

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: P400472

Luminaire Tested: **ARCH-L-PA3-280-830-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-280-830-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19667 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

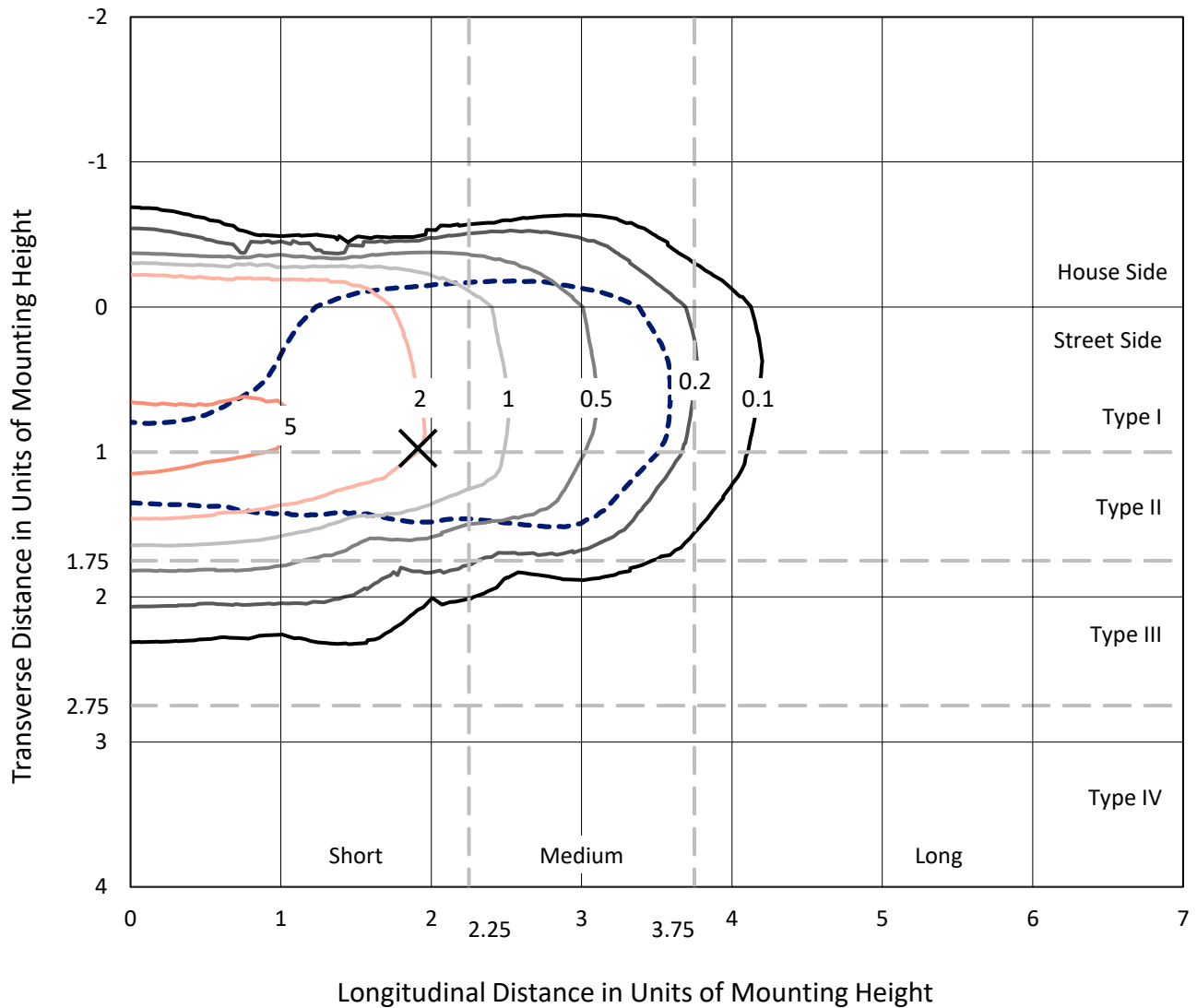
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

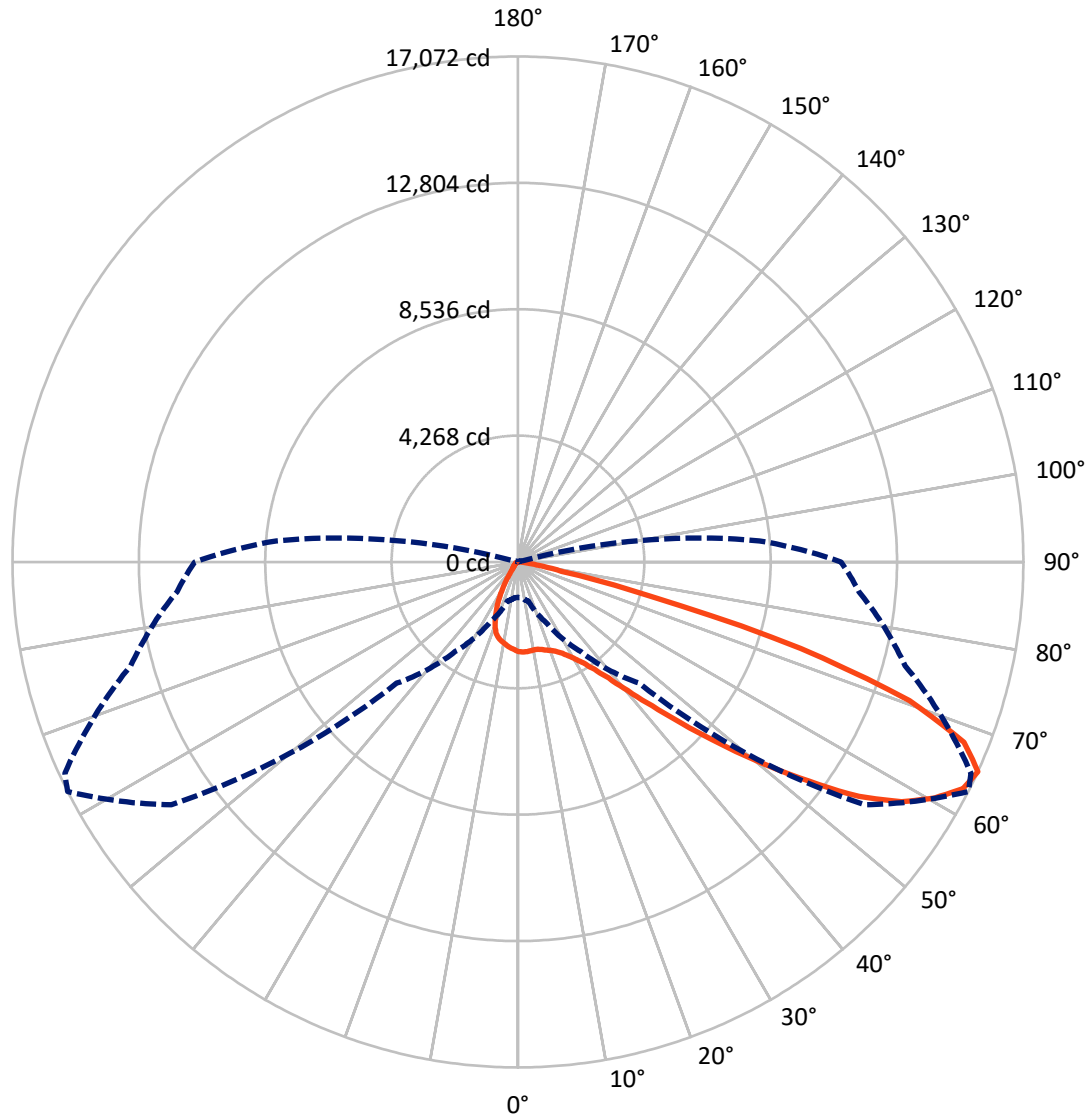
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2531.1	0.0	2531.1
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	17135.9	0.0	17135.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	19667.0	0.0	19667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	1.4
10°-20°	682.0	3.5
20°-30°	1010.8	5.1
30°-40°	1876.8	9.5
40°-50°	3976.0	20.2
50°-60°	5497.8	28.0
60°-70°	4401.1	22.4
70°-80°	1828.6	9.3
80°-90°	117.4	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°	19667.0	100.0
0°-180°	19667.0	100.0

Coefficient of Utilization



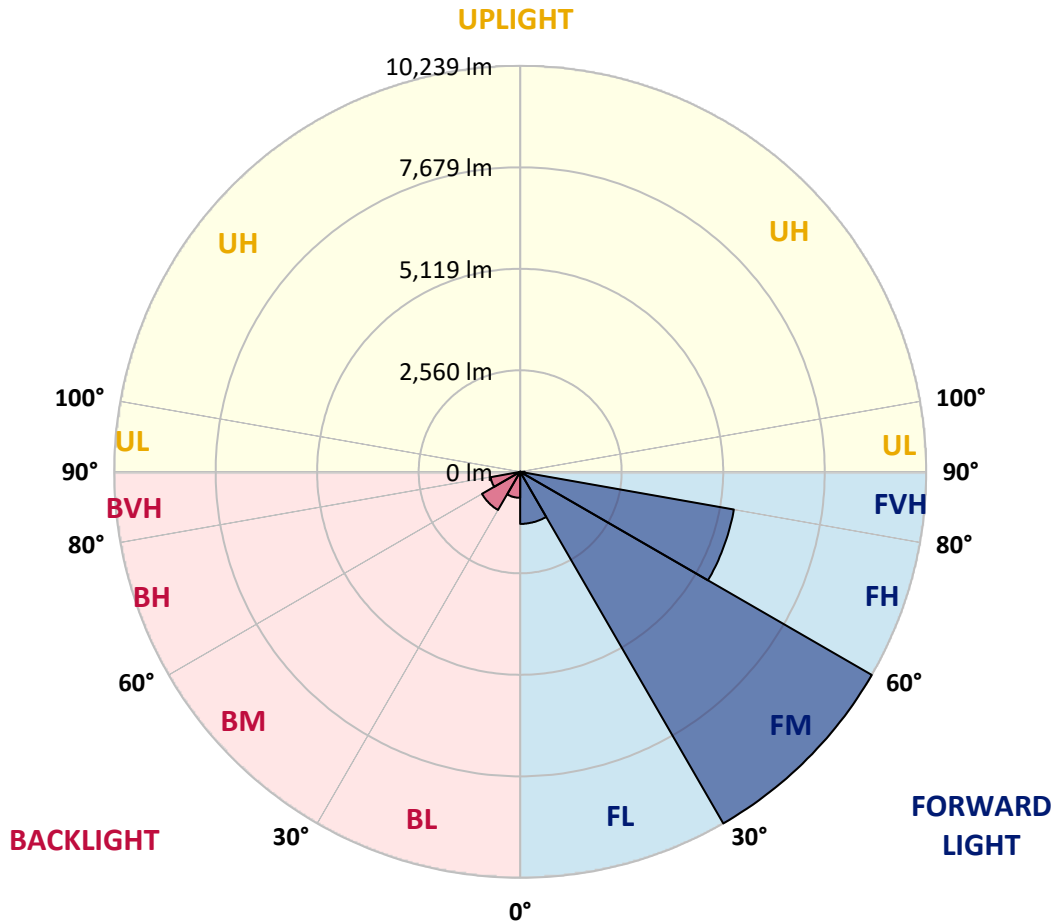
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1313.3	6.7			
FM (30°-60°)	10238.7	52.1			
FH (60°-80°)	5471.8	27.8			G3/7500
FVH (80°-90°)	112.1	0.6			G2/225
BL (0°-30°)	656.0	3.3	B2/1000		
BM (30°-60°)	1111.9	5.7	B2/2500		
BH (60°-80°)	757.9	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.4	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3029.7	3029.7	3029.7	3029.7	3029.7	3029.7	3029.7	3029.7	3029.7	3029.7	3029.7
2.5°	3081.7	3074.3	3066.8	3063.1	3063.1	3059.4	3044.6	3040.9	3033.4	3026.0	3018.6
5°	3052.0	3040.9	3037.1	3040.9	3044.6	3052.0	3044.6	3044.6	3037.1	3029.7	3014.9
7.5°	2977.7	2970.3	2974.0	2985.2	2988.9	3014.9	3018.6	3029.7	3029.7	3022.3	3011.1
10°	2888.6	2884.9	2884.9	2903.5	2922.0	2959.2	2985.2	3014.9	3018.6	3018.6	3000.0
12.5°	2821.8	2818.1	2829.2	2851.5	2888.6	2936.9	2981.4	3026.0	3033.4	3037.1	3007.4
15°	2780.9	2780.9	2795.8	2840.4	2892.3	2959.2	3011.1	3070.6	3078.0	3074.3	3033.4
17.5°	2743.8	2747.5	2777.2	2851.5	2910.9	3000.0	3063.1	3130.0	3133.7	3130.0	3063.1
20°	2729.0	2736.4	2780.9	2877.5	2944.3	3044.6	3126.2	3193.1	3196.8	3181.9	3092.8
22.5°	2769.8	2773.5	2829.2	2933.2	2996.3	3107.7	3211.6	3274.8	3278.5	3256.2	3137.4
25°	2910.9	2910.9	2959.2	3048.3	3104.0	3215.4	3326.7	3401.0	3401.0	3375.0	3237.6
27.5°	3241.3	3211.6	3200.5	3226.5	3245.1	3363.9	3482.7	3575.5	3571.8	3534.7	3367.6
30°	3880.0	3805.7	3686.9	3553.2	3486.4	3568.1	3679.5	3798.3	3794.6	3735.2	3527.2
32.5°	4953.0	4845.3	4563.1	4210.4	3924.5	3831.7	3935.7	4065.6	4069.3	3998.8	3783.4
35°	6456.7	6285.9	5781.0	5290.9	4637.4	4284.7	4314.4	4455.5	4500.0	4462.9	4214.1
37.5°	7904.7	7748.8	7266.1	6586.7	5699.3	4979.0	4852.7	4975.3	5027.2	5027.2	4763.6
40°	9363.9	9182.0	8755.0	8071.8	7136.2	6063.1	5610.2	5710.4	5766.1	5777.2	5431.9
42.5°	10533.4	10414.6	10087.9	9557.0	8680.7	7964.1	6701.8	6646.1	6698.0	6657.2	6207.9
45°	11342.9	11250.0	11023.5	10823.1	10396.1	10035.9	8160.9	7785.9	7819.3	7678.2	7080.5
47.5°	11509.9	11406.0	11357.7	11636.2	11940.6	12029.7	9954.2	9141.1	9107.7	8795.8	7986.4
50°	10782.2	10793.3	10971.6	11766.1	13035.9	13837.9	12033.5	10670.8	10548.3	9854.0	8829.2
52.5°	9211.7	9389.9	9839.1	11127.5	13370.1	15152.3	14112.7	12293.4	12104.0	10882.5	9460.4
55°	7206.7	7436.9	8175.8	9657.2	12672.1	15738.9	15865.1	13979.0	13548.3	11654.7	9950.5
57.5°	5357.7	5428.2	6289.6	7641.1	11019.8	15163.4	16763.7	15278.5	14725.3	12271.1	10436.9
60°	3337.9	3382.4	4292.1	5818.1	8346.6	13035.9	16763.7	16173.3	15646.1	12824.3	10882.5
62.5°	2075.5	2090.4	2431.9	3987.6	5673.3	9668.3	16069.4	16867.6	16444.4	13221.6	11264.9
65°	1195.5	1210.4	1370.1	2253.7	3690.6	5788.4	14294.6	17071.8	16882.5	13537.2	11561.9
67.5°	872.5	880.0	943.1	1266.1	2413.4	2974.0	10737.7	16251.3	16488.9	13693.1	11554.5
70°	757.4	768.6	850.3	987.6	1741.3	1826.7	5465.4	14034.7	14699.3	13470.3	11209.2
72.5°	582.9	597.8	720.3	928.2	1277.2	1314.4	1979.0	9987.7	10993.8	12078.0	10262.4
75°	401.0	415.8	538.4	764.9	1054.5	983.9	1087.9	4596.5	5799.5	8101.5	7811.9
77.5°	256.2	259.9	337.9	556.9	909.7	698.0	746.3	1500.0	2105.2	3664.6	3686.9
80°	170.8	174.5	207.9	360.1	623.8	646.0	460.4	694.3	761.1	1069.3	742.6
82.5°	104.0	104.0	141.1	226.5	378.7	534.7	300.7	363.9	389.9	412.1	193.1
85°	40.8	40.8	85.4	148.5	237.6	248.8	189.4	211.6	222.8	241.3	89.1
87.5°	11.1	11.1	48.3	81.7	104.0	115.1	115.1	104.0	111.4	137.4	44.6
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°	3029.7	3029.7	3029.7	3029.7	3029.7	3029.7	3029.7	3029.7	3029.7	3029.7	3029.7
2.5°	3014.9	3003.7	2988.9	2974.0	2959.2	2948.0	2936.9	2936.9	2929.5	2918.3	2910.9
5°	3007.4	2988.9	2955.5	2929.5	2888.6	2858.9	2836.6	2818.1	2806.9	2780.9	2777.2
7.5°	2996.3	2974.0	2925.8	2873.8	2806.9	2755.0	2703.0	2665.8	2628.7	2599.0	2591.6
10°	2977.7	2951.7	2881.2	2806.9	2714.1	2617.6	2495.1	2354.0	2224.0	2149.8	2127.5
12.5°	2977.7	2944.3	2851.5	2751.2	2617.6	2380.0	2068.1	1756.2	1514.9	1407.2	1377.5
15°	2996.3	2951.7	2829.2	2691.8	2443.1	1960.4	1455.4	1043.3	779.7	698.0	679.5
17.5°	3014.9	2951.7	2795.8	2610.2	2123.8	1422.0	828.0	549.5	464.1	445.5	445.5
20°	3022.3	2944.3	2751.2	2457.9	1696.8	883.7	493.8	412.1	378.7	367.6	367.6
22.5°	3052.0	2948.0	2717.8	2238.9	1232.7	519.8	389.9	345.3	311.9	300.7	300.7
25°	3126.2	2992.6	2725.3	1960.4	790.8	393.6	330.4	285.9	252.5	237.6	237.6
27.5°	3245.1	3092.8	2766.1	1637.4	497.5	337.9	278.5	230.2	204.2	189.4	189.4
30°	3378.7	3204.2	2784.7	1266.1	371.3	285.9	226.5	181.9	163.4	152.2	148.5
32.5°	3612.6	3397.3	2769.8	868.8	304.5	241.3	181.9	144.8	130.0	126.2	126.2
35°	3987.6	3735.2	2740.1	545.8	252.5	193.1	144.8	118.8	107.7	104.0	100.2
37.5°	4496.3	4229.0	2651.0	360.1	207.9	152.2	118.8	100.2	89.1	85.4	85.4
40°	5116.4	4793.3	2480.2	274.8	178.2	122.5	100.2	85.4	78.0	74.3	74.3
42.5°	5825.5	5420.8	2209.2	237.6	148.5	104.0	85.4	70.5	66.8	63.1	63.1
45°	6601.5	6078.0	1834.2	211.6	126.2	85.4	70.5	63.1	55.7	55.7	52.0
47.5°	7425.8	6738.9	1410.9	185.6	107.7	74.3	63.1	52.0	48.3	44.6	44.6
50°	8220.3	7329.2	991.3	159.7	89.1	63.1	52.0	44.6	40.8	37.1	37.1
52.5°	8781.0	7685.7	701.7	137.4	74.3	55.7	40.8	33.4	29.7	29.7	29.7
55°	9230.2	7908.4	490.1	115.1	63.1	48.3	33.4	26.0	26.0	22.3	22.3
57.5°	9653.5	8053.2	360.1	96.5	52.0	37.1	26.0	18.6	18.6	14.9	14.9
60°	10091.6	8131.2	274.8	78.0	44.6	29.7	18.6	14.9	11.1	11.1	11.1
62.5°	10533.4	8179.5	211.6	63.1	37.1	22.3	14.9	11.1	7.4	3.7	3.7
65°	10919.6	8194.3	163.4	48.3	29.7	14.9	11.1	3.7	0.0	0.0	0.0
67.5°	11034.7	8023.5	126.2	37.1	22.3	11.1	7.4	0.0	0.0	0.0	0.0
70°	10722.8	7570.6	96.5	29.7	18.6	7.4	3.7	0.0	0.0	0.0	0.0
72.5°	9516.1	6349.0	74.3	18.6	14.9	7.4	3.7	0.0	0.0	0.0	0.0
75°	6809.4	3386.1	52.0	14.9	11.1	3.7	0.0	0.0	0.0	0.0	0.0
77.5°	3133.7	1310.6	37.1	11.1	7.4	3.7	0.0	0.0	0.0	0.0	0.0
80°	612.6	326.7	14.9	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	141.1	55.7	7.4	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.3	18.6	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.6	7.4	3.7	0.0	0.0	0.0	0.0	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)