

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: P482170

Luminaire Tested: **IFLD-S-SA2C-827-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482170  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-827-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

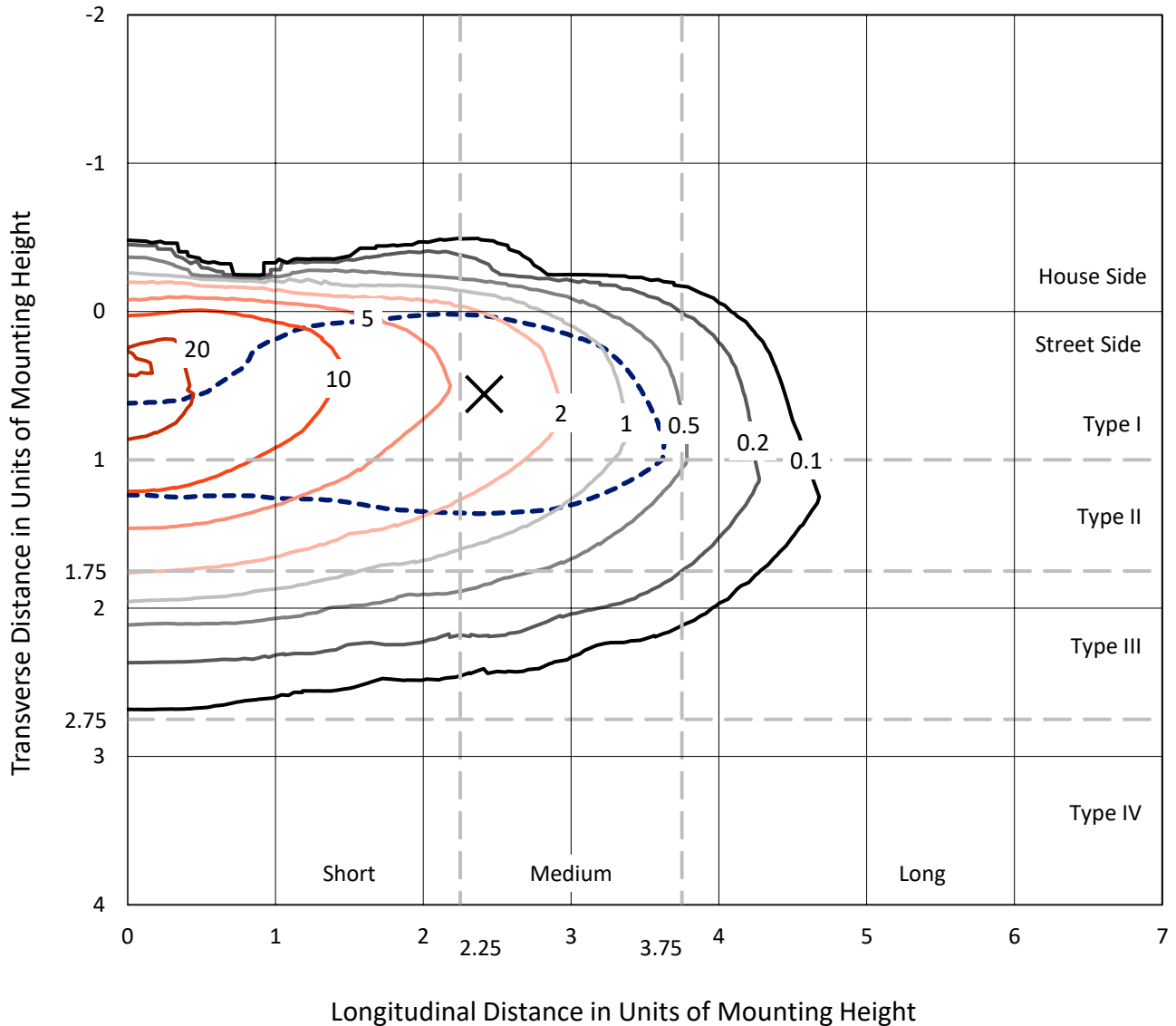
Lumens per Lamp: N/A  
Luminaire Lumens: 8214.5 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2  
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

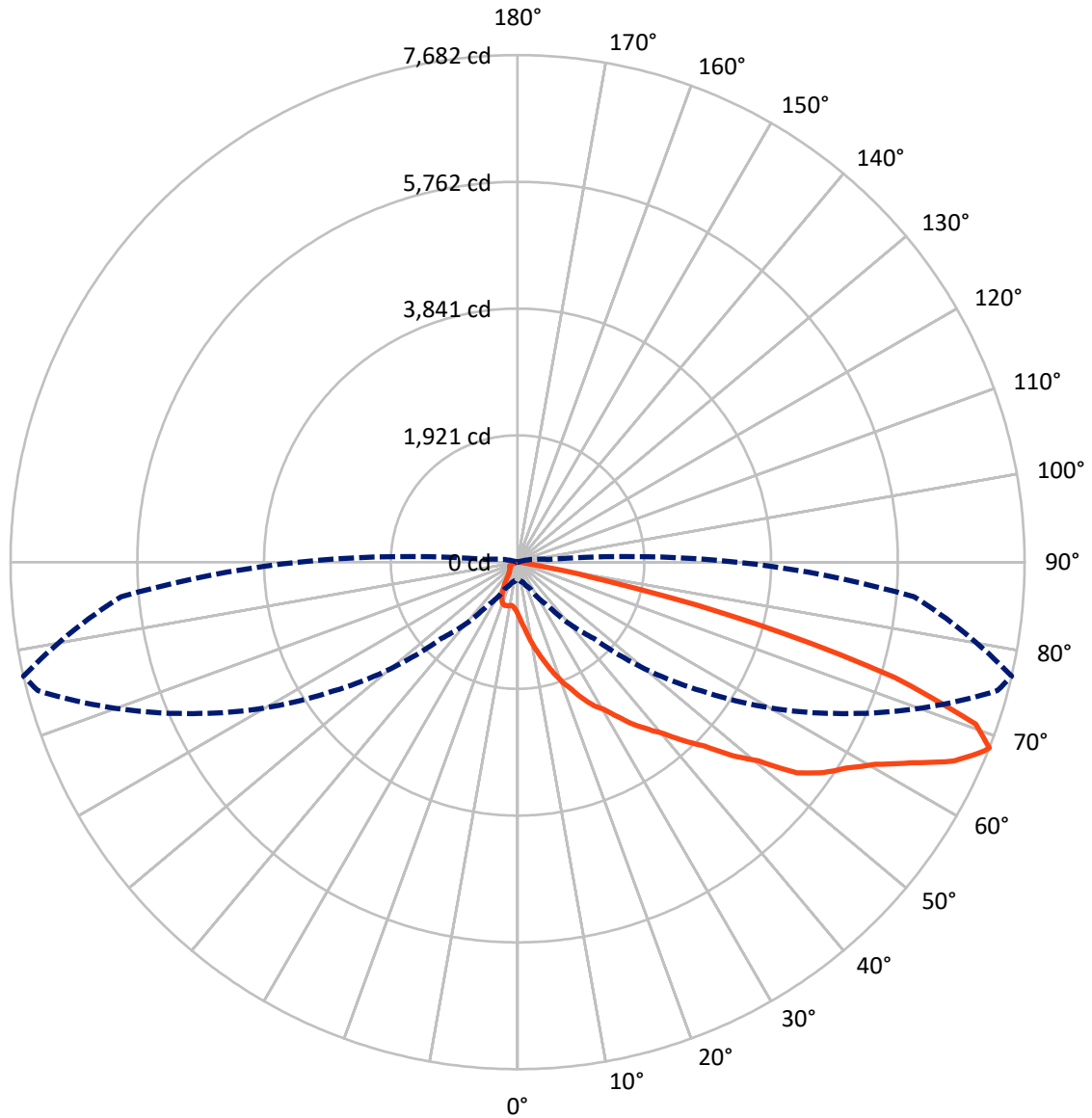
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.3 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	372.5	0.0	372.5
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	7842.0	0.0	7842.0
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	8214.5	0.0	8214.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.9	1.1
10°-20°	338.9	4.1
20°-30°	656.8	8.0
30°-40°	1145.0	13.9
40°-50°	1677.0	20.4
50°-60°	1970.2	24.0
60°-70°	1663.7	20.3
70°-80°	644.9	7.9
80°-90°	26.2	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°	8214.5	100.0
0°-180°	8214.5	100.0



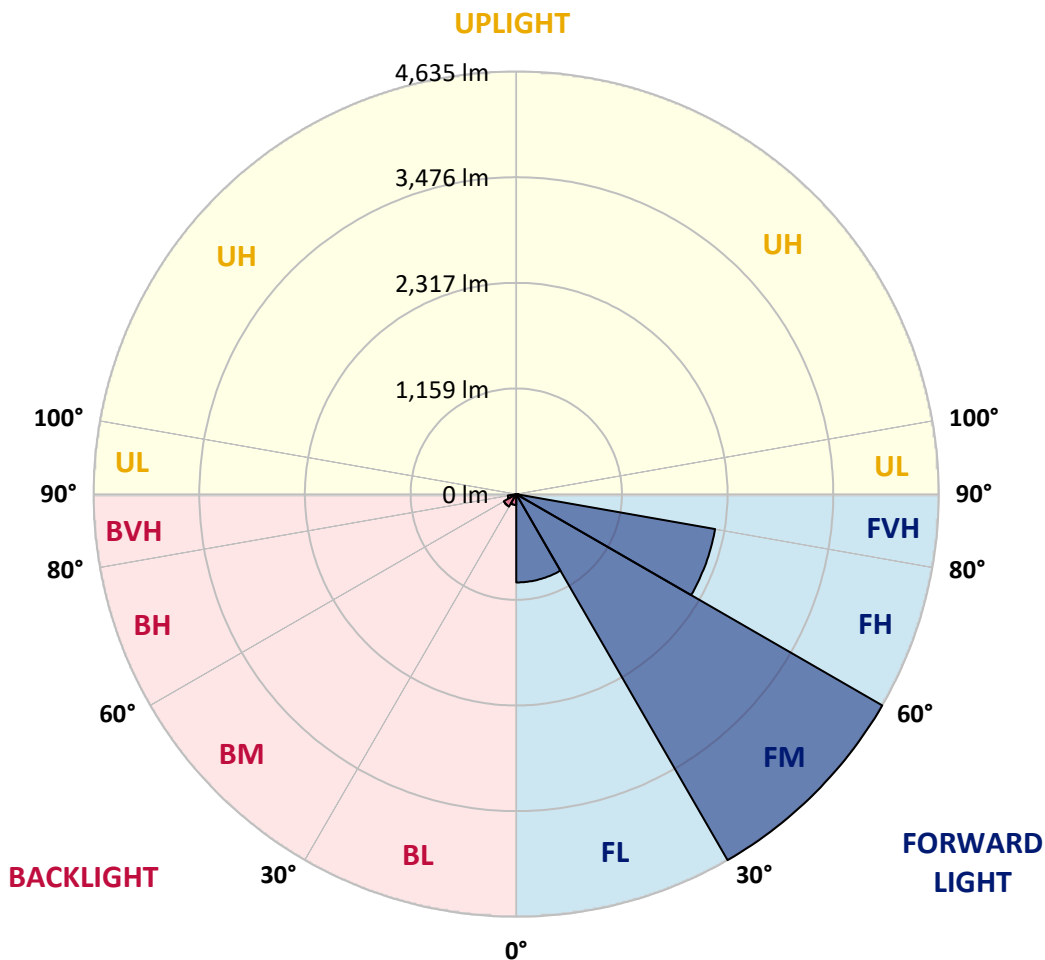
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.6	11.8			
FM (30°-60°)	4634.8	56.4			
FH (60°-80°)	2214.5	27.0			G2/5000
FVH (80°-90°)	24.2	0.3			G1/100
BL (0°-30°)	119.0	1.4	B1/500		
BM (30°-60°)	157.4	1.9	B0/220		
BH (60°-80°)	94.1	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°	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6
2.5°	1195.1	1172.5	1148.7	1141.9	1097.8	1048.0	1001.6	956.3	880.5	881.6	829.6
5°	1540.3	1512.0	1492.8	1488.2	1419.2	1333.2	1263.0	1135.1	1009.5	981.2	886.1
7.5°	1824.3	1815.3	1787.0	1763.2	1712.3	1607.1	1524.4	1341.1	1149.8	1118.1	955.2
10°	1996.4	2010.0	2022.4	1991.8	1952.2	1876.4	1763.2	1565.2	1309.4	1269.8	1044.6
12.5°	2179.7	2157.1	2165.0	2189.9	2137.8	2120.9	1980.5	1796.1	1496.1	1420.3	1157.8
15°	2227.2	2236.3	2255.5	2328.0	2363.1	2314.4	2193.3	1982.8	1689.7	1584.4	1263.0
17.5°	2258.9	2254.4	2278.2	2386.8	2440.0	2486.4	2410.6	2191.0	1858.3	1764.4	1394.3
20°	2298.5	2273.6	2325.7	2394.7	2518.1	2615.4	2612.0	2400.4	2034.8	1935.3	1524.4
22.5°	2445.7	2426.4	2468.3	2475.1	2561.1	2696.9	2729.7	2571.3	2215.9	2093.7	1664.8
25°	2717.3	2752.4	2702.6	2659.6	2685.6	2775.0	2798.8	2722.9	2398.1	2286.1	1805.1
27.5°	3114.5	3110.0	3011.5	2956.1	2893.8	2882.5	2899.5	2864.4	2541.9	2461.5	1920.5
30°	3541.2	3503.8	3413.3	3279.8	3142.8	3057.9	3034.2	2998.0	2710.5	2593.9	2034.8
32.5°	3880.7	3901.1	3800.3	3626.1	3398.6	3284.3	3170.0	3130.4	2896.1	2793.1	2166.1
35°	4193.1	4165.9	4085.5	3938.4	3734.7	3550.2	3371.4	3286.5	3119.0	3017.2	2311.0
37.5°	4423.9	4457.9	4305.1	4164.8	3962.2	3809.4	3634.0	3448.4	3348.8	3213.0	2487.5
40°	4642.4	4589.2	4486.2	4357.2	4169.3	4052.7	3937.3	3647.6	3593.2	3417.8	2686.7
42.5°	4603.9	4607.3	4550.7	4446.6	4310.8	4244.0	4204.4	3889.8	3815.1	3703.0	2881.4
45°	4446.6	4460.1	4479.4	4428.5	4439.8	4373.0	4479.4	4168.2	4094.6	3975.8	3105.5
47.5°	4273.4	4296.0	4291.5	4384.3	4489.6	4512.2	4778.2	4477.1	4445.4	4379.8	3415.6
50°	3985.9	3995.0	4082.1	4250.8	4394.5	4631.0	5002.2	4814.4	4863.0	4734.0	3784.5
52.5°	3494.8	3527.6	3751.7	3992.7	4282.5	4691.0	5153.9	5315.7	5439.1	5306.7	4138.7
55°	2873.5	2918.7	3139.4	3591.0	4015.4	4600.5	5292.0	5580.6	5830.7	5630.4	4353.8
57.5°	2312.1	2316.6	2514.7	2981.0	3636.2	4422.8	5362.1	5709.6	6045.7	5885.0	4616.3
60°	1762.1	1744.0	1921.7	2325.7	2998.0	3985.9	5186.7	5775.2	6313.9	6221.1	4932.1
62.5°	1134.0	1105.7	1299.2	1693.1	2341.5	3258.2	4835.9	5776.3	6732.7	6697.6	5460.6
65°	561.3	542.1	708.5	1037.8	1620.6	2492.1	4335.7	5754.8	7244.2	7266.8	5975.5
67.5°	296.5	303.3	356.5	526.3	934.8	1761.0	3581.9	5502.5	7505.6	7632.4	6100.0
68°	272.7	275.0	316.9	438.0	811.4	1633.1	3403.1	5428.9	7526.0	7682.2	6031.0
70°	221.8	225.2	239.9	275.0	439.1	1062.7	2625.6	4804.2	7219.3	7361.9	5459.5
72.5°	176.5	186.7	195.8	210.5	258.0	557.9	1633.1	3743.8	5964.2	5980.1	4249.6
75°	134.7	142.6	160.7	173.2	201.4	306.7	777.5	2282.7	3913.5	3721.1	2503.4
77.5°	104.1	110.9	118.8	135.8	168.6	207.1	237.7	968.8	1662.5	1368.3	707.3
80°	62.2	66.8	92.8	106.4	147.1	140.3	93.9	269.4	337.3	266.0	129.0
82.5°	36.2	39.6	53.2	81.5	103.0	75.8	55.5	83.7	82.6	72.4	43.0
85°	1.1	2.3	29.4	48.7	36.2	20.4	34.0	35.1	29.4	27.2	19.2
87.5°	0.0	1.1	7.9	6.8	7.9	4.5	6.8	9.1	11.3	10.2	7.9
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°	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6
2.5°	794.5	769.6	714.1	672.2	627.0	599.8	572.7	555.7	546.6	541.0	545.5
5°	814.8	762.8	673.4	594.2	542.1	507.0	471.9	453.8	436.8	427.8	433.5
7.5°	860.1	782.0	633.8	547.8	486.6	432.3	388.2	353.1	332.7	314.6	318.0
10°	915.6	793.3	634.9	520.6	432.3	346.3	284.1	239.9	215.0	199.2	198.1
12.5°	972.2	837.5	639.4	493.4	365.5	260.3	186.7	153.9	139.2	131.3	131.3
15°	1058.2	877.1	628.1	443.6	277.3	169.8	127.9	116.6	110.9	104.1	105.3
17.5°	1132.9	940.5	622.5	368.9	190.1	122.2	106.4	93.9	88.3	81.5	81.5
20°	1233.6	980.1	591.9	285.2	131.3	101.9	86.0	74.7	65.6	60.0	61.1
22.5°	1325.3	1010.6	537.6	194.7	100.7	80.4	63.4	52.1	44.1	37.3	38.5
25°	1424.8	1041.2	458.4	120.0	71.3	49.8	34.0	24.9	17.0	12.4	12.4
27.5°	1496.1	1050.2	355.4	71.3	43.0	22.6	7.9	1.1	0.0	0.0	0.0
30°	1568.6	1053.6	245.6	38.5	17.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1651.2	1052.5	153.9	20.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	1714.6	1033.3	73.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1810.8	1005.0	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1920.5	954.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2019.0	902.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2131.0	837.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2328.0	810.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2584.9	788.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2743.3	725.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2825.9	659.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2948.2	628.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3129.2	630.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3412.2	662.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3568.3	630.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3435.9	504.8	21.5	5.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
68°	3321.6	464.0	21.5	5.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	2745.6	302.2	20.4	5.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1999.8	167.5	17.0	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	1163.4	83.7	12.4	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	303.3	41.9	10.2	5.7	3.4	1.1	0.0	0.0	0.0	0.0	0.0
80°	60.0	27.2	9.1	6.8	4.5	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	28.3	19.2	9.1	6.8	5.7	3.4	1.1	0.0	0.0	0.0	0.0
85°	14.7	9.1	9.1	6.8	6.8	4.5	2.3	0.0	0.0	0.0	0.0
87.5°	6.8	3.4	3.4	3.4	3.4	2.3	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)