

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: P482213

Luminaire Tested: **IFLD-S-SA3B-830-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482213  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-830-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

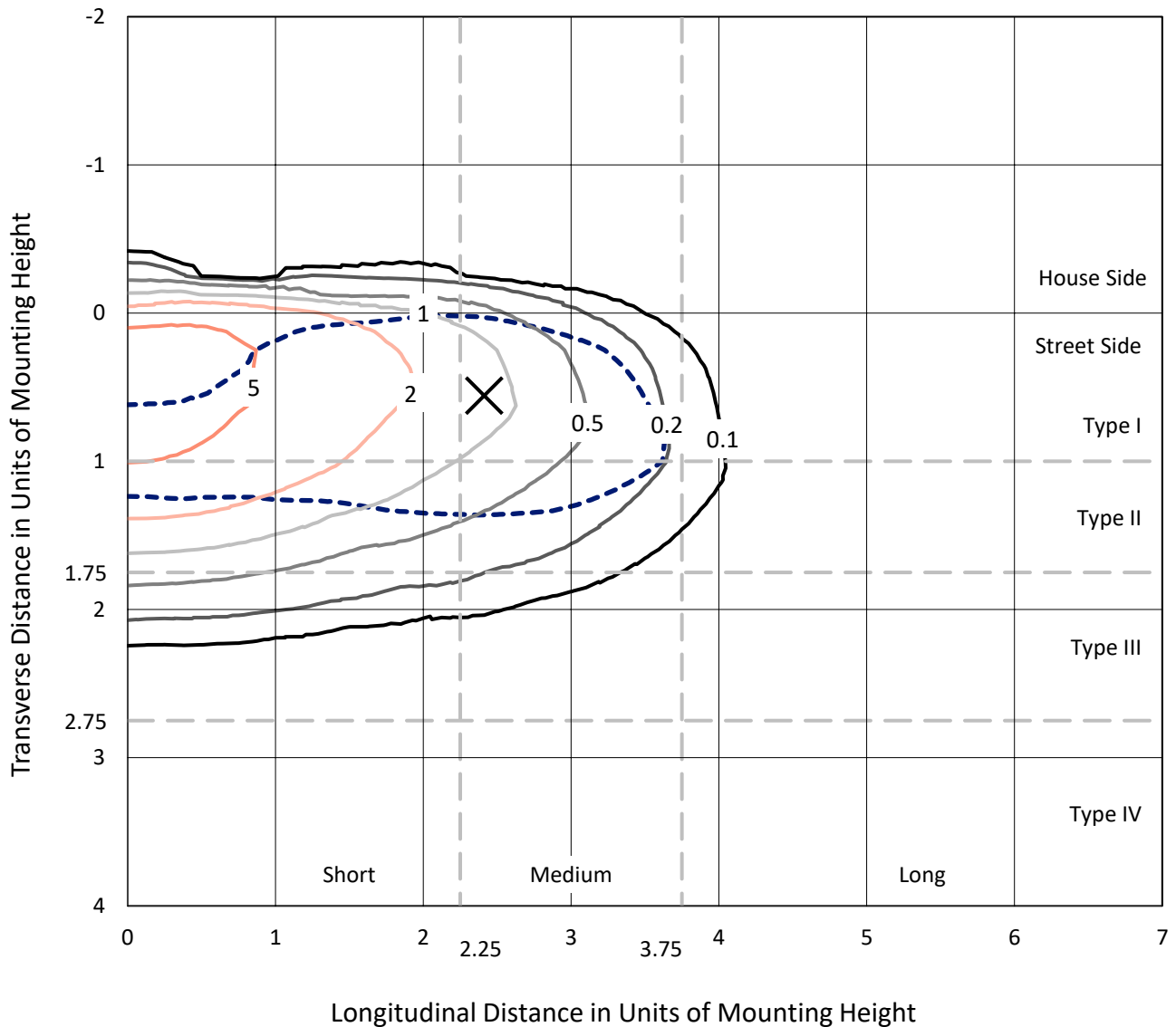
Lumens per Lamp: N/A  
Luminaire Lumens: 10630.2 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4  
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

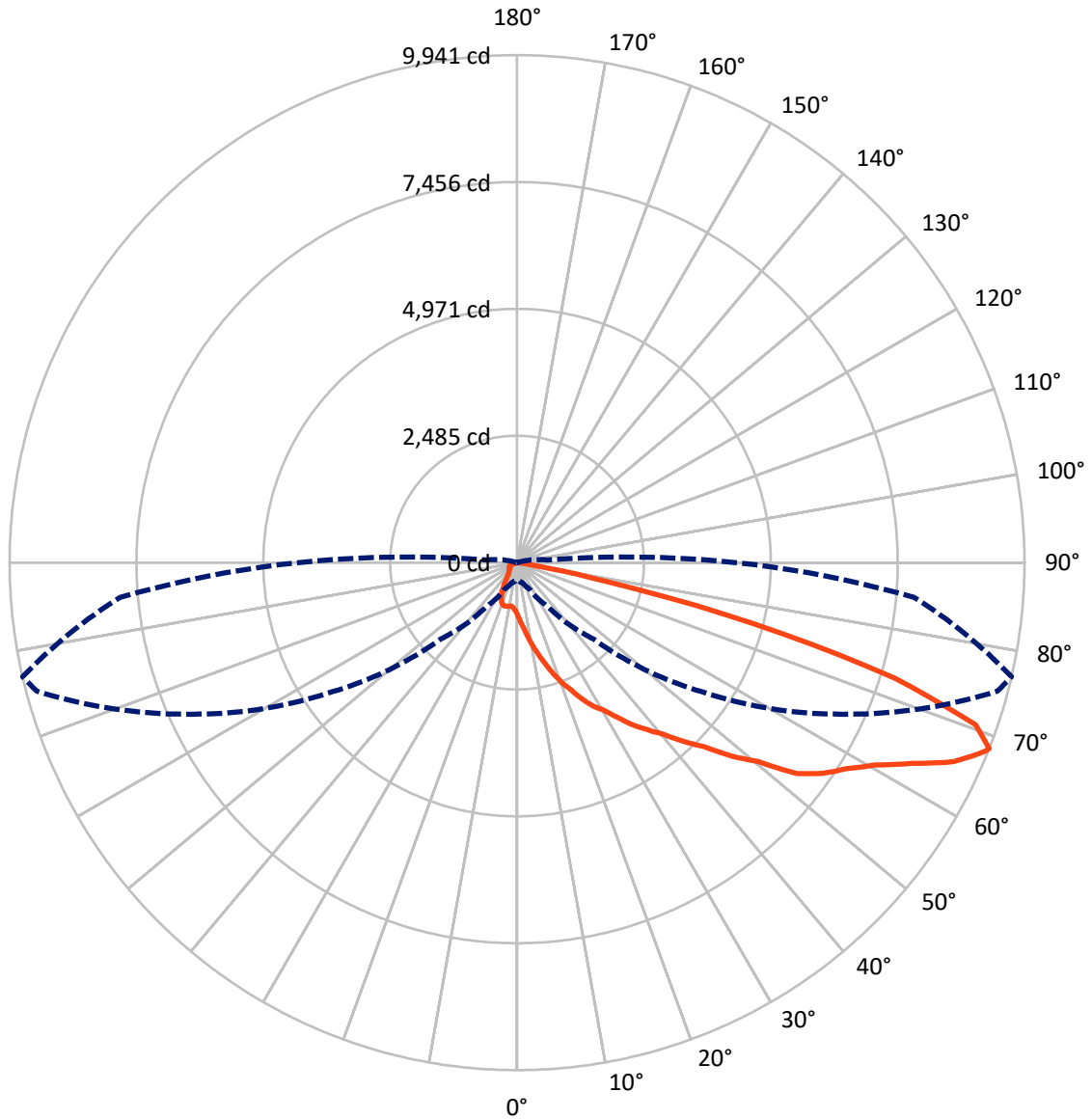
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 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	482.1	0.0	482.1
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	10148.1	0.0	10148.1
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	10630.2	0.0	10630.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.9	1.1
10°-20°	438.6	4.1
20°-30°	849.9	8.0
30°-40°	1481.7	13.9
40°-50°	2170.1	20.4
50°-60°	2549.6	24.0
60°-70°	2152.9	20.3
70°-80°	834.5	7.9
80°-90°	33.9	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°	10630.2	100.0
0°-180°	10630.2	100.0

**Coefficient of Utilization**



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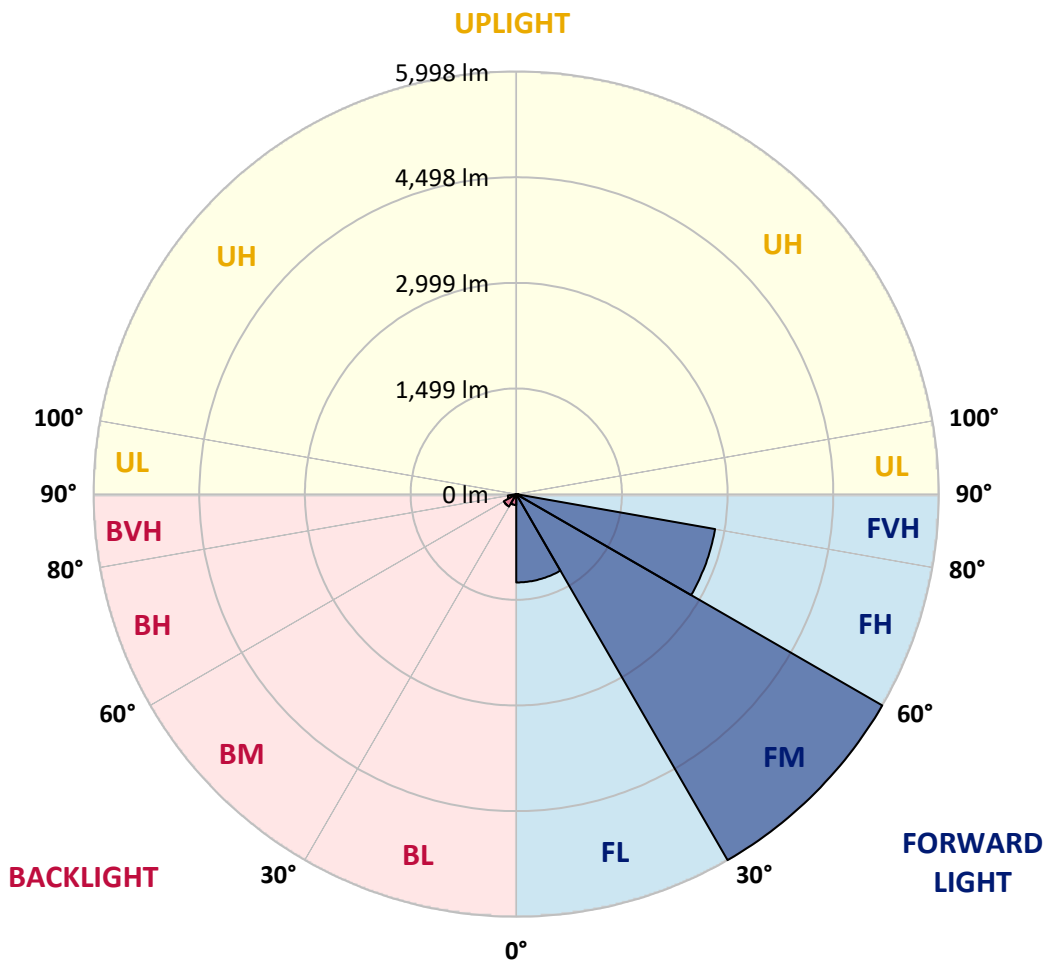
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.4	11.8			
FM (30°-60°)	5997.7	56.4			
FH (60°-80°)	2865.7	27.0			G2/5000
FVH (80°-90°)	31.3	0.3			G1/100
BL (0°-30°)	154.0	1.4	B1/500		
BM (30°-60°)	203.7	1.9	B0/220		
BH (60°-80°)	121.7	1.1	B1/500		G1/500
BVH (80°-90°)	2.6	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°	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9
2.5°	1546.6	1517.3	1486.5	1477.7	1420.6	1356.2	1296.1	1237.5	1139.4	1140.9	1073.5
5°	1993.2	1956.6	1931.7	1925.9	1836.5	1725.2	1634.4	1468.9	1306.4	1269.8	1146.7
7.5°	2360.8	2349.1	2312.5	2281.8	2215.8	2079.6	1972.7	1735.5	1488.0	1447.0	1236.1
10°	2583.4	2601.0	2617.1	2577.6	2526.3	2428.2	2281.8	2025.5	1694.5	1643.2	1351.8
12.5°	2820.7	2791.4	2801.7	2833.9	2766.5	2744.5	2562.9	2324.2	1936.1	1838.0	1498.2
15°	2882.2	2893.9	2918.8	3012.6	3058.0	2995.0	2838.3	2565.9	2186.6	2050.4	1634.4
17.5°	2923.2	2917.4	2948.1	3088.7	3157.5	3217.6	3119.5	2835.3	2404.8	2283.2	1804.3
20°	2974.5	2942.3	3009.6	3099.0	3258.6	3384.5	3380.2	3106.3	2633.2	2504.4	1972.7
22.5°	3164.9	3140.0	3194.2	3202.9	3314.2	3490.0	3532.5	3327.4	2867.6	2709.4	2154.3
25°	3516.4	3561.8	3497.3	3441.7	3475.3	3591.0	3621.8	3523.7	3103.4	2958.4	2335.9
27.5°	4030.4	4024.6	3897.1	3825.4	3744.8	3730.2	3752.1	3706.7	3289.4	3185.4	2485.3
30°	4582.5	4534.2	4417.0	4244.2	4067.0	3957.2	3926.4	3879.6	3507.6	3356.7	2633.2
32.5°	5021.9	5048.3	4917.9	4692.4	4398.0	4250.1	4102.2	4050.9	3747.8	3614.5	2803.1
35°	5426.1	5391.0	5287.0	5096.6	4833.0	4594.3	4362.9	4253.0	4036.3	3904.5	2990.6
37.5°	5724.9	5768.8	5571.1	5389.5	5127.3	4929.6	4702.6	4462.4	4333.6	4157.8	3219.1
40°	6007.5	5938.7	5805.4	5638.5	5395.4	5244.5	5095.1	4720.2	4649.9	4422.9	3476.8
42.5°	5957.7	5962.1	5888.9	5754.2	5578.4	5492.0	5440.8	5033.6	4937.0	4792.0	3728.7
45°	5754.2	5771.7	5796.6	5730.7	5745.4	5659.0	5796.6	5393.9	5298.7	5144.9	4018.7
47.5°	5530.1	5559.4	5553.5	5673.6	5809.8	5839.1	6183.3	5793.7	5752.7	5667.8	4420.0
50°	5158.1	5169.8	5282.6	5500.8	5686.8	5992.9	6473.3	6230.1	6293.1	6126.2	4897.4
52.5°	4522.5	4565.0	4854.9	5166.9	5541.8	6070.5	6669.5	6878.9	7038.6	6867.2	5355.8
55°	3718.5	3777.0	4062.6	4647.0	5196.2	5953.3	6848.2	7221.6	7545.3	7286.1	5634.1
57.5°	2992.1	2997.9	3254.2	3857.6	4705.6	5723.4	6939.0	7388.6	7823.6	7615.6	5973.9
60°	2280.3	2256.9	2486.8	3009.6	3879.6	5158.1	6712.0	7473.5	8170.7	8050.6	6382.5
62.5°	1467.5	1430.9	1681.3	2190.9	3030.1	4216.4	6258.0	7475.0	8712.5	8667.1	7066.4
65°	726.4	701.5	916.8	1343.0	2097.2	3224.9	5610.6	7447.2	9374.5	9403.8	7732.8
67.5°	383.7	392.5	461.3	681.0	1209.7	2278.8	4635.3	7120.6	9712.8	9876.8	7893.9
68°	353.0	355.9	410.1	566.8	1050.1	2113.3	4403.9	7025.4	9739.2	9941.3	7804.5
70°	287.0	291.4	310.5	355.9	568.2	1375.2	3397.7	6217.0	9342.3	9526.8	7064.9
72.5°	228.5	241.6	253.4	272.4	333.9	722.0	2113.3	4844.7	7718.1	7738.6	5499.3
75°	174.3	184.5	208.0	224.1	260.7	396.9	1006.1	2954.0	5064.4	4815.4	3239.6
77.5°	134.7	143.5	153.8	175.7	218.2	268.0	307.6	1253.6	2151.4	1770.6	915.3
80°	80.5	86.4	120.1	137.7	190.4	181.6	121.6	348.6	436.4	344.2	167.0
82.5°	46.9	51.3	68.8	105.4	133.3	98.1	71.8	108.4	106.9	93.7	55.7
85°	1.5	2.9	38.1	63.0	46.9	26.4	43.9	45.4	38.1	35.1	24.9
87.5°	0.0	1.5	10.3	8.8	10.3	5.9	8.8	11.7	14.6	13.2	10.3
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°	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9	1017.9
2.5°	1028.1	995.9	924.1	869.9	811.4	776.2	741.1	719.1	707.4	700.0	705.9
5°	1054.5	987.1	871.4	768.9	701.5	656.1	610.7	587.3	565.3	553.6	560.9
7.5°	1113.0	1012.0	820.1	708.8	629.8	559.5	502.3	456.9	430.6	407.1	411.5
10°	1184.8	1026.6	821.6	673.7	559.5	448.1	367.6	310.5	278.3	257.8	256.3
12.5°	1258.0	1083.8	827.5	638.5	473.0	336.8	241.6	199.2	180.1	169.9	169.9
15°	1369.3	1135.0	812.8	574.1	358.8	219.7	165.5	150.8	143.5	134.7	136.2
17.5°	1466.0	1217.0	805.5	477.4	246.0	158.2	137.7	121.6	114.2	105.4	105.4
20°	1596.3	1268.3	766.0	369.1	169.9	131.8	111.3	96.7	84.9	77.6	79.1
22.5°	1715.0	1307.8	695.7	251.9	130.3	104.0	82.0	67.4	57.1	48.3	49.8
25°	1843.9	1347.4	593.1	155.2	92.3	64.4	43.9	32.2	22.0	16.1	16.1
27.5°	1936.1	1359.1	459.9	92.3	55.7	29.3	10.3	1.5	0.0	0.0	0.0
30°	2029.8	1363.5	317.8	49.8	22.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2136.8	1362.0	199.2	26.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	2218.8	1337.1	95.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2343.3	1300.5	29.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2485.3	1234.6	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2612.7	1167.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2757.7	1083.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3012.6	1048.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3345.0	1020.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3550.0	938.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3657.0	853.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3815.1	812.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4049.4	815.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4415.6	856.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4617.7	815.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4446.3	653.2	27.8	7.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	4298.4	600.5	27.8	7.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	3553.0	391.0	26.4	7.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2587.8	216.8	22.0	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	1505.5	108.4	16.1	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	392.5	54.2	13.2	7.3	4.4	1.5	0.0	0.0	0.0	0.0	0.0
80°	77.6	35.1	11.7	8.8	5.9	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	36.6	24.9	11.7	8.8	7.3	4.4	1.5	0.0	0.0	0.0	0.0
85°	19.0	11.7	11.7	8.8	8.8	5.9	2.9	0.0	0.0	0.0	0.0
87.5°	8.8	4.4	4.4	4.4	4.4	2.9	1.5	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)