

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: P481839

Luminaire Tested: **IFLD-S-SA6C-830-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481839
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

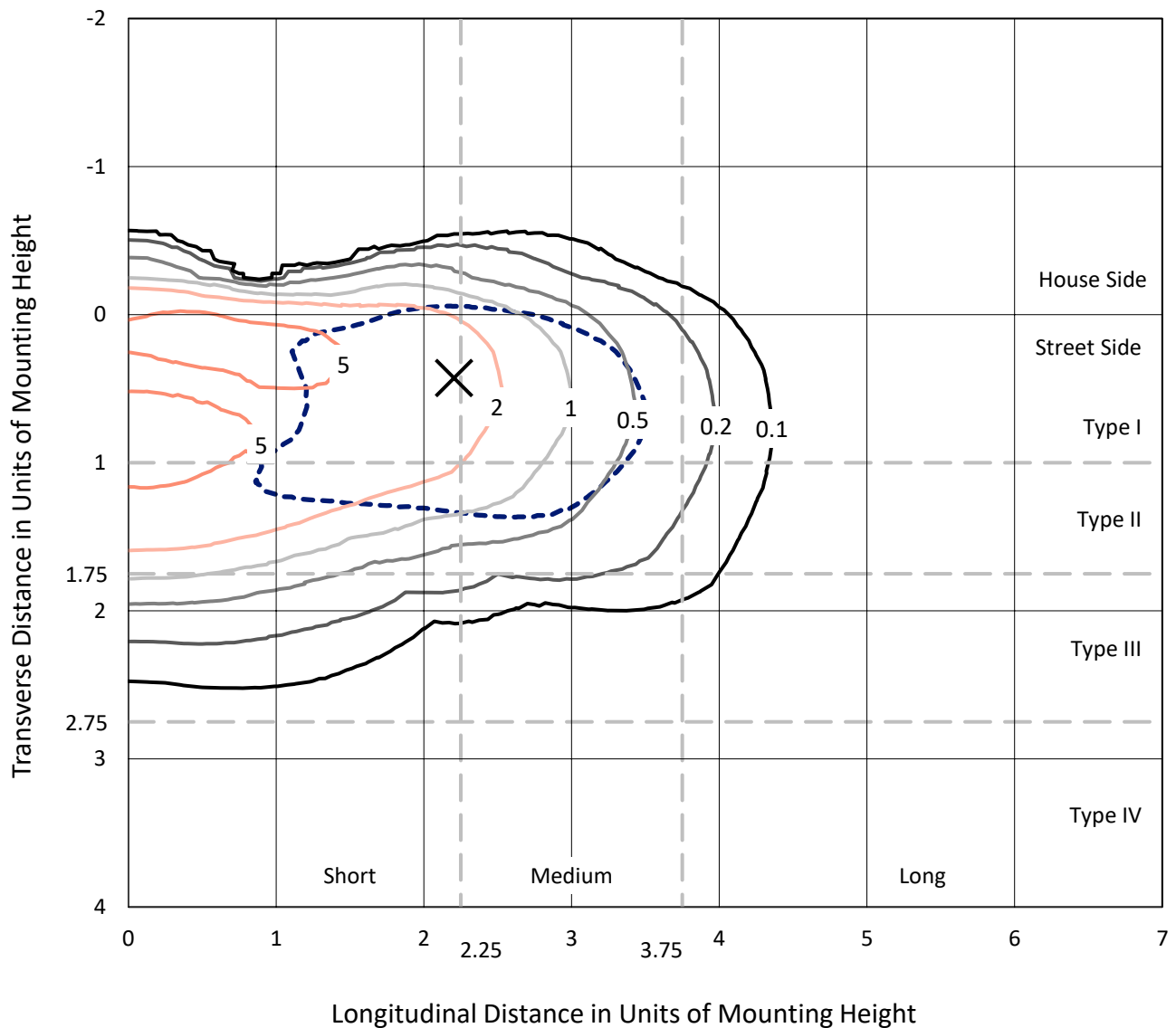
Lumens per Lamp: N/A
Luminaire Lumens: 23776.9 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 321.5
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

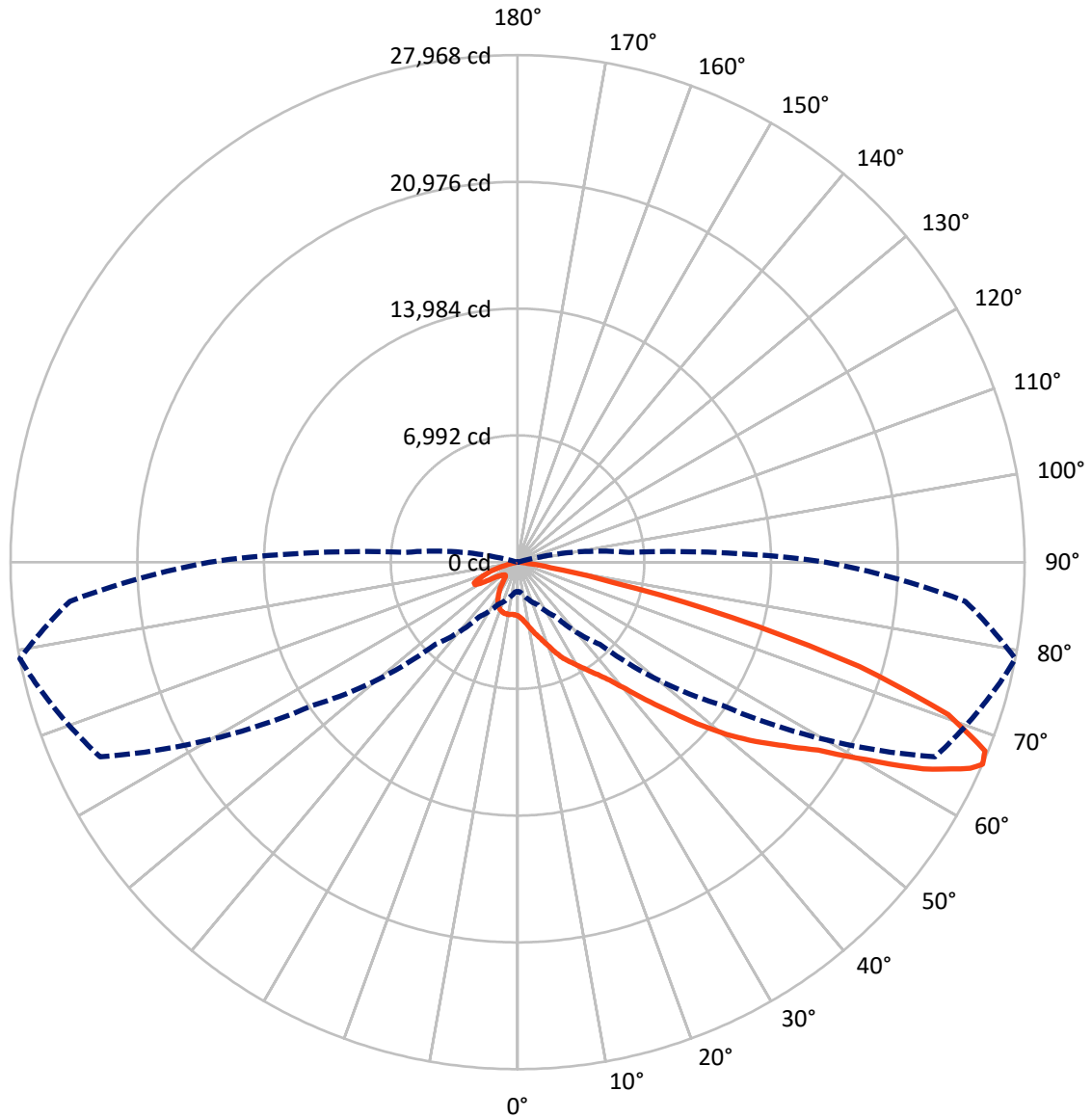
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1785.3	0.0	1785.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	21991.5	0.0	21991.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	23776.9	0.0	23776.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.8	1.2
10°-20°	769.9	3.2
20°-30°	1279.0	5.4
30°-40°	2196.9	9.2
40°-50°	3980.0	16.7
50°-60°	6291.2	26.5
60°-70°	6401.8	26.9
70°-80°	2441.3	10.3
80°-90°	136.9	0.6
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°	23776.9	100.0
0°-180°	23776.9	100.0

Coefficient of Utilization



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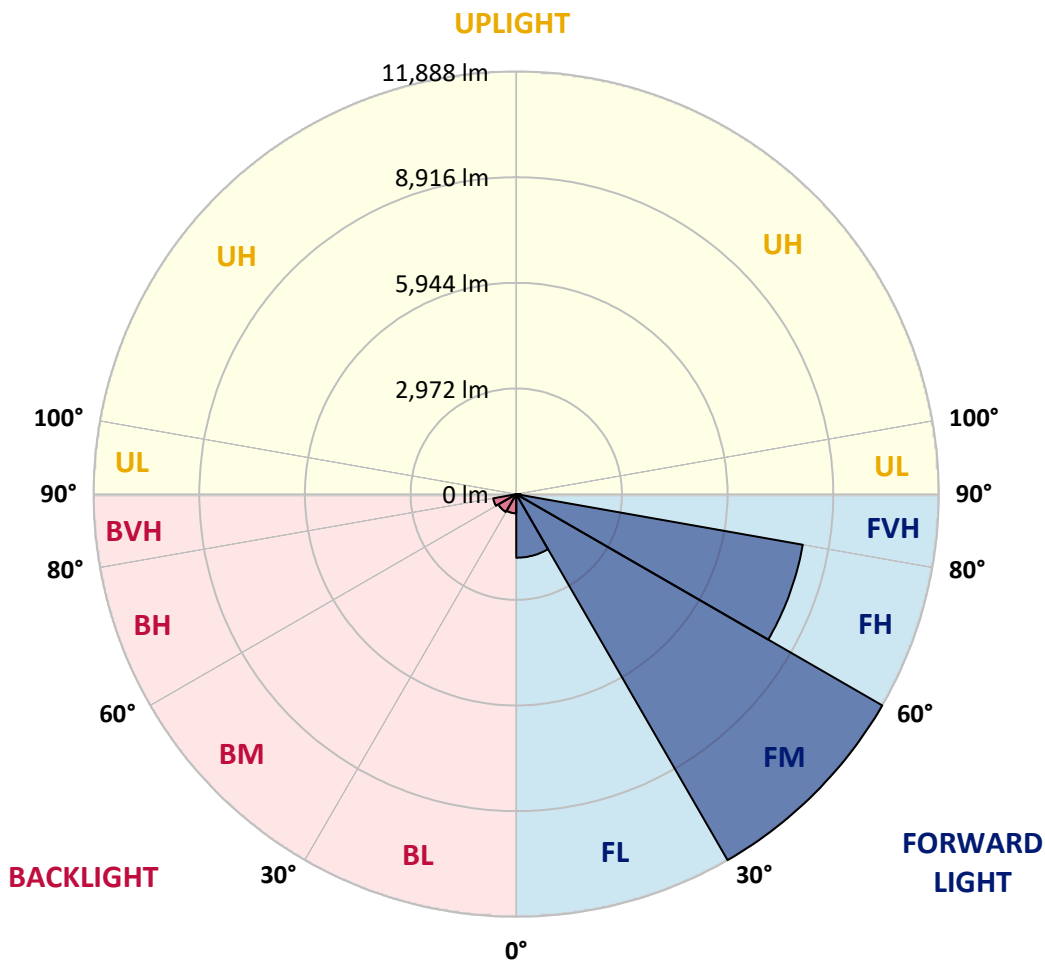
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1788.8	7.5			
FM (30°-60°)	11887.9	50.0			
FH (60°-80°)	8185.0	34.4			G4/12000
FVH (80°-90°)	129.9	0.5			G2/225
BL (0°-30°)	539.9	2.3	B2/1000		
BM (30°-60°)	580.3	2.4	B1/1000		
BH (60°-80°)	658.1	2.8	B2/1000		G2/1000
BVH (80°-90°)	7.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2958.1	2958.1	2958.1	2958.1	2958.1	2958.1	2958.1	2958.1	2958.1	2958.1	2958.1
2.5°	3350.3	3346.7	3332.0	3306.4	3273.4	3262.4	3214.7	3148.7	3112.1	3071.8	3053.4
5°	3581.3	3562.9	3606.9	3588.6	3595.9	3508.0	3449.3	3401.7	3262.4	3207.4	3119.4
7.5°	3632.6	3650.9	3647.3	3676.6	3705.9	3738.9	3698.6	3628.9	3489.6	3409.0	3313.7
10°	3632.6	3625.3	3654.6	3694.9	3779.2	3852.5	3962.5	3870.9	3764.6	3669.3	3497.0
12.5°	3566.6	3555.6	3584.9	3669.3	3819.5	3969.8	4090.8	4178.8	4028.5	3951.5	3727.9
15°	3365.0	3354.0	3475.0	3625.3	3823.2	4068.8	4321.7	4464.7	4362.0	4241.1	3991.8
17.5°	3115.7	3130.4	3258.7	3508.0	3823.2	4116.5	4439.0	4750.6	4735.9	4582.0	4321.7
20°	3031.4	3042.4	3170.7	3350.3	3709.6	4149.4	4622.3	5062.2	5150.1	4966.9	4626.0
22.5°	3192.7	3181.7	3192.7	3302.7	3632.6	4120.1	4743.3	5417.7	5575.4	5432.4	5025.5
25°	3742.6	3735.2	3643.6	3475.0	3588.6	4054.1	4805.6	5652.3	6015.2	5883.3	5348.1
27.5°	4549.0	4519.7	4376.7	4024.8	3793.9	4094.5	4908.2	5879.6	6400.1	6249.8	5637.7
30°	5414.1	5344.4	5157.5	4717.6	4325.4	4244.7	4966.9	6048.2	6829.0	6638.4	5890.6
32.5°	6011.6	6103.2	6044.5	5597.3	4996.2	4593.0	5062.2	6260.8	7224.9	7100.2	6323.1
35°	6935.3	7041.6	6796.0	6400.1	5795.3	5146.5	5263.8	6433.1	7833.4	7624.4	6726.3
37.5°	8100.9	8181.6	8005.6	7254.2	6616.4	5828.3	5678.0	6792.3	8357.5	8258.6	7243.2
40°	8687.4	9076.0	8826.7	8148.6	7463.1	6781.3	6363.5	7213.9	9270.3	9189.6	7958.0
42.5°	9497.5	9691.8	9563.5	9061.3	8346.5	7800.4	7210.2	8035.0	10377.3	10377.3	8925.7
45°	10355.3	10362.6	10355.3	9944.7	9310.6	9028.3	8353.9	9065.0	11568.6	11700.5	10084.0
47.5°	11059.1	11279.0	11260.7	11015.1	10523.9	10417.6	9497.5	10238.0	13064.1	13295.1	11213.0
50°	11422.0	11667.6	11740.9	11869.2	11847.2	12070.8	10747.5	11597.9	14354.4	14922.6	12664.6
52.5°	11323.0	11341.3	11792.2	12298.0	13104.5	13731.3	12254.0	13141.1	15864.6	16425.5	13786.3
55°	10512.9	10443.3	11370.6	11949.8	13617.6	14746.6	14339.8	15065.6	17041.3	17895.4	14944.6
57.5°	8735.1	8753.4	9611.2	10787.8	13236.4	15149.9	16568.4	17580.1	18690.8	19552.2	16572.1
60°	6029.9	6007.9	6968.3	8328.2	10996.8	14398.4	17851.4	20838.8	20897.5	22118.1	19493.6
62.5°	3390.7	3398.0	4127.4	5289.4	7694.1	11766.5	17789.1	24299.2	24049.9	25120.3	22814.6
65°	1920.8	1968.4	2470.6	3134.1	4607.6	7899.3	15300.1	25677.4	26480.2	27433.2	24830.7
66°	1623.9	1656.8	2085.7	2587.9	3676.6	6407.4	13771.6	25409.8	27242.6	27968.4	24790.3
67.5°	1257.3	1301.3	1660.5	2052.7	2697.9	4435.4	11084.7	24079.2	27381.9	27807.1	24090.2
70°	861.4	890.7	1165.7	1557.9	1843.8	2269.0	6627.4	19907.8	24845.3	25204.6	20937.8
72.5°	604.8	619.5	817.4	1180.3	1418.6	1297.6	3288.0	14163.8	19013.4	19713.5	16286.2
75°	436.2	450.9	560.8	846.8	1107.0	850.4	1506.6	9046.7	11660.2	12210.1	9809.1
77.5°	315.2	333.6	381.2	546.2	802.8	597.5	740.4	4724.9	5498.4	5403.1	4219.1
80°	190.6	208.9	282.3	351.9	586.5	421.5	406.9	1972.1	1950.1	1851.1	1326.9
82.5°	88.0	102.6	150.3	238.3	410.5	293.2	194.3	703.8	615.8	564.5	373.9
85°	25.7	33.0	88.0	179.6	208.9	143.0	117.3	241.9	252.9	216.3	124.6
87.5°	0.0	3.7	40.3	44.0	62.3	47.7	44.0	62.3	117.3	95.3	40.3
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°	2958.1	2958.1	2958.1	2958.1	2958.1	2958.1	2958.1	2958.1	2958.1	2958.1	2958.1
2.5°	2987.5	2961.8	2899.5	2804.2	2719.9	2675.9	2613.6	2558.6	2529.3	2525.6	2521.9
5°	3060.8	2991.1	2840.8	2668.5	2540.3	2401.0	2305.7	2236.0	2170.0	2107.7	2144.4
7.5°	3159.7	3049.8	2804.2	2580.6	2302.0	2122.4	1953.8	1854.8	1796.1	1741.2	1733.8
10°	3313.7	3174.4	2778.5	2375.3	2056.4	1792.5	1620.2	1477.2	1396.6	1301.3	1337.9
12.5°	3522.6	3273.4	2683.2	2188.4	1777.8	1499.2	1253.6	1022.7	894.4	795.4	799.1
15°	3731.6	3405.3	2595.2	1961.1	1524.9	1158.3	799.1	641.5	604.8	582.8	590.2
17.5°	3936.8	3511.6	2459.6	1730.2	1235.3	736.8	582.8	549.8	531.5	509.5	509.5
20°	4186.1	3581.3	2291.0	1517.6	850.4	546.2	498.5	476.5	447.2	417.9	421.5
22.5°	4428.0	3639.9	2096.7	1246.3	571.8	472.9	417.9	388.6	362.9	333.6	333.6
25°	4670.0	3658.3	1843.8	894.4	461.9	377.6	326.2	285.9	260.3	234.6	238.3
27.5°	4834.9	3544.6	1605.5	571.8	370.2	285.9	227.3	194.3	172.3	146.6	146.6
30°	4930.2	3335.7	1348.9	403.2	278.6	194.3	135.6	102.6	80.6	62.3	58.6
32.5°	5025.5	3167.1	1059.4	307.9	183.3	102.6	51.3	18.3	0.0	0.0	0.0
35°	5216.1	2976.5	711.1	172.3	62.3	3.7	0.0	0.0	0.0	0.0	0.0
37.5°	5337.1	2712.5	326.2	25.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5641.3	2580.6	80.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6136.2	2488.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6678.7	2452.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7400.8	2551.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8163.3	2818.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8999.0	3071.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9728.5	3376.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	11070.1	4094.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13478.4	5505.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	16190.9	6554.1	40.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	17184.3	6528.4	69.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	17008.3	6169.2	69.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	16095.6	5480.0	62.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13822.9	4527.0	62.3	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	10538.6	3526.3	58.6	14.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	6359.8	1876.8	47.7	18.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2532.9	659.8	36.7	14.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	685.5	197.9	22.0	14.7	11.0	3.7	0.0	0.0	0.0	0.0	0.0
82.5°	179.6	73.3	18.3	14.7	7.3	3.7	0.0	0.0	0.0	0.0	0.0
85°	69.6	29.3	14.7	11.0	11.0	7.3	3.7	0.0	0.0	0.0	0.0
87.5°	22.0	11.0	11.0	7.3	7.3	3.7	3.7	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)