2	1760.6	1868.2	1996.4	2120.6	2265.4	2277.8	2412.3
12.5°	1495.8	1475.1	1520.6	1576.5	1696.4	1795.7	1953.0	2101.9	2298.5	2366.7	2521.9
15°	1421.3	1431.6	1475.1	1512.3	1611.6	1737.8	1921.9	2147.5	2354.3	2401.9	2637.8
17.5°	1390.3	1384.1	1417.2	1454.4	1576.5	1719.2	1909.5	2149.5	2404.0	2466.1	2716.4
20°	1404.7	1417.2	1406.8	1442.0	1518.5	1663.3	1928.2	2188.8	2441.2	2526.0	2801.2
22.5°	1632.3	1615.8	1533.0	1466.8	1470.9	1640.6	1913.7	2213.7	2474.3	2542.6	2859.1
25°	2226.1	2137.1	1932.3	1677.8	1510.2	1578.5	1897.1	2205.4	2468.1	2552.9	2894.3
27.5°	2824.0	2747.4	2546.7	2151.6	1669.6	1553.7	1839.2	2211.6	2437.1	2515.7	2836.4
30°	3455.0	3496.3	3198.4	2728.8	2087.5	1690.2	1802.0	2178.5	2416.4	2482.6	2848.8
32.5°	4102.5	4085.9	3906.0	3397.0	2685.3	1992.3	1862.0	2211.6	2443.3	2507.4	2921.2
35°	4609.4	4551.4	4369.4	3910.1	3179.8	2447.4	2068.8	2368.8	2561.2	2637.8	3024.6
37.5°	4859.7	4884.5	4779.0	4379.7	3721.8	2869.5	2327.4	2368.8	2598.5	2687.4	3192.2
40°	5054.2	5128.6	5089.3	4961.1	4259.7	3345.3	2612.9	2515.7	2786.7	2954.3	3506.7
42.5°	5287.9	5252.8	5484.5	5366.6	4963.1	3945.3	3113.6	2865.3	3231.5	3392.9	3978.4
45°	5412.1	5546.5	5722.4	5873.4	5614.8	4694.2	3767.3	3483.9	3912.2	4117.0	4679.7
47.5°	5730.7	5784.5	6070.0	6260.3	6144.4	5550.7	4760.4	4388.0	4768.7	5091.4	5482.4
50°	5916.9	5844.5	6243.7	6533.4	6599.6	6260.3	5650.0	5360.4	5786.5	6198.2	6233.4
52.5°	5753.4	5960.3	6359.6	6878.9	7063.0	6893.4	6694.8	6568.6	6868.5	7249.2	7079.6
55°	5180.4	5321.0	6293.4	7257.5	7851.2	7772.6	7956.7	7874.0	8176.0	8579.5	8068.5
57.5°	4719.0	4894.9	5749.3	7454.0	8585.7	8817.4	9049.1	8997.4	9361.5	9827.0	8906.3
60°	4431.4	4532.8	5356.2	7404.4	9020.1	9897.3	10420.7	10056.6	10650.4	11006.2	9562.2
62.5°	3932.9	3997.0	4783.1	6746.5	9150.5	10660.7	11548.2	11053.8	11568.9	12003.4	10033.9
65°	3152.9	3326.7	3976.3	5761.7	8289.8	10801.4	12251.6	11670.3	12168.9	12454.4	10176.6
66°	2869.5	2995.7	3591.5	5240.4	7799.5	10567.6	12133.7	11798.6	12255.8	12516.5	9957.3
67.5°	2381.2	2490.9	2964.6	4497.6	6796.1	10052.5	12216.5	11711.7	12322.0	12162.7	9663.5
70°	1576.5	1646.8	2027.5	3041.2	4733.5	8223.6	11331.0	11033.1	10832.4	10234.5	7555.4
72.5°	736.5	837.9	1266.1	1843.3	2776.4	5753.4	9239.4	8840.1	7596.8	6641.0	4766.6
75°	333.1	378.6	695.1	1057.2	1245.4	2981.2	5960.3	5383.1	3781.8	3140.5	2087.5
77.5°	180.0	204.8	339.3	502.7	453.1	1044.8	2950.2	2453.6	1191.6	873.0	606.2
80°	138.6	163.4	283.4	287.6	167.6	271.0	1096.5	759.3	297.9	225.5	144.8
82.5°	72.4	103.4	223.4	186.2	84.8	109.6	339.3	211.0	93.1	74.5	62.1
85°	29.0	45.5	126.2	124.1	49.7	37.2	95.2	64.1	37.2	31.0	29.0
87.5°	2.1	2.1	68.3	47.6	31.0	10.3	14.5	14.5	18.6	16.6	20.7
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°	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0	2193.0
2.5°	2246.8	2271.6	2275.7	2344.0	2358.5	2344.0	2381.2	2375.0	2391.6	2379.2	2356.4
5°	2298.5	2333.6	2401.9	2453.6	2453.6	2412.3	2379.2	2335.7	2271.6	2255.0	2242.6
7.5°	2387.4	2499.2	2561.2	2528.1	2461.9	2306.8	2091.6	1934.4	1802.0	1752.3	1729.5
10°	2544.7	2606.7	2679.1	2544.7	2269.5	1940.6	1578.5	1340.6	1154.4	1113.0	1082.0
12.5°	2646.0	2745.3	2786.7	2453.6	1913.7	1423.4	1030.3	761.3	631.0	531.7	515.1
15°	2778.4	2892.2	2807.4	2207.4	1508.2	933.0	533.8	333.1	271.0	254.5	254.5
17.5°	2869.5	2993.6	2722.6	1901.3	1069.6	496.5	264.8	229.6	225.5	227.6	223.4
20°	3028.8	3103.3	2594.3	1545.4	639.3	254.5	213.1	204.8	200.7	206.9	202.7
22.5°	3088.8	3157.0	2385.4	1119.2	287.6	169.6	159.3	153.1	157.2	155.2	153.1
25°	3084.6	3119.8	2041.9	641.3	84.8	66.2	60.0	60.0	55.9	57.9	55.9
27.5°	3115.7	3028.8	1657.1	190.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3132.2	2881.9	1179.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3140.5	2805.3	759.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3204.6	2652.2	324.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3248.1	2455.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3428.1	2393.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3661.8	2277.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3986.6	2106.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4417.0	2004.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4737.6	1845.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5145.2	1750.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5629.3	1754.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6070.0	1725.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6295.5	1475.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6247.9	1193.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6082.4	937.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5968.6	829.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5623.1	664.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4474.9	455.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2846.7	279.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1311.6	128.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	411.7	78.6	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	107.6	49.7	16.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	55.9	35.2	14.5	6.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.2	14.5	6.2	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	31.0	8.3	4.1	4.1	2.1	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)