

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: P400407

Luminaire Tested: **ARCH-L-PA3-280-722-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-280-722-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21013 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

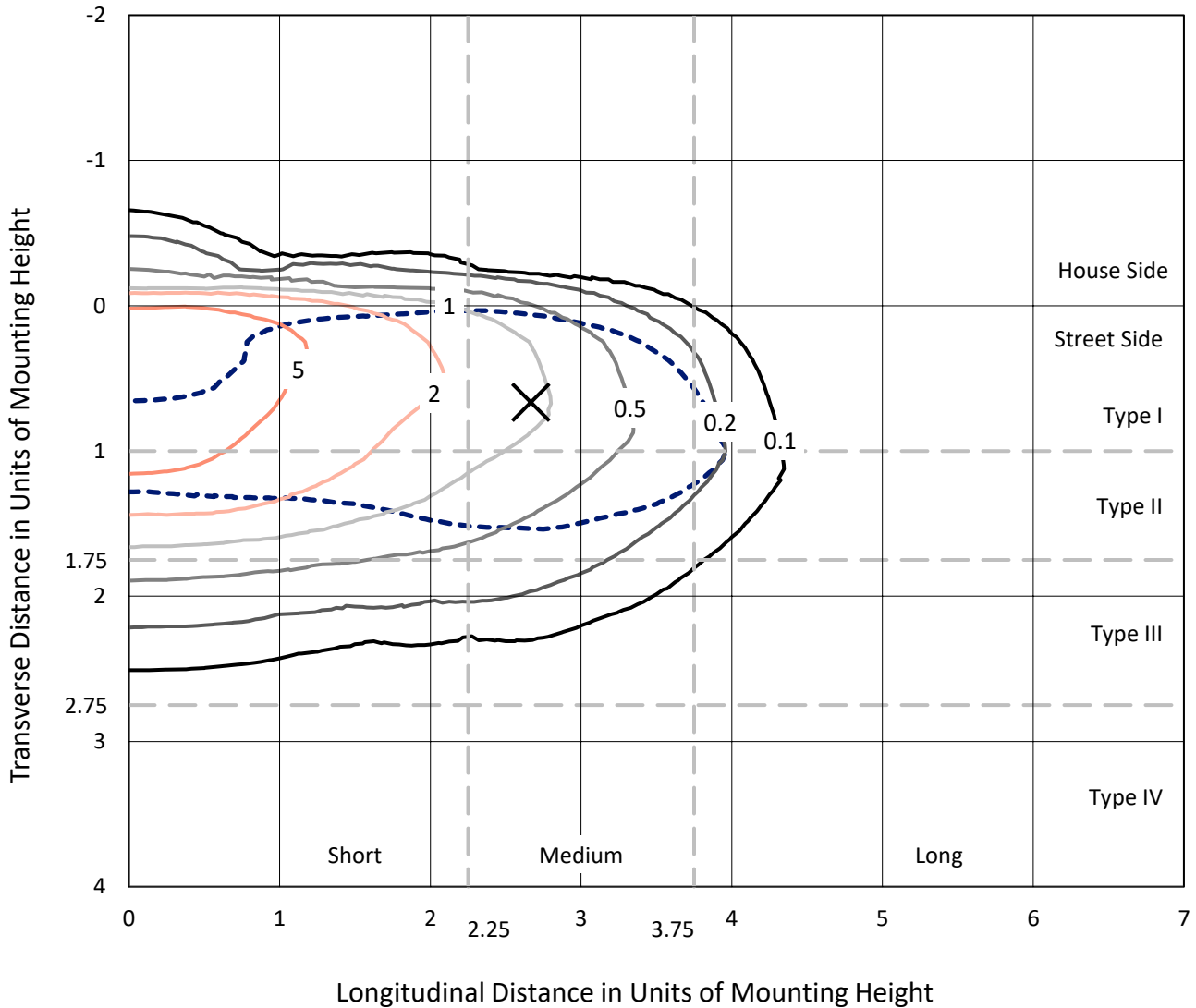
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

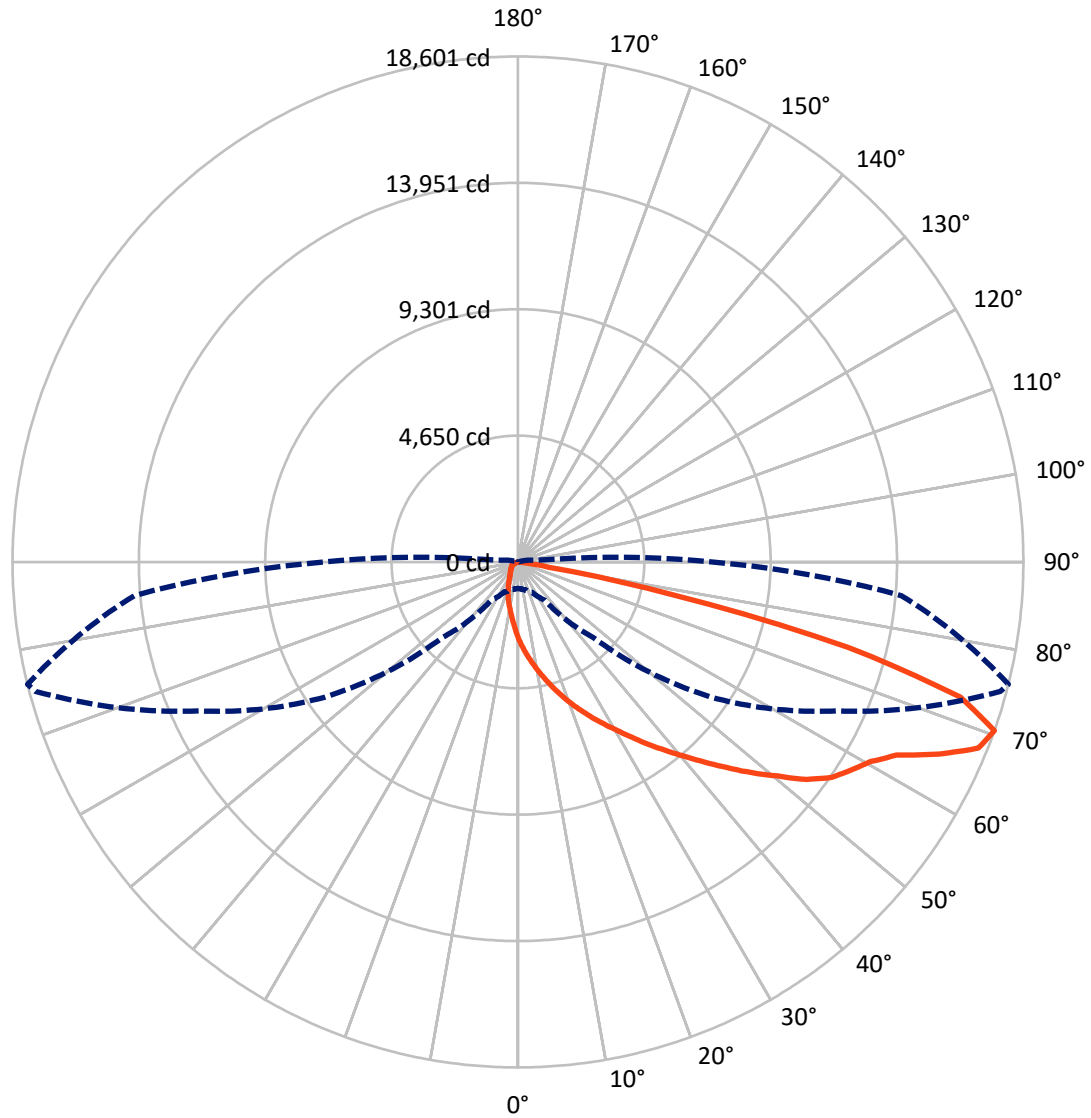
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	991.1	0.0	991.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	20022.0	0.0	20022.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	21013.0	0.0	21013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.0	1.3
10°-20°	855.2	4.1
20°-30°	1592.7	7.6
30°-40°	2817.2	13.4
40°-50°	4308.1	20.5
50°-60°	4884.4	23.2
60°-70°	4187.1	19.9
70°-80°	2028.0	9.7
80°-90°	75.2	0.4
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°	21013.0	100.0
0°-180°	21013.0	100.0

Coefficient of Utilization

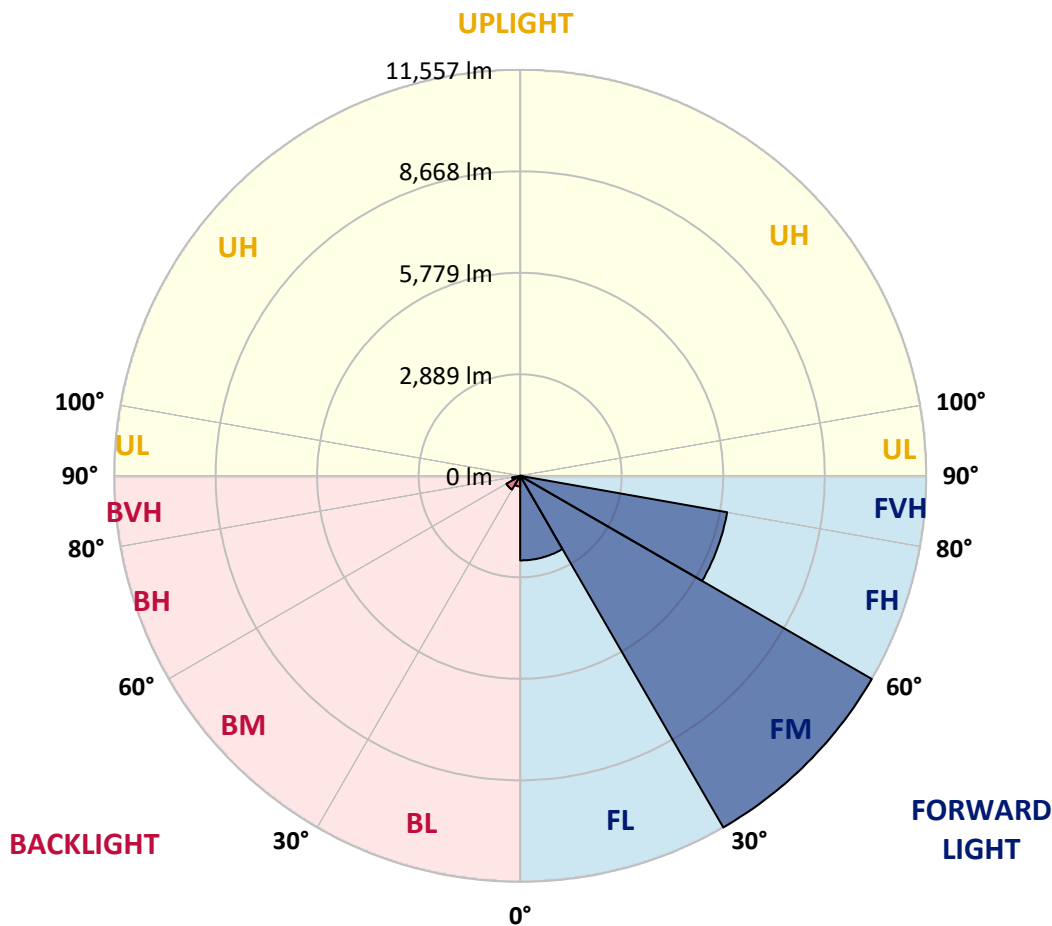


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2408.9	11.5			
FM (30°-60°)	11557.3	55.0			
FH (60°-80°)	5981.8	28.5			G3/7500
FVH (80°-90°)	73.9	0.4			G1/100
BL (0°-30°)	304.0	1.4	B1/500		
BM (30°-60°)	452.4	2.2	B1/1000		
BH (60°-80°)	233.4	1.1	B1/500		G1/500
BVH (80°-90°)	1.3	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-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7
2.5°	3844.8	3823.8	3802.8	3722.3	3648.8	3582.4	3456.4	3292.0	3145.1	3113.6	2942.2
5°	4516.5	4492.0	4460.5	4380.0	4285.6	4173.6	3988.2	3736.3	3477.4	3421.4	3103.1
7.5°	4971.2	4950.3	4904.8	4866.3	4771.8	4663.4	4457.0	4163.1	3806.3	3736.3	3288.5
10°	5282.6	5268.6	5261.6	5230.1	5160.2	5072.7	4866.3	4558.4	4138.6	4058.2	3484.4
12.5°	5394.6	5394.6	5429.5	5482.0	5492.5	5464.5	5275.6	4967.7	4488.5	4404.5	3715.3
15°	5244.1	5261.6	5338.6	5506.5	5681.4	5796.9	5677.9	5391.1	4873.3	4782.3	3988.2
17.5°	5202.1	5219.6	5272.1	5419.0	5653.4	5961.3	6020.8	5800.4	5237.1	5160.2	4268.1
20°	5321.1	5338.6	5384.1	5510.0	5688.4	5999.8	6248.2	6195.7	5622.0	5541.5	4551.4
22.5°	5604.5	5615.0	5615.0	5712.9	5870.3	6101.2	6391.6	6570.0	6017.3	5929.8	4831.3
25°	6213.2	6192.2	6108.2	6059.3	6160.7	6349.6	6573.5	6898.9	6458.1	6339.1	5132.2
27.5°	7010.8	7080.8	6877.9	6643.5	6566.5	6675.0	6828.9	7189.2	6884.9	6758.9	5405.0
30°	8091.8	8063.8	7798.0	7462.1	7129.8	7091.3	7143.8	7437.6	7311.7	7192.7	5709.4
32.5°	8980.4	9032.9	8753.0	8343.7	7846.9	7612.5	7556.6	7735.0	7766.5	7689.5	6069.7
35°	9893.5	9949.5	9676.6	9221.8	8630.6	8238.8	8077.8	8102.3	8329.7	8231.8	6447.6
37.5°	10712.1	10761.1	10491.7	10026.5	9435.2	8955.9	8725.0	8536.1	8875.5	8788.0	6846.4
40°	11334.9	11341.9	11159.9	10743.6	10183.9	9687.1	9424.7	9053.9	9452.7	9393.2	7262.7
42.5°	11775.7	11789.7	11656.7	11299.9	10782.1	10320.3	10106.9	9666.1	10117.4	10064.9	7745.5
45°	11982.1	12006.6	11992.6	11663.7	11233.4	10834.6	10764.6	10316.8	10845.1	10796.1	8301.7
47.5°	11786.2	11786.2	11964.6	11919.1	11523.8	11257.9	11338.4	10995.5	11635.7	11590.2	8868.5
50°	10971.0	10981.5	11345.4	11866.6	11635.7	11576.3	11828.1	11660.2	12352.9	12380.9	9547.2
52.5°	8830.0	8812.5	10040.4	11041.0	11558.8	11719.7	12279.4	12338.9	13213.5	13297.5	10222.4
55°	6598.0	6587.5	7763.0	9578.7	11020.0	11646.2	12531.3	12944.1	13948.2	14000.7	10726.1
57.5°	5223.1	5195.1	5842.4	7721.0	9802.6	11317.4	12541.8	13059.6	14357.5	14448.5	11215.9
60°	4016.2	3991.7	4474.5	5744.4	8077.8	10442.8	12241.0	13066.6	14752.8	14913.7	11873.6
62.5°	2872.2	2900.2	3271.0	4121.1	6213.2	9207.8	11849.1	13164.5	15456.0	15637.9	12807.7
65°	1938.1	1924.1	2232.0	2805.7	4418.5	7546.1	11247.4	13370.9	16722.4	17040.8	13927.2
67.5°	1346.9	1357.4	1497.3	1826.2	2805.7	5793.4	10246.9	13486.4	18030.8	18279.2	14710.8
70°	972.6	986.6	1063.5	1227.9	1714.2	3928.7	8662.1	12958.1	18384.2	18601.1	14165.1
72.5°	640.2	668.2	783.6	871.1	1095.0	2459.4	6381.1	11163.4	16862.4	17023.3	11884.1
75°	346.3	353.3	503.8	650.7	780.1	1532.3	3806.3	7528.6	12615.3	12562.8	7836.4
77.5°	269.4	279.9	311.4	465.3	524.8	843.1	1504.3	3400.5	5975.3	5814.4	2672.8
80°	164.4	171.4	216.9	276.4	367.3	489.8	440.8	923.6	1213.9	1137.0	391.8
82.5°	98.0	105.0	129.4	230.9	290.4	230.9	153.9	223.9	227.4	223.9	98.0
85°	17.5	17.5	91.0	160.9	153.9	66.5	91.0	73.5	66.5	70.0	21.0
87.5°	0.0	0.0	35.0	49.0	70.0	24.5	35.0	17.5	17.5	17.5	10.5
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°	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7	2812.7
2.5°	2837.2	2718.3	2473.4	2260.0	2046.6	1889.1	1770.2	1647.8	1605.8	1553.3	1525.3
5°	2886.2	2651.8	2165.5	1777.2	1448.3	1196.5	1035.5	937.6	874.6	829.1	818.6
7.5°	2959.7	2599.3	1917.1	1392.4	1032.0	780.1	647.2	580.7	545.8	524.8	517.8
10°	3047.1	2553.8	1672.2	1084.5	727.7	549.3	475.8	447.8	433.8	426.8	423.3
12.5°	3169.6	2536.4	1465.8	836.1	549.3	451.3	412.8	395.3	384.8	374.3	370.8
15°	3330.5	2543.3	1276.9	647.2	454.8	402.3	370.8	353.3	339.3	328.9	328.9
17.5°	3498.4	2553.8	1091.5	524.8	412.8	367.3	332.3	307.9	297.4	286.9	283.4
20°	3655.8	2550.3	913.1	447.8	374.3	328.9	293.9	269.4	251.9	241.4	241.4
22.5°	3806.3	2529.4	745.2	402.3	342.8	290.4	251.9	227.4	213.4	202.9	202.9
25°	3967.2	2487.4	608.7	367.3	304.4	255.4	216.9	192.4	181.9	171.4	171.4
27.5°	4093.1	2417.4	496.8	335.8	269.4	220.4	185.4	164.4	153.9	146.9	146.9
30°	4229.6	2316.0	412.8	300.9	234.4	188.9	157.4	139.9	129.4	125.9	125.9
32.5°	4380.0	2204.0	353.3	265.9	199.4	160.9	132.9	122.4	111.9	108.5	108.5
35°	4554.9	2106.0	318.4	230.9	174.9	136.4	115.4	105.0	98.0	98.0	98.0
37.5°	4754.3	2004.6	286.9	202.9	150.4	115.4	98.0	94.5	91.0	87.5	87.5
40°	4971.2	1896.1	258.9	178.4	129.4	98.0	84.0	84.0	80.5	80.5	80.5
42.5°	5216.1	1801.7	234.4	157.4	111.9	84.0	73.5	73.5	70.0	70.0	70.0
45°	5482.0	1714.2	213.4	139.9	98.0	73.5	66.5	63.0	59.5	59.5	59.5
47.5°	5796.9	1665.2	195.9	122.4	84.0	63.0	56.0	52.5	49.0	45.5	45.5
50°	6199.2	1686.2	178.4	101.5	73.5	52.5	45.5	42.0	38.5	35.0	35.0
52.5°	6517.5	1675.7	153.9	87.5	59.5	42.0	35.0	31.5	28.0	24.5	24.5
55°	6748.4	1633.8	132.9	73.5	45.5	35.0	28.0	21.0	17.5	17.5	17.5
57.5°	6975.8	1591.8	111.9	59.5	35.0	24.5	17.5	14.0	14.0	14.0	14.0
60°	7329.2	1532.3	98.0	49.0	28.0	17.5	10.5	10.5	7.0	7.0	7.0
62.5°	7759.5	1458.8	80.5	42.0	21.0	14.0	7.0	7.0	0.0	0.0	0.0
65°	8231.8	1329.4	66.5	31.5	17.5	10.5	7.0	0.0	0.0	0.0	0.0
67.5°	8123.3	1067.0	56.0	21.0	14.0	7.0	3.5	0.0	0.0	0.0	0.0
70°	7185.7	720.7	45.5	17.5	10.5	7.0	3.5	0.0	0.0	0.0	0.0
72.5°	5628.9	426.8	31.5	14.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0
75°	3603.4	213.4	21.0	10.5	7.0	3.5	0.0	0.0	0.0	0.0	0.0
77.5°	1207.0	105.0	14.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	171.4	35.0	7.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	38.5	14.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	3.5	0.0	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)