

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: P482173

Luminaire Tested: **IFLD-S-SA3A-827-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482173  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-827-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

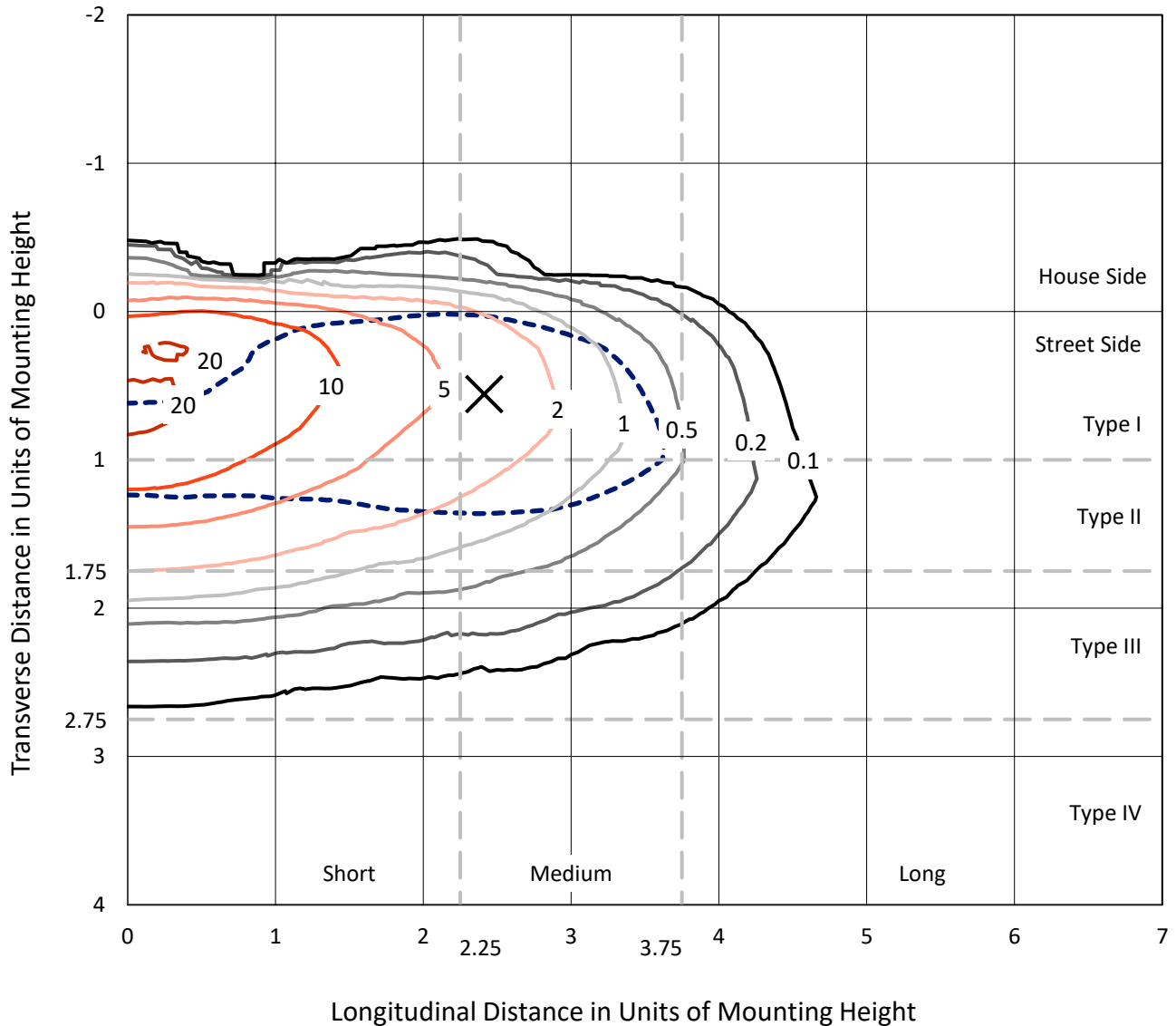
Lumens per Lamp: N/A  
Luminaire Lumens: 7951.6 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8  
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

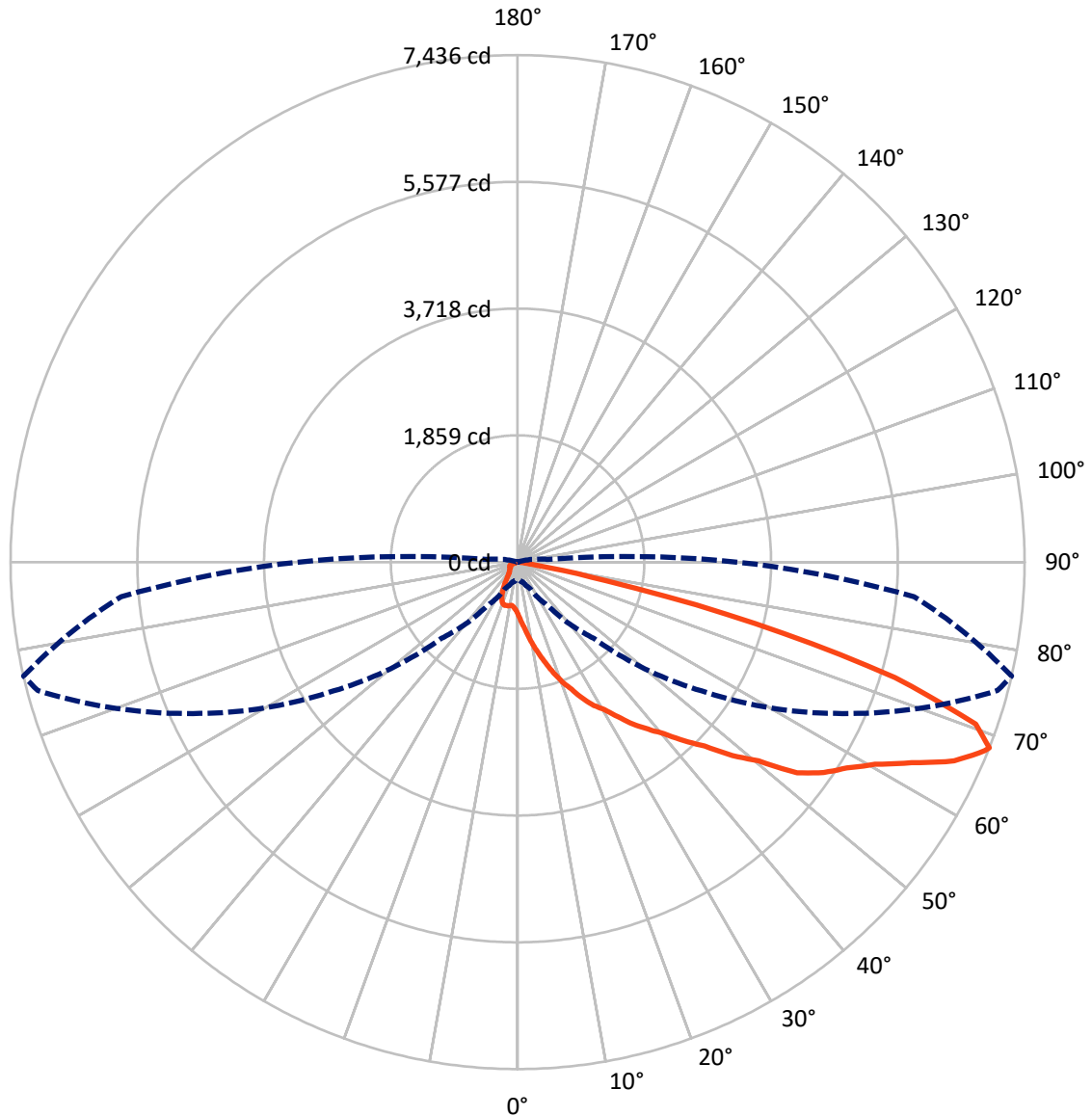
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	360.6	0.0	360.6
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	7591.0	0.0	7591.0
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	7951.6	0.0	7951.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.0	1.1
10°-20°	328.1	4.1
20°-30°	635.8	8.0
30°-40°	1108.4	13.9
40°-50°	1623.3	20.4
50°-60°	1907.1	24.0
60°-70°	1610.4	20.3
70°-80°	624.2	7.9
80°-90°	25.4	0.3
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°	7951.6	100.0
0°-180°	7951.6	100.0

**Coefficient of Utilization**



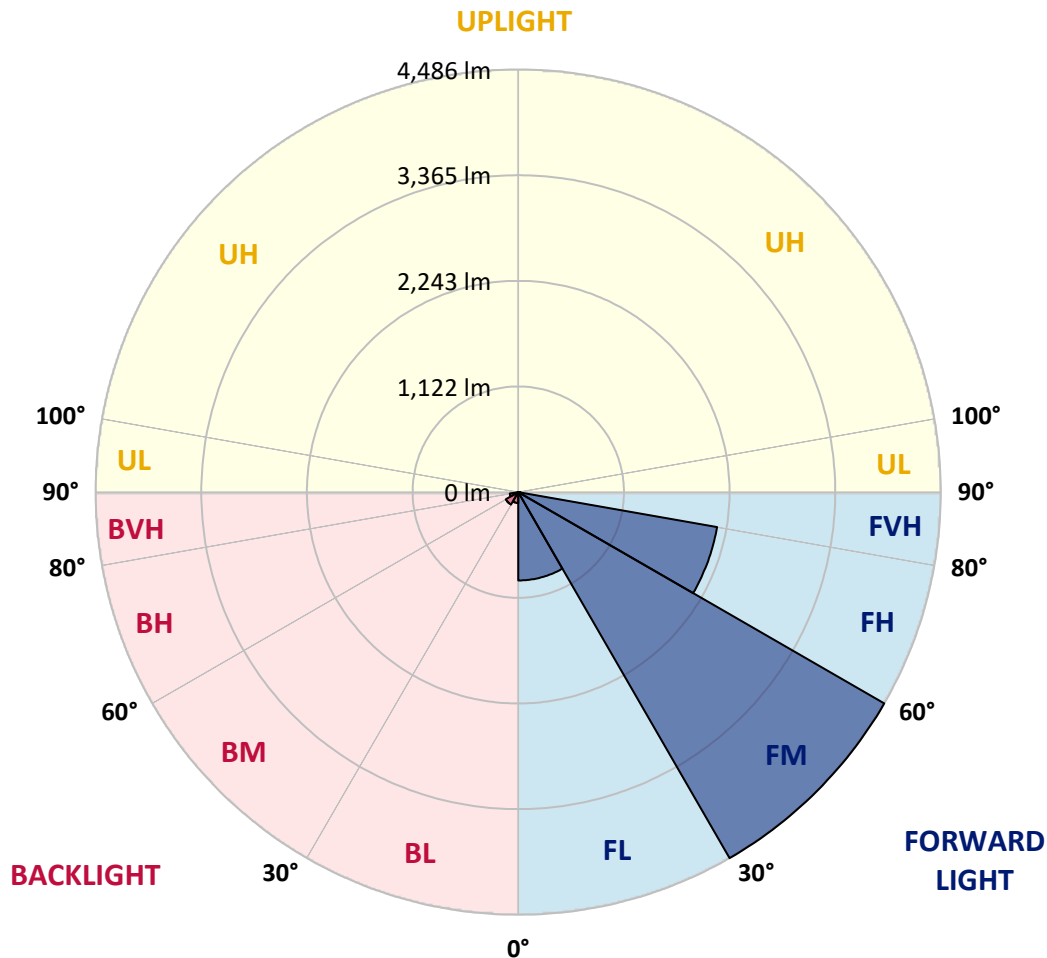
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	937.6	11.8			
FM (30°-60°)	4486.4	56.4			
FH (60°-80°)	2143.6	27.0			G2/5000
FVH (80°-90°)	23.4	0.3			G1/100
BL (0°-30°)	115.2	1.4	B1/500		
BM (30°-60°)	152.4	1.9	B0/220		
BH (60°-80°)	91.1	1.1	B0/110		G0/110
BVH (80°-90°)	2.0	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-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4
2.5°	1156.9	1134.9	1111.9	1105.4	1062.6	1014.4	969.5	925.7	852.3	853.4	803.0
5°	1491.0	1463.6	1445.0	1440.6	1373.8	1290.5	1222.6	1098.8	977.2	949.8	857.8
7.5°	1766.0	1757.2	1729.8	1706.8	1657.5	1555.6	1475.7	1298.2	1113.0	1082.4	924.6
10°	1932.5	1945.6	1957.7	1928.1	1889.8	1816.4	1706.8	1515.1	1267.5	1229.2	1011.2
12.5°	2110.0	2088.0	2095.7	2119.8	2069.4	2053.0	1917.1	1738.6	1448.3	1374.9	1120.7
15°	2156.0	2164.7	2183.4	2253.5	2287.4	2240.3	2123.1	1919.3	1635.6	1533.7	1222.6
17.5°	2186.6	2182.3	2205.3	2310.4	2361.9	2406.8	2333.4	2120.9	1798.8	1707.9	1349.7
20°	2225.0	2200.9	2251.3	2318.1	2437.5	2531.7	2528.4	2323.6	1969.7	1873.3	1475.7
22.5°	2367.4	2348.8	2389.3	2395.9	2479.1	2610.6	2642.4	2489.0	2145.0	2026.7	1611.5
25°	2630.3	2664.3	2616.1	2574.4	2599.6	2686.2	2709.2	2635.8	2321.4	2212.9	1747.3
27.5°	3014.8	3010.5	2915.2	2861.5	2801.2	2790.3	2806.7	2772.7	2460.5	2382.7	1859.1
30°	3427.9	3391.7	3304.1	3174.8	3042.2	2960.1	2937.1	2902.0	2623.7	2510.9	1969.7
32.5°	3756.5	3776.2	3678.7	3510.0	3289.8	3179.2	3068.5	3030.2	2803.4	2703.7	2096.8
35°	4058.9	4032.6	3954.8	3812.4	3615.2	3436.6	3263.5	3181.4	3019.2	2920.6	2237.0
37.5°	4282.3	4315.2	4167.3	4031.5	3835.4	3687.5	3517.7	3338.0	3241.6	3110.2	2407.9
40°	4493.8	4442.3	4342.6	4217.7	4035.9	3923.0	3811.3	3530.8	3478.2	3308.4	2600.7
42.5°	4456.5	4459.8	4405.0	4304.3	4172.8	4108.2	4069.8	3765.3	3693.0	3584.5	2789.2
45°	4304.3	4317.4	4336.0	4286.7	4297.7	4233.1	4336.0	4034.8	3963.6	3848.5	3006.1
47.5°	4136.6	4158.6	4154.2	4244.0	4345.9	4367.8	4625.2	4333.8	4303.2	4239.6	3306.2
50°	3858.4	3867.2	3951.5	4114.7	4253.9	4482.8	4842.2	4660.3	4707.4	4582.5	3663.4
52.5°	3382.9	3414.7	3631.6	3865.0	4145.4	4540.9	4989.0	5145.6	5265.0	5136.8	4006.3
55°	2781.5	2825.3	3038.9	3476.1	3886.9	4453.2	5122.6	5402.0	5644.1	5450.2	4214.4
57.5°	2238.1	2242.5	2434.2	2885.6	3519.9	4281.3	5190.5	5526.8	5852.2	5696.7	4468.6
60°	1705.7	1688.2	1860.2	2251.3	2902.0	3858.4	5020.7	5590.4	6111.9	6022.0	4774.2
62.5°	1097.7	1070.3	1257.6	1638.9	2266.6	3154.0	4681.1	5591.5	6517.2	6483.2	5285.8
65°	543.4	524.7	685.8	1004.6	1568.8	2412.3	4196.9	5570.7	7012.4	7034.3	5784.3
67.5°	287.0	293.6	345.1	509.4	904.9	1704.6	3467.3	5326.4	7265.4	7388.1	5904.8
68°	264.0	266.2	306.7	424.0	785.5	1580.8	3294.2	5255.2	7285.1	7436.3	5838.0
70°	214.7	218.0	232.2	266.2	425.1	1028.7	2541.6	4650.4	6988.3	7126.3	5284.7
72.5°	170.9	180.8	189.5	203.8	249.8	540.1	1580.8	3623.9	5773.3	5788.7	4113.6
75°	130.4	138.0	155.6	167.6	195.0	296.9	752.6	2209.6	3788.3	3602.0	2423.3
77.5°	100.8	107.4	115.0	131.5	163.2	200.5	230.1	937.8	1609.3	1324.5	684.7
80°	60.3	64.6	89.8	103.0	142.4	135.8	90.9	260.7	326.5	257.4	124.9
82.5°	35.1	38.3	51.5	78.9	99.7	73.4	53.7	81.1	80.0	70.1	41.6
85°	1.1	2.2	28.5	47.1	35.1	19.7	32.9	34.0	28.5	26.3	18.6
87.5°	0.0	1.1	7.7	6.6	7.7	4.4	6.6	8.8	11.0	9.9	7.7
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°	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4
2.5°	769.0	744.9	691.3	650.7	606.9	580.6	554.3	537.9	529.1	523.7	528.0
5°	788.8	738.4	651.8	575.1	524.7	490.8	456.8	439.3	422.9	414.1	419.6
7.5°	832.6	757.0	613.5	530.2	471.1	418.5	375.8	341.8	322.1	304.6	307.8
10°	886.3	768.0	614.6	503.9	418.5	335.2	275.0	232.2	208.1	192.8	191.7
12.5°	941.0	810.7	619.0	477.6	353.8	252.0	180.8	149.0	134.7	127.1	127.1
15°	1024.3	849.0	608.0	429.4	268.4	164.3	123.8	112.8	107.4	100.8	101.9
17.5°	1096.6	910.4	602.5	357.1	184.0	118.3	103.0	90.9	85.4	78.9	78.9
20°	1194.1	948.7	573.0	276.1	127.1	98.6	83.3	72.3	63.5	58.1	59.2
22.5°	1282.8	978.3	520.4	188.4	97.5	77.8	61.3	50.4	42.7	36.2	37.2
25°	1379.2	1007.9	443.7	116.1	69.0	48.2	32.9	24.1	16.4	12.1	12.1
27.5°	1448.3	1016.6	344.0	69.0	41.6	21.9	7.7	1.1	0.0	0.0	0.0
30°	1518.4	1019.9	237.7	37.2	16.4	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1598.3	1018.8	149.0	19.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	1659.7	1000.2	71.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1752.8	972.8	21.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1859.1	923.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1954.4	873.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2062.8	810.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2253.5	784.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2502.1	763.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2655.5	702.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2735.5	638.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2853.8	608.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3029.1	610.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3303.0	640.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3454.1	610.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3326.0	488.6	20.8	5.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0
68°	3215.3	449.2	20.8	5.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	2657.7	292.5	19.7	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1935.8	162.1	16.4	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	1126.2	81.1	12.1	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	293.6	40.5	9.9	5.5	3.3	1.1	0.0	0.0	0.0	0.0	0.0
80°	58.1	26.3	8.8	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	27.4	18.6	8.8	6.6	5.5	3.3	1.1	0.0	0.0	0.0	0.0
85°	14.2	8.8	8.8	6.6	6.6	4.4	2.2	0.0	0.0	0.0	0.0
87.5°	6.6	3.3	3.3	3.3	3.3	2.2	1.1	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)