

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: P481903

Luminaire Tested: **IFLD-S-SA3D-722-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481903  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-722-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

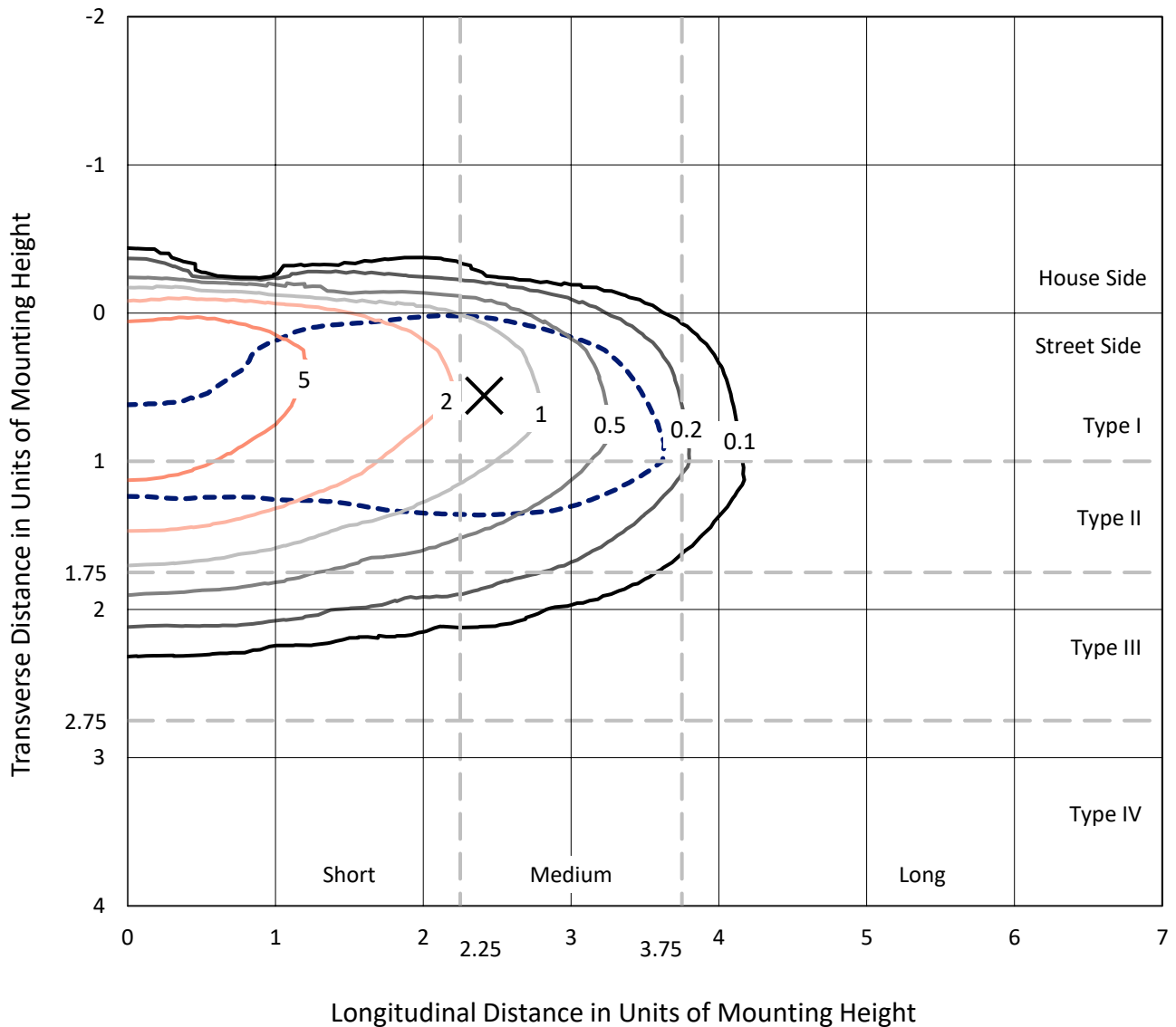
Lumens per Lamp: N/A  
Luminaire Lumens: 13497.6 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 184.1  
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

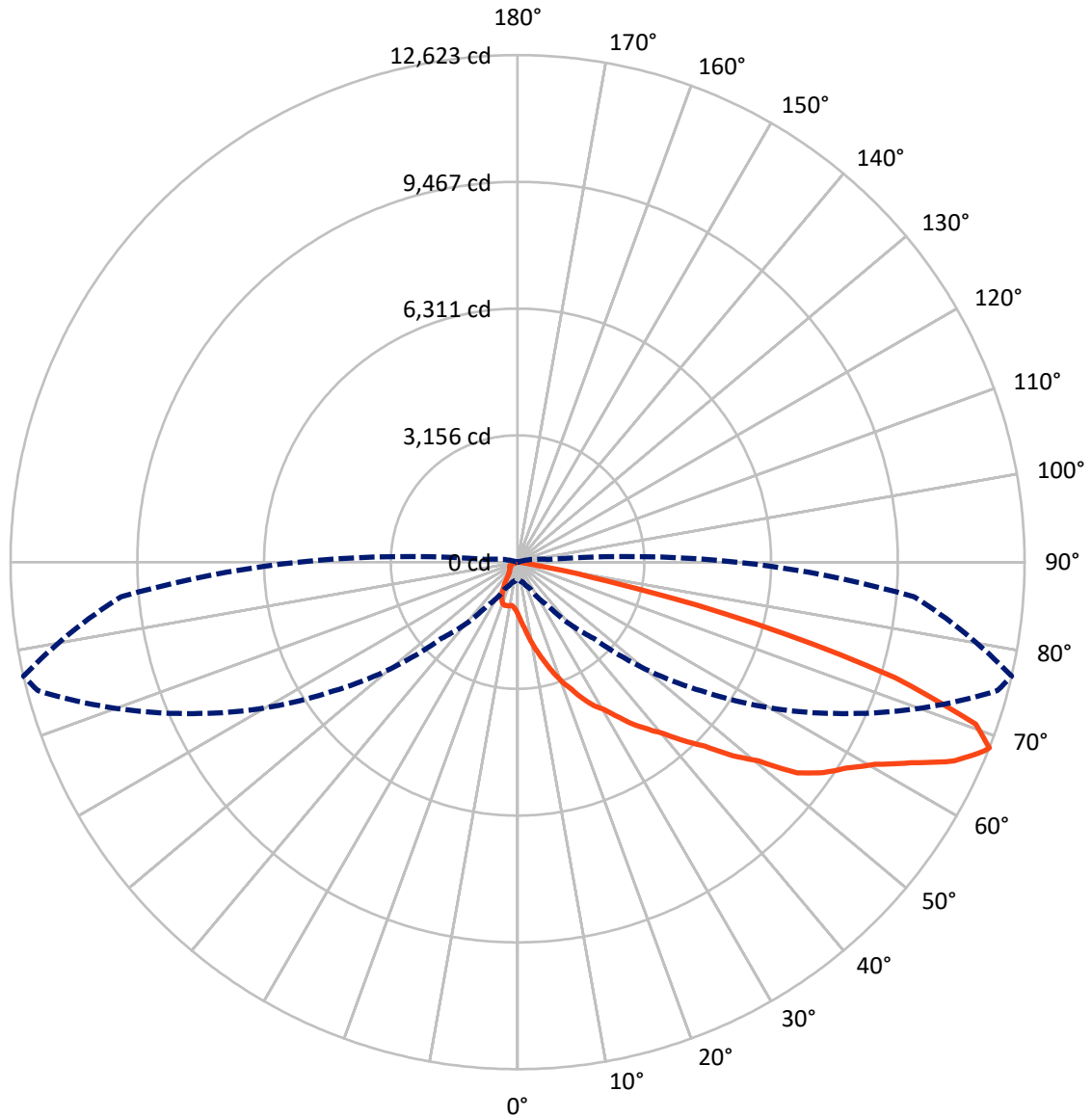
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.6 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	612.1	0.0	612.1
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	12885.5	0.0	12885.5
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	13497.6	0.0	13497.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.0	1.1
10°-20°	556.9	4.1
20°-30°	1079.2	8.0
30°-40°	1881.4	13.9
40°-50°	2755.5	20.4
50°-60°	3237.3	24.0
60°-70°	2733.6	20.3
70°-80°	1059.6	7.9
80°-90°	43.1	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°	13497.6	100.0
0°-180°	13497.6	100.0

**Coefficient of Utilization**

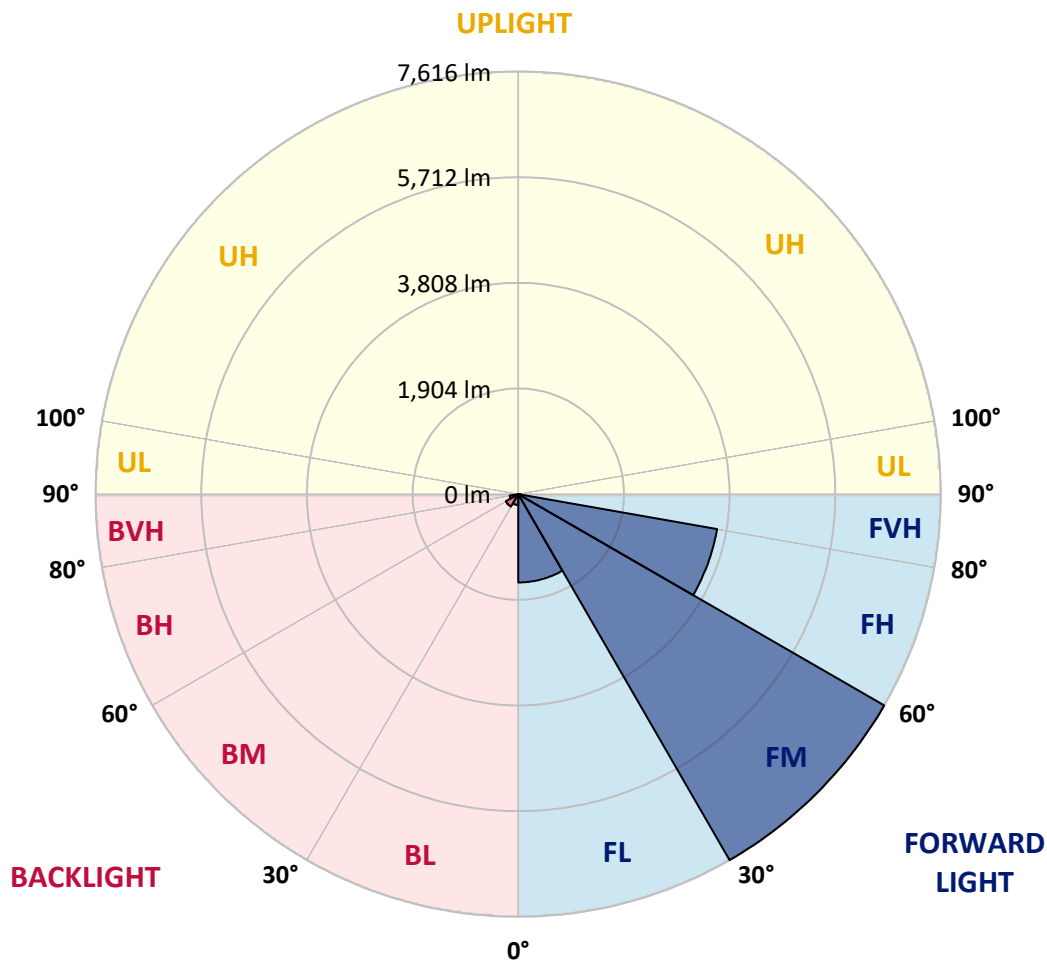


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1591.5	11.8			
FM (30°-60°)	7615.6	56.4			
FH (60°-80°)	3638.7	27.0			G2/5000
FVH (80°-90°)	39.8	0.3			G1/100
BL (0°-30°)	195.6	1.4	B1/500		
BM (30°-60°)	258.6	1.9	B1/1000		
BH (60°-80°)	154.6	1.1	B1/500		G1/500
BVH (80°-90°)	3.3	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°	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4
2.5°	1963.7	1926.5	1887.5	1876.3	1803.8	1722.0	1645.7	1571.4	1446.8	1448.6	1363.1
5°	2530.9	2484.4	2452.8	2445.4	2331.9	2190.6	2075.3	1865.2	1658.8	1612.3	1456.1
7.5°	2997.7	2982.8	2936.3	2897.2	2813.6	2640.6	2504.9	2203.6	1889.3	1837.3	1569.5
10°	3280.3	3302.6	3323.1	3272.9	3207.8	3083.2	2897.2	2571.8	2151.5	2086.5	1716.4
12.5°	3581.6	3544.4	3557.4	3598.3	3512.8	3484.9	3254.3	2951.2	2458.4	2333.8	1902.4
15°	3659.7	3674.5	3706.2	3825.2	3882.8	3802.9	3603.9	3258.0	2776.4	2603.4	2075.3
17.5°	3711.7	3704.3	3743.3	3921.9	4009.3	4085.5	3960.9	3600.2	3053.4	2899.1	2291.0
20°	3776.8	3735.9	3821.4	3934.9	4137.6	4297.5	4291.9	3944.2	3343.5	3179.9	2504.9
22.5°	4018.6	3987.0	4055.8	4066.9	4208.2	4431.4	4485.3	4225.0	3641.1	3440.2	2735.5
25°	4464.9	4522.5	4440.7	4370.0	4412.8	4559.7	4598.8	4474.2	3940.5	3756.4	2966.0
27.5°	5117.6	5110.1	4948.4	4857.2	4755.0	4736.4	4764.3	4706.6	4176.6	4044.6	3155.7
30°	5818.6	5757.3	5608.5	5389.1	5164.1	5024.6	4985.6	4926.0	4453.7	4262.2	3343.5
32.5°	6376.5	6410.0	6244.5	5958.1	5584.3	5396.5	5208.7	5143.6	4758.7	4589.5	3559.2
35°	6889.8	6845.1	6713.1	6471.4	6136.6	5833.5	5539.7	5400.2	5125.0	4957.7	3797.3
37.5°	7269.1	7324.9	7073.9	6843.3	6510.4	6259.4	5971.1	5666.2	5502.5	5279.4	4087.4
40°	7628.0	7540.6	7371.4	7159.4	6850.7	6659.2	6469.5	5993.4	5904.2	5616.0	4414.7
42.5°	7564.8	7570.4	7477.4	7306.3	7083.2	6973.4	6908.4	6391.4	6268.7	6084.6	4734.5
45°	7306.3	7328.6	7360.2	7276.6	7295.2	7185.4	7360.2	6848.9	6728.0	6532.7	5102.7
47.5°	7021.8	7059.0	7051.6	7204.0	7377.0	7414.2	7851.2	7356.5	7304.5	7196.6	5612.2
50°	6549.5	6564.3	6707.5	6984.6	7220.8	7609.4	8219.4	7910.7	7990.6	7778.6	6218.5
52.5°	5742.4	5796.3	6164.5	6560.6	7036.7	7708.0	8468.6	8734.5	8937.2	8719.6	6800.5
55°	4721.5	4795.9	5158.5	5900.5	6597.8	7559.2	8695.4	9169.6	9580.6	9251.4	7153.8
57.5°	3799.1	3806.6	4132.0	4898.1	5974.9	7267.3	8810.7	9381.6	9933.9	9669.8	7585.3
60°	2895.4	2865.6	3157.6	3821.4	4926.0	6549.5	8522.5	9489.5	10374.6	10222.1	8104.1
62.5°	1863.3	1816.8	2134.8	2781.9	3847.5	5353.7	7946.0	9491.3	11062.7	11005.0	8972.5
65°	922.4	890.7	1164.1	1705.2	2662.9	4094.8	7124.1	9456.0	11903.2	11940.4	9818.6
67.5°	487.2	498.4	585.8	864.7	1536.0	2893.5	5885.6	9041.3	12332.8	12541.0	10023.2
68°	448.2	451.9	520.7	719.7	1333.3	2683.4	5591.8	8920.4	12366.2	12622.9	9909.7
70°	364.5	370.1	394.2	451.9	721.5	1746.2	4314.2	7893.9	11862.3	12096.6	8970.6
72.5°	290.1	306.8	321.7	345.9	424.0	916.8	2683.4	6151.5	9800.0	9826.1	6982.7
75°	221.3	234.3	264.1	284.5	331.0	503.9	1277.5	3750.8	6430.4	6114.3	4113.4
77.5°	171.1	182.2	195.3	223.2	277.1	340.3	390.5	1591.8	2731.7	2248.2	1162.2
80°	102.3	109.7	152.5	174.8	241.7	230.6	154.3	442.6	554.2	437.0	212.0
82.5°	59.5	65.1	87.4	133.9	169.2	124.6	91.1	137.6	135.7	119.0	70.7
85°	1.9	3.7	48.3	80.0	59.5	33.5	55.8	57.6	48.3	44.6	31.6
87.5°	0.0	1.9	13.0	11.2	13.0	7.4	11.2	14.9	18.6	16.7	13.0
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°	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4	1292.4
2.5°	1305.4	1264.5	1173.4	1104.6	1030.2	985.6	941.0	913.1	898.2	888.9	896.3
5°	1338.9	1253.4	1106.5	976.3	890.7	833.1	775.4	745.7	717.8	702.9	712.2
7.5°	1413.3	1285.0	1041.4	900.0	799.6	710.4	637.8	580.2	546.7	517.0	522.5
10°	1504.4	1303.6	1043.2	855.4	710.4	569.0	466.8	394.2	353.3	327.3	325.4
12.5°	1597.4	1376.1	1050.7	810.8	600.6	427.7	306.8	252.9	228.7	215.7	215.7
15°	1738.7	1441.2	1032.1	729.0	455.6	278.9	210.1	191.5	182.2	171.1	172.9
17.5°	1861.4	1545.3	1022.8	606.2	312.4	200.8	174.8	154.3	145.0	133.9	133.9
20°	2026.9	1610.4	972.6	468.6	215.7	167.4	141.3	122.7	107.9	98.6	100.4
22.5°	2177.6	1660.6	883.3	319.8	165.5	132.0	104.1	85.5	72.5	61.4	63.2
25°	2341.2	1710.8	753.1	197.1	117.2	81.8	55.8	40.9	27.9	20.5	20.5
27.5°	2458.4	1725.7	583.9	117.2	70.7	37.2	13.0	1.9	0.0	0.0	0.0
30°	2577.4	1731.3	403.5	63.2	27.9	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2713.1	1729.4	252.9	33.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	2817.3	1697.8	120.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	2975.3	1651.3	37.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3155.7	1567.6	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3317.5	1482.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3501.6	1376.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3825.2	1331.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4247.3	1296.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4507.6	1192.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4643.4	1084.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4844.2	1032.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5141.8	1035.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5606.7	1087.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5863.3	1035.8	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5645.7	829.4	35.3	9.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0
68°	5457.9	762.4	35.3	9.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	4511.4	496.5	33.5	9.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3285.9	275.2	27.9	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	1911.7	137.6	20.5	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	498.4	68.8	16.7	9.3	5.6	1.9	0.0	0.0	0.0	0.0	0.0
80°	98.6	44.6	14.9	11.2	7.4	3.7	0.0	0.0	0.0	0.0	0.0
82.5°	46.5	31.6	14.9	11.2	9.3	5.6	1.9	0.0	0.0	0.0	0.0
85°	24.2	14.9	14.9	11.2	11.2	7.4	3.7	0.0	0.0	0.0	0.0
87.5°	11.2	5.6	5.6	5.6	5.6	3.7	1.9	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)