

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: P400434

Luminaire Tested: **ARCH-L-PA3-280-740-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400434
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-PA3-280-740-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 28584 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

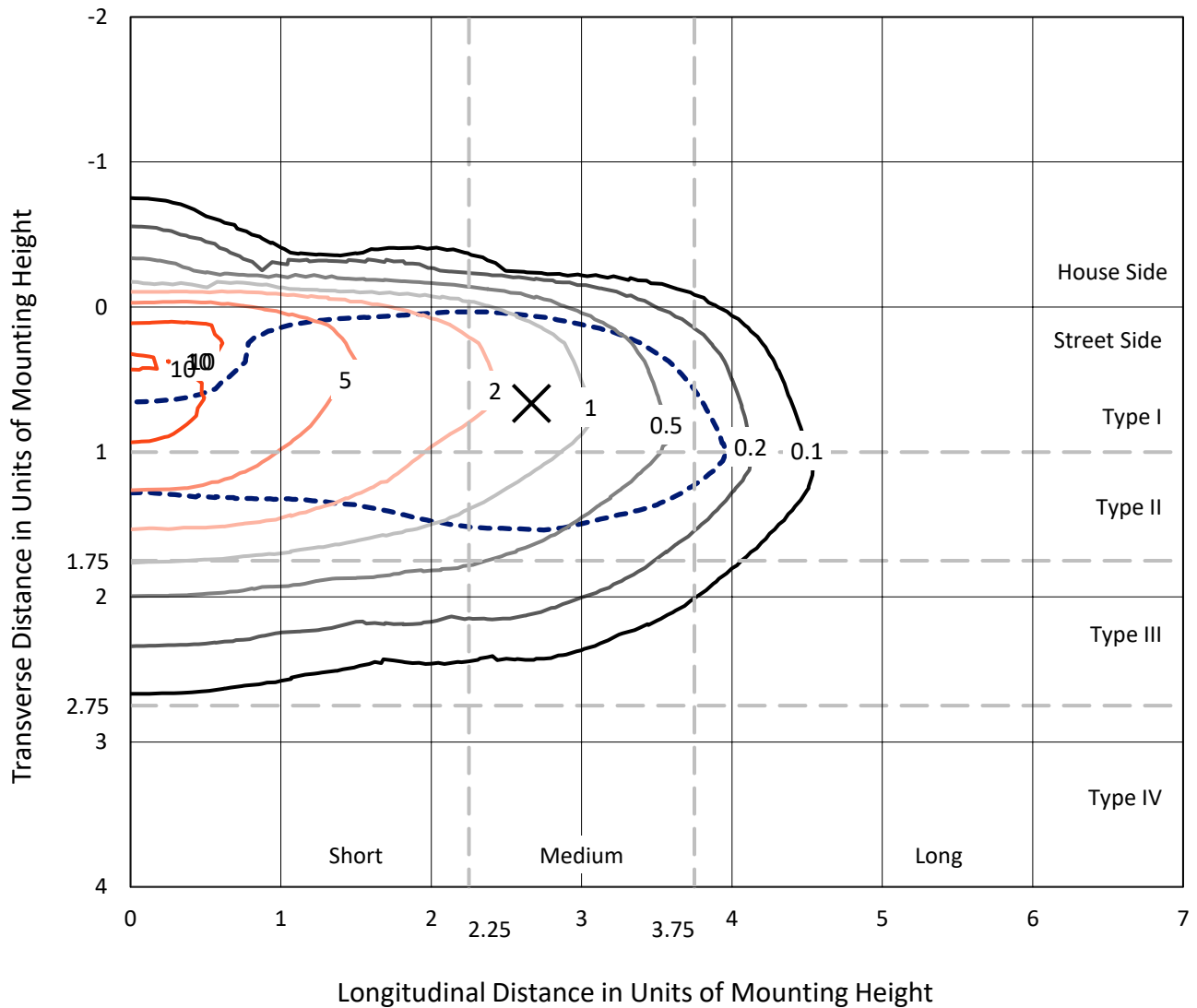
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400434
 CATALOG NUMBER: ARCH-L-PA3-280-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

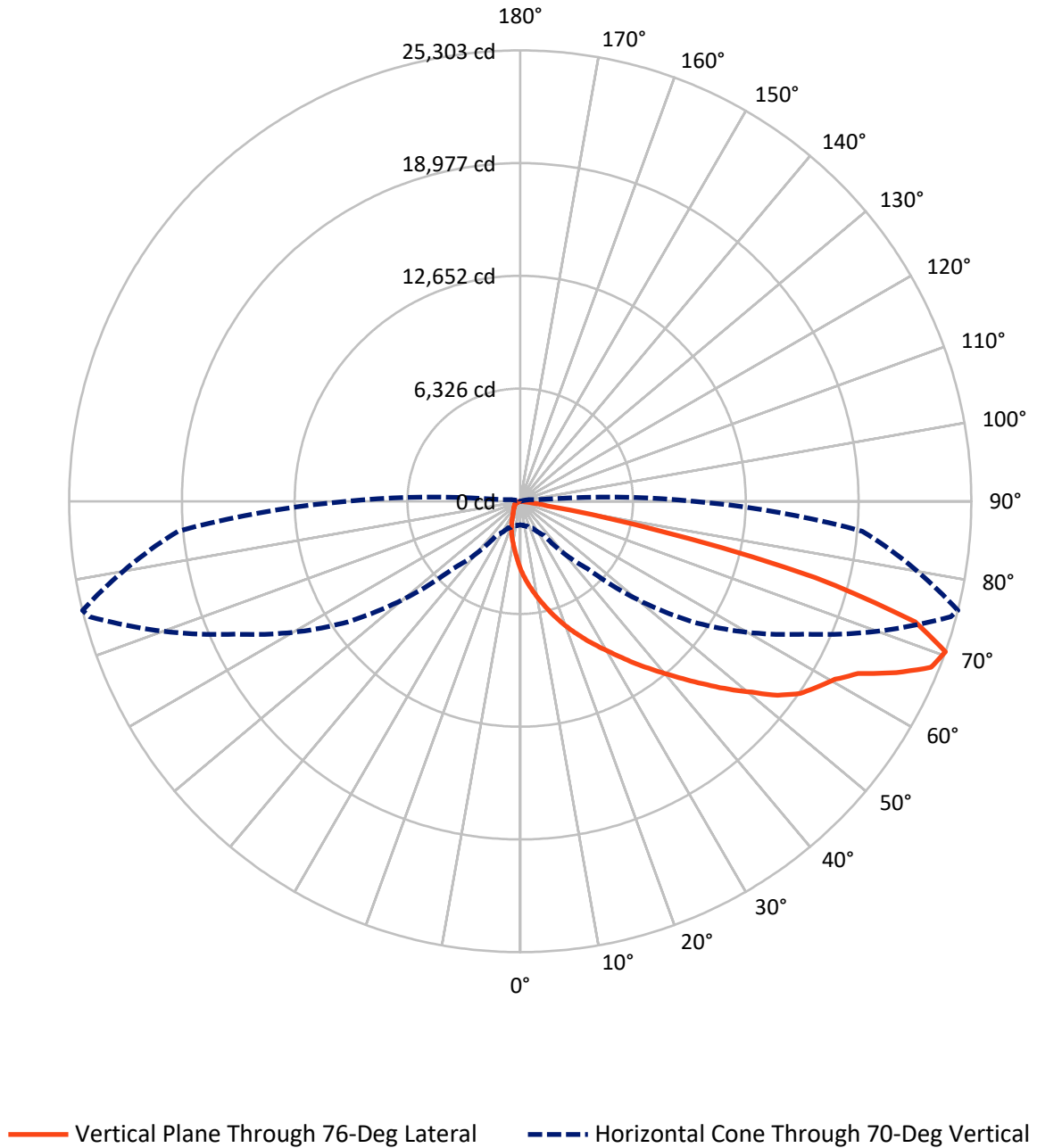
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P400434
CATALOG NUMBER: ARCH-L-PA3-280-740-U-T2R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1348.1	0.0	1348.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	27235.9	0.0	27235.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	28584.0	0.0	28584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.4	1.3
10°-20°	1163.4	4.1
20°-30°	2166.6	7.6
30°-40°	3832.2	13.4
40°-50°	5860.4	20.5
50°-60°	6644.2	23.2
60°-70°	5695.8	19.9
70°-80°	2758.7	9.7
80°-90°	102.3	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°	28584.0	100.0
0°-180°	28584.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400434

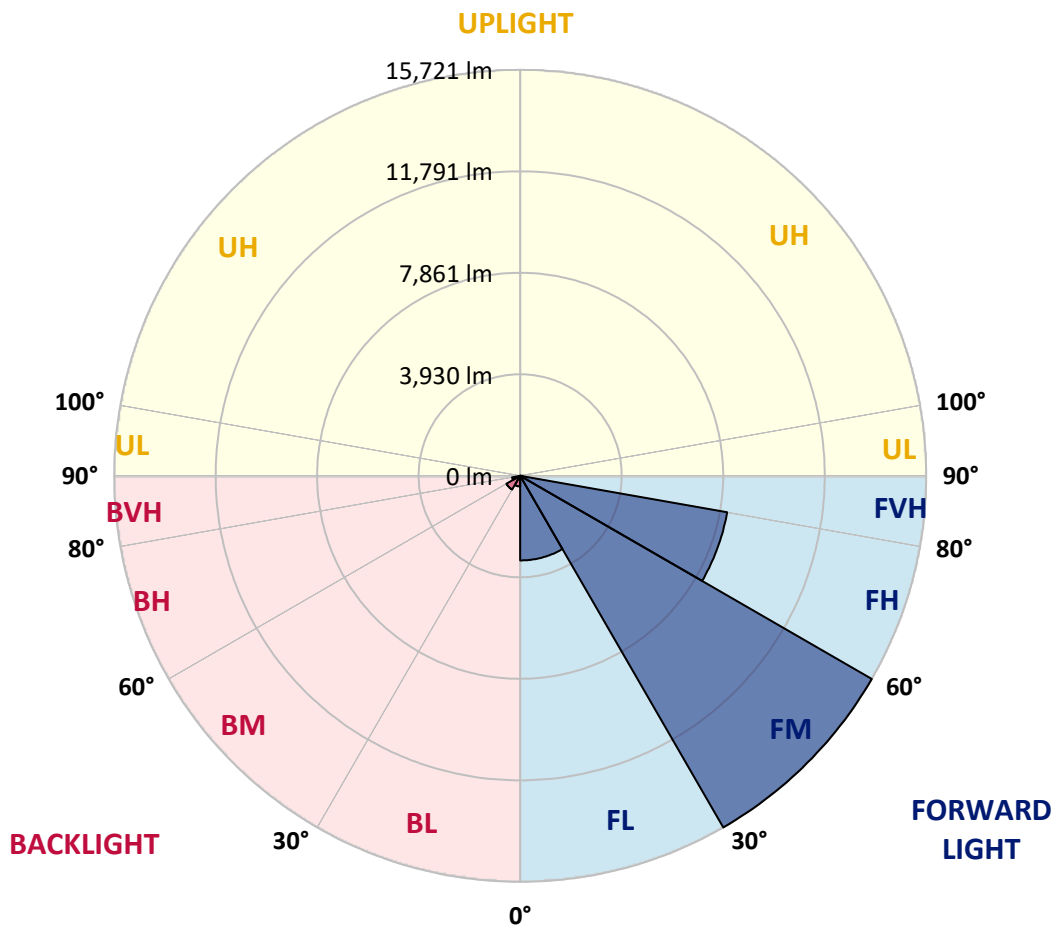
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3276.8	11.5			
FM (30°-60°)	15721.4	55.0			
FH (60°-80°)	8137.0	28.5			G4/12000
FVH (80°-90°)	100.6	0.4			G2/225
BL (0°-30°)	413.5	1.4	B1/500		
BM (30°-60°)	615.4	2.2	B1/1000		
BH (60°-80°)	317.4	1.1	B1/500		G1/500
BVH (80°-90°)	1.8	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-G4

Type II Medium





REPORT NUMBER: P400434

CATALOG NUMBER: ARCH-L-PA3-280-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3826.2	3826.2	3826.2	3826.2	3826.2	3826.2	3826.2	3826.2	3826.2	3826.2	3826.2
2.5°	5230.0	5201.5	5172.9	5063.5	4963.5	4873.1	4701.8	4478.1	4278.2	4235.4	4002.2
5°	6143.7	6110.4	6067.6	5958.1	5829.6	5677.4	5425.1	5082.5	4730.3	4654.2	4221.1
7.5°	6762.4	6733.8	6672.0	6619.6	6491.1	6343.6	6062.8	5663.1	5177.7	5082.5	4473.4
10°	7185.9	7166.9	7157.4	7114.5	7019.4	6900.4	6619.6	6200.8	5629.8	5520.3	4739.9
12.5°	7338.2	7338.2	7385.8	7457.2	7471.5	7433.4	7176.4	6757.6	6105.7	5991.4	5053.9
15°	7133.6	7157.4	7262.1	7490.5	7728.4	7885.5	7723.7	7333.5	6629.1	6505.4	5425.1
17.5°	7076.5	7100.3	7171.7	7371.5	7690.4	8109.2	8190.1	7890.2	7124.1	7019.4	5805.9
20°	7238.3	7262.1	7323.9	7495.3	7738.0	8161.5	8499.4	8428.0	7647.5	7538.1	6191.3
22.5°	7623.8	7638.0	7638.0	7771.3	7985.4	8299.5	8694.5	8937.2	8185.3	8066.3	6572.0
25°	8451.8	8423.2	8309.0	8242.4	8380.4	8637.4	8942.0	9384.5	8784.9	8623.1	6981.3
27.5°	9536.8	9632.0	9356.0	9037.1	8932.4	9080.0	9289.4	9779.5	9365.5	9194.2	7352.5
30°	11007.3	10969.3	10607.6	10150.7	9698.6	9646.3	9717.7	10117.4	9946.1	9784.3	7766.5
32.5°	12216.1	12287.5	11906.8	11350.0	10674.2	10355.4	10279.2	10521.9	10564.7	10460.1	8256.7
35°	13458.2	13534.3	13163.1	12544.4	11740.2	11207.2	10988.3	11021.6	11330.9	11197.7	8770.6
37.5°	14571.7	14638.4	14271.9	13639.0	12834.7	12182.8	11868.7	11611.7	12073.3	11954.3	9313.2
40°	15418.8	15428.3	15180.9	14614.6	13853.1	13177.4	12820.5	12316.0	12858.5	12777.6	9879.5
42.5°	16018.4	16037.5	15856.6	15371.2	14666.9	14038.7	13748.4	13148.8	13762.7	13691.3	10536.2
45°	16299.2	16332.5	16313.5	15866.2	15280.8	14738.3	14643.1	14034.0	14752.6	14686.0	11292.9
47.5°	16032.7	16032.7	16275.4	16213.6	15675.8	15314.1	15423.6	14957.2	15828.1	15766.2	12063.8
50°	14923.9	14938.2	15433.1	16142.2	15828.1	15747.2	16089.8	15861.4	16803.7	16841.7	12987.0
52.5°	12011.5	11987.7	13658.0	15019.1	15723.4	15942.3	16703.7	16784.6	17974.3	18088.6	13905.5
55°	8975.3	8961.0	10560.0	13029.9	14990.5	15842.4	17046.4	17607.9	18973.7	19045.1	14590.8
57.5°	7105.0	7067.0	7947.4	10502.9	13334.4	15395.0	17060.6	17765.0	19530.5	19654.2	15257.0
60°	5463.2	5429.9	6086.6	7814.1	10988.3	14205.3	16651.4	17774.5	20068.3	20287.2	16151.7
62.5°	3907.1	3945.1	4449.6	5606.0	8451.8	12525.4	16118.4	17907.7	21024.8	21272.3	17422.3
65°	2636.4	2617.4	3036.2	3816.6	6010.5	10264.9	15299.8	18188.5	22747.5	23180.6	18945.2
67.5°	1832.2	1846.5	2036.8	2484.1	3816.6	7880.7	13938.8	18345.5	24527.3	24865.2	20011.2
70°	1323.0	1342.0	1446.7	1670.4	2331.9	5344.2	11783.0	17626.9	25008.0	25303.0	19268.8
72.5°	870.9	908.9	1066.0	1185.0	1489.5	3345.5	8680.2	15185.6	22937.9	23156.8	16166.0
75°	471.1	480.6	685.3	885.2	1061.2	2084.4	5177.7	10241.1	17160.6	17089.2	10659.9
77.5°	366.4	380.7	423.5	632.9	713.8	1146.9	2046.3	4625.6	8128.2	7909.3	3635.8
80°	223.7	233.2	295.1	376.0	499.7	666.2	599.6	1256.3	1651.3	1546.6	533.0
82.5°	133.2	142.8	176.1	314.1	395.0	314.1	209.4	304.6	309.3	304.6	133.2
85°	23.8	23.8	123.7	218.9	209.4	90.4	123.7	99.9	90.4	95.2	28.6
87.5°	0.0	0.0	47.6	66.6	95.2	33.3	47.6	23.8	23.8	23.8	14.3
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: P400434
 CATALOG NUMBER: ARCH-L-PA3-280-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3826.2	3826.2	3826.2	3826.2	3826.2	3826.2	3826.2	3826.2	3826.2	3826.2	3826.2
2.5°	3859.5	3697.7	3364.5	3074.2	2784.0	2569.8	2408.0	2241.4	2184.3	2112.9	2074.9
5°	3926.1	3607.2	2945.8	2417.5	1970.2	1627.5	1408.6	1275.4	1189.7	1127.9	1113.6
7.5°	4026.0	3535.9	2607.9	1894.0	1403.9	1061.2	880.4	790.0	742.4	713.8	704.3
10°	4145.0	3474.0	2274.8	1475.3	989.9	747.1	647.2	609.1	590.1	580.6	575.8
12.5°	4311.6	3450.2	1994.0	1137.4	747.1	613.9	561.5	537.8	523.5	509.2	504.4
15°	4530.5	3459.7	1737.0	880.4	618.7	547.3	504.4	480.6	461.6	447.3	447.3
17.5°	4758.9	3474.0	1484.8	713.8	561.5	499.7	452.1	418.8	404.5	390.2	385.5
20°	4973.0	3469.2	1242.1	609.1	509.2	447.3	399.7	366.4	342.6	328.4	328.4
22.5°	5177.7	3440.7	1013.6	547.3	466.4	395.0	342.6	309.3	290.3	276.0	276.0
25°	5396.6	3383.6	828.0	499.7	414.0	347.4	295.1	261.7	247.5	233.2	233.2
27.5°	5567.9	3288.4	675.8	456.9	366.4	299.8	252.2	223.7	209.4	199.9	199.9
30°	5753.5	3150.4	561.5	409.3	318.8	257.0	214.2	190.4	176.1	171.3	171.3
32.5°	5958.1	2998.1	480.6	361.7	271.3	218.9	180.8	166.6	152.3	147.5	147.5
35°	6196.1	2864.9	433.1	314.1	237.9	185.6	157.0	142.8	133.2	133.2	133.2
37.5°	6467.3	2726.8	390.2	276.0	204.6	157.0	133.2	128.5	123.7	119.0	119.0
40°	6762.4	2579.3	352.2	242.7	176.1	133.2	114.2	114.2	109.5	109.5	109.5
42.5°	7095.5	2450.8	318.8	214.2	152.3	114.2	99.9	99.9	95.2	95.2	95.2
45°	7457.2	2331.9	290.3	190.4	133.2	99.9	90.4	85.7	80.9	80.9	80.9
47.5°	7885.5	2265.2	266.5	166.6	114.2	85.7	76.1	71.4	66.6	61.9	61.9
50°	8432.8	2293.8	242.7	138.0	99.9	71.4	61.9	57.1	52.3	47.6	47.6
52.5°	8865.8	2279.5	209.4	119.0	80.9	57.1	47.6	42.8	38.1	33.3	33.3
55°	9179.9	2222.4	180.8	99.9	61.9	47.6	38.1	28.6	23.8	23.8	23.8
57.5°	9489.2	2165.3	152.3	80.9	47.6	33.3	23.8	19.0	19.0	19.0	19.0
60°	9969.9	2084.4	133.2	66.6	38.1	23.8	14.3	14.3	9.5	9.5	9.5
62.5°	10555.2	1984.5	109.5	57.1	28.6	19.0	9.5	9.5	0.0	0.0	0.0
65°	11197.7	1808.4	90.4	42.8	23.8	14.3	9.5	0.0	0.0	0.0	0.0
67.5°	11050.2	1451.5	76.1	28.6	19.0	9.5	4.8	0.0	0.0	0.0	0.0
70°	9774.8	980.3	61.9	23.8	14.3	9.5	4.8	0.0	0.0	0.0	0.0
72.5°	7657.1	580.6	42.8	19.0	9.5	4.8	0.0	0.0	0.0	0.0	0.0
75°	4901.7	290.3	28.6	14.3	9.5	4.8	0.0	0.0	0.0	0.0	0.0
77.5°	1641.8	142.8	19.0	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	233.2	47.6	9.5	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	52.3	19.0	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.0	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	4.8	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)