

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: P400317

Luminaire Tested: **ARCH-L-PA3-260-827-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400317
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-PA3-260-827-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1110mA 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: 20152 lumens
Efficiency: N/A
Efficacy: 77.2 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

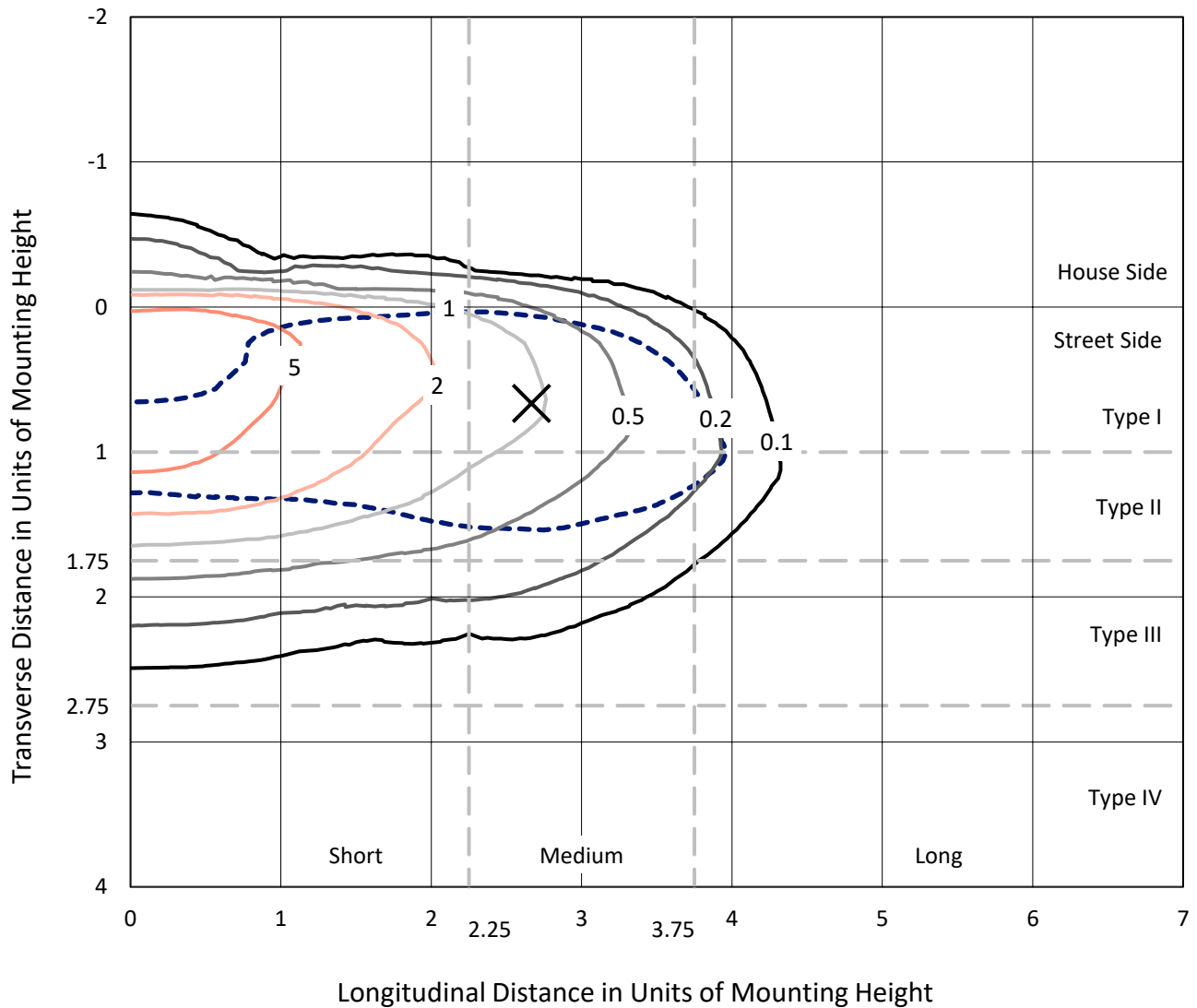
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400317
 CATALOG NUMBER: ARCH-L-PA3-260-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

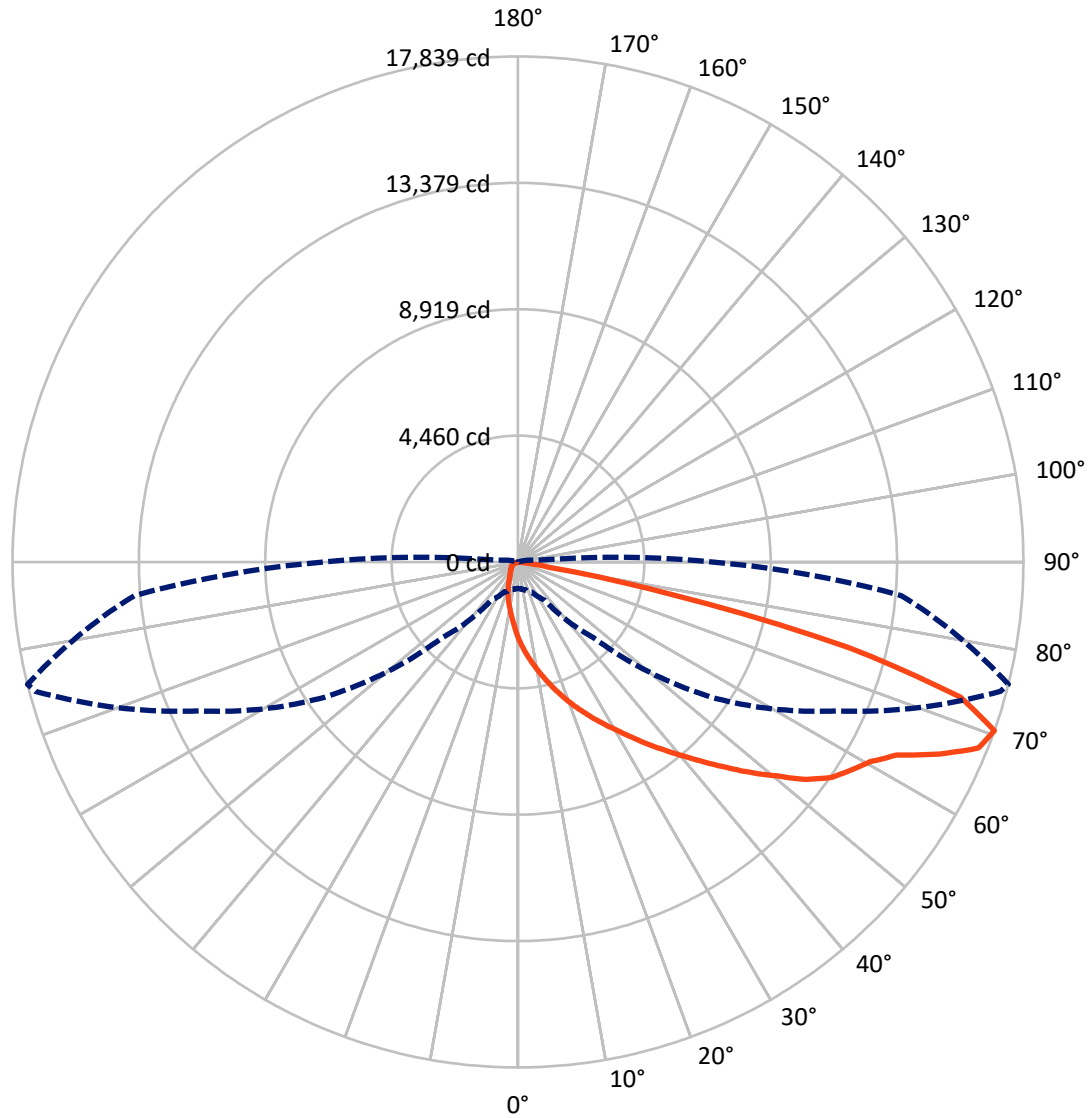
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P400317
CATALOG NUMBER: ARCH-L-PA3-260-827-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P400317
 CATALOG NUMBER: ARCH-L-PA3-260-827-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	950.4	0.0	950.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	19201.6	0.0	19201.6
	% Fixture	95.3	0.0	95.3
Total	Lumens	20152.0	0.0	20152.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.1	1.3
10°-20°	820.2	4.1
20°-30°	1527.5	7.6
30°-40°	2701.8	13.4
40°-50°	4131.6	20.5
50°-60°	4684.3	23.2
60°-70°	4015.6	19.9
70°-80°	1944.9	9.7
80°-90°	72.1	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°	20152.0	100.0
0°-180°	20152.0	100.0

Coefficient of Utilization

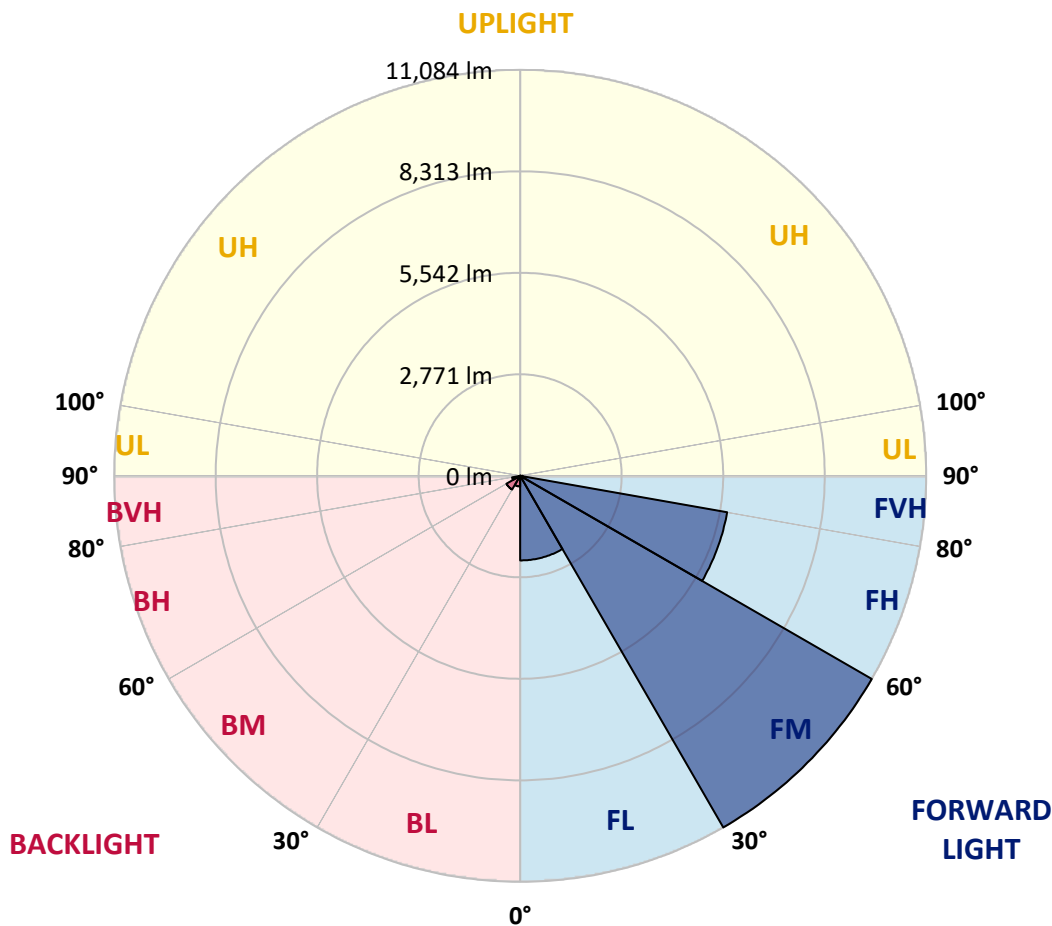


REPORT NUMBER: P400317
 CATALOG NUMBER: ARCH-L-PA3-260-827-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2310.2	11.5			
FM (30°-60°)	11083.8	55.0			
FH (60°-80°)	5736.7	28.5			G3/7500
FVH (80°-90°)	70.9	0.4			G1/100
BL (0°-30°)	291.6	1.4	B1/500		
BM (30°-60°)	433.9	2.2	B1/1000		
BH (60°-80°)	223.8	1.1	B1/500		G1/500
BVH (80°-90°)	1.2	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





REPORT NUMBER: P400317

CATALOG NUMBER: ARCH-L-PA3-260-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5
2.5°	3687.2	3667.1	3647.0	3569.8	3499.3	3435.6	3314.8	3157.1	3016.2	2986.0	2821.6
5°	4331.4	4307.9	4277.7	4200.5	4110.0	4002.6	3824.8	3583.2	3334.9	3281.3	2975.9
7.5°	4767.6	4747.4	4703.8	4666.9	4576.3	4472.3	4274.4	3992.5	3650.3	3583.2	3153.8
10°	5066.2	5052.7	5046.0	5015.8	4948.7	4864.8	4666.9	4371.7	3969.0	3891.9	3341.6
12.5°	5173.5	5173.5	5207.1	5257.4	5267.5	5240.6	5059.4	4764.2	4304.6	4224.0	3563.1
15°	5029.2	5046.0	5119.8	5280.9	5448.6	5559.3	5445.3	5170.2	4673.6	4586.4	3824.8
17.5°	4989.0	5005.8	5056.1	5197.0	5421.8	5717.0	5774.1	5562.7	5022.5	4948.7	4093.2
20°	5103.1	5119.8	5163.4	5284.2	5455.3	5753.9	5992.2	5941.8	5391.6	5314.4	4364.9
22.5°	5374.8	5384.9	5384.9	5478.8	5629.8	5851.2	6129.7	6300.8	5770.7	5686.8	4633.3
25°	5958.6	5938.5	5857.9	5811.0	5908.3	6089.4	6304.2	6616.2	6193.5	6079.4	4921.9
27.5°	6723.6	6790.7	6596.1	6371.3	6297.5	6401.5	6549.1	6894.7	6602.8	6482.0	5183.6
30°	7760.3	7733.4	7478.4	7156.4	6837.6	6800.7	6851.0	7132.9	7012.1	6898.0	5475.5
32.5°	8612.5	8662.8	8394.4	8001.8	7525.4	7300.6	7246.9	7418.1	7448.3	7374.4	5821.0
35°	9488.1	9541.8	9280.1	8844.0	8277.0	7901.2	7746.9	7770.3	7988.4	7894.5	6183.4
37.5°	10273.2	10320.2	10061.8	9615.6	9048.6	8589.0	8367.5	8186.4	8511.8	8427.9	6565.9
40°	10870.4	10877.1	10702.7	10303.4	9766.6	9290.2	9038.6	8682.9	9065.4	9008.4	6965.1
42.5°	11293.2	11306.6	11179.1	10836.9	10340.3	9897.5	9692.8	9270.1	9702.9	9652.5	7428.1
45°	11491.1	11514.6	11501.2	11185.8	10773.1	10390.6	10323.5	9894.1	10400.7	10353.7	7961.6
47.5°	11303.2	11303.2	11474.3	11430.7	11051.6	10796.6	10873.8	10545.0	11159.0	11115.3	8505.1
50°	10521.5	10531.6	10880.5	11380.4	11159.0	11101.9	11343.5	11182.4	11846.7	11873.6	9156.0
52.5°	8468.2	8451.4	9629.0	10588.6	11085.1	11239.5	11776.3	11833.3	12672.1	12752.6	9803.5
55°	6327.7	6317.6	7444.9	9186.2	10568.5	11169.0	12017.9	12413.8	13376.7	13427.0	10286.6
57.5°	5009.1	4982.3	5603.0	7404.6	9400.9	10853.6	12027.9	12524.5	13769.2	13856.4	10756.3
60°	3851.6	3828.1	4291.1	5509.0	7746.9	10014.9	11739.4	12531.2	14148.3	14302.7	11387.1
62.5°	2754.5	2781.4	3137.0	3952.3	5958.6	8830.5	11363.6	12625.1	14822.7	14997.2	12282.9
65°	1858.7	1845.3	2140.5	2690.8	4237.5	7236.9	10786.5	12823.1	16037.2	16342.5	13356.5
67.5°	1291.7	1301.8	1436.0	1751.3	2690.8	5556.0	9827.0	12933.8	17292.0	17530.2	14108.1
70°	932.7	946.1	1019.9	1177.6	1644.0	3767.7	8307.1	12427.2	17630.9	17838.9	13584.7
72.5°	614.0	640.8	751.5	835.4	1050.1	2358.6	6119.6	10706.0	16171.4	16325.8	11397.2
75°	332.2	338.9	483.1	624.0	748.2	1469.5	3650.3	7220.1	12098.4	12048.0	7515.4
77.5°	258.3	268.4	298.6	446.2	503.3	808.6	1442.7	3261.1	5730.5	5576.1	2563.3
80°	157.7	164.4	208.0	265.1	352.3	469.7	422.7	885.7	1164.2	1090.4	375.8
82.5°	93.9	100.7	124.1	221.4	278.5	221.4	147.6	214.7	218.1	214.7	93.9
85°	16.8	16.8	87.2	154.3	147.6	63.7	87.2	70.5	63.7	67.1	20.1
87.5°	0.0	0.0	33.6	47.0	67.1	23.5	33.6	16.8	16.8	16.8	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P400317
 CATALOG NUMBER: ARCH-L-PA3-260-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5	2697.5
2.5°	2721.0	2606.9	2372.0	2167.4	1962.7	1811.7	1697.7	1580.2	1540.0	1489.7	1462.8
5°	2767.9	2543.1	2076.8	1704.4	1389.0	1147.4	993.1	899.2	838.8	795.2	785.1
7.5°	2838.4	2492.8	1838.6	1335.3	989.7	748.2	620.7	556.9	523.4	503.3	496.6
10°	2922.3	2449.2	1603.7	1040.1	697.9	526.7	456.3	429.4	416.0	409.3	406.0
12.5°	3039.7	2432.4	1405.8	801.9	526.7	432.8	395.9	379.1	369.1	359.0	355.6
15°	3194.0	2439.1	1224.6	620.7	436.2	385.8	355.6	338.9	325.4	315.4	315.4
17.5°	3355.1	2449.2	1046.8	503.3	395.9	352.3	318.7	295.2	285.2	275.1	271.8
20°	3506.0	2445.8	875.7	429.4	359.0	315.4	281.8	258.3	241.6	231.5	231.5
22.5°	3650.3	2425.7	714.6	385.8	328.8	278.5	241.6	218.1	204.7	194.6	194.6
25°	3804.6	2385.5	583.8	352.3	291.9	244.9	208.0	184.5	174.5	164.4	164.4
27.5°	3925.4	2318.4	476.4	322.1	258.3	211.4	177.8	157.7	147.6	140.9	140.9
30°	4056.3	2221.1	395.9	288.5	224.8	181.2	151.0	134.2	124.1	120.8	120.8
32.5°	4200.5	2113.7	338.9	255.0	191.2	154.3	127.5	117.4	107.4	104.0	104.0
35°	4368.3	2019.8	305.3	221.4	167.8	130.8	110.7	100.7	93.9	93.9	93.9
37.5°	4559.5	1922.5	275.1	194.6	144.3	110.7	93.9	90.6	87.2	83.9	83.9
40°	4767.6	1818.4	248.3	171.1	124.1	93.9	80.5	80.5	77.2	77.2	77.2
42.5°	5002.4	1727.9	224.8	151.0	107.4	80.5	70.5	70.5	67.1	67.1	67.1
45°	5257.4	1644.0	204.7	134.2	93.9	70.5	63.7	60.4	57.0	57.0	57.0
47.5°	5559.3	1597.0	187.9	117.4	80.5	60.4	53.7	50.3	47.0	43.6	43.6
50°	5945.2	1617.1	171.1	97.3	70.5	50.3	43.6	40.3	36.9	33.6	33.6
52.5°	6250.5	1607.1	147.6	83.9	57.0	40.3	33.6	30.2	26.8	23.5	23.5
55°	6471.9	1566.8	127.5	70.5	43.6	33.6	26.8	20.1	16.8	16.8	16.8
57.5°	6690.0	1526.6	107.4	57.0	33.6	23.5	16.8	13.4	13.4	13.4	13.4
60°	7028.9	1469.5	93.9	47.0	26.8	16.8	10.1	10.1	6.7	6.7	6.7
62.5°	7441.5	1399.1	77.2	40.3	20.1	13.4	6.7	6.7	0.0	0.0	0.0
65°	7894.5	1274.9	63.7	30.2	16.8	10.1	6.7	0.0	0.0	0.0	0.0
67.5°	7790.5	1023.3	53.7	20.1	13.4	6.7	3.4	0.0	0.0	0.0	0.0
70°	6891.3	691.1	43.6	16.8	10.1	6.7	3.4	0.0	0.0	0.0	0.0
72.5°	5398.3	409.3	30.2	13.4	6.7	3.4	0.0	0.0	0.0	0.0	0.0
75°	3455.7	204.7	20.1	10.1	6.7	3.4	0.0	0.0	0.0	0.0	0.0
77.5°	1157.5	100.7	13.4	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	164.4	33.6	6.7	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.9	13.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.4	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	3.4	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)