

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: P399129

Luminaire Tested: **ARCH-L-PA3-100-730-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399129
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-PA3-100-730-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 440mA 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: 12159 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

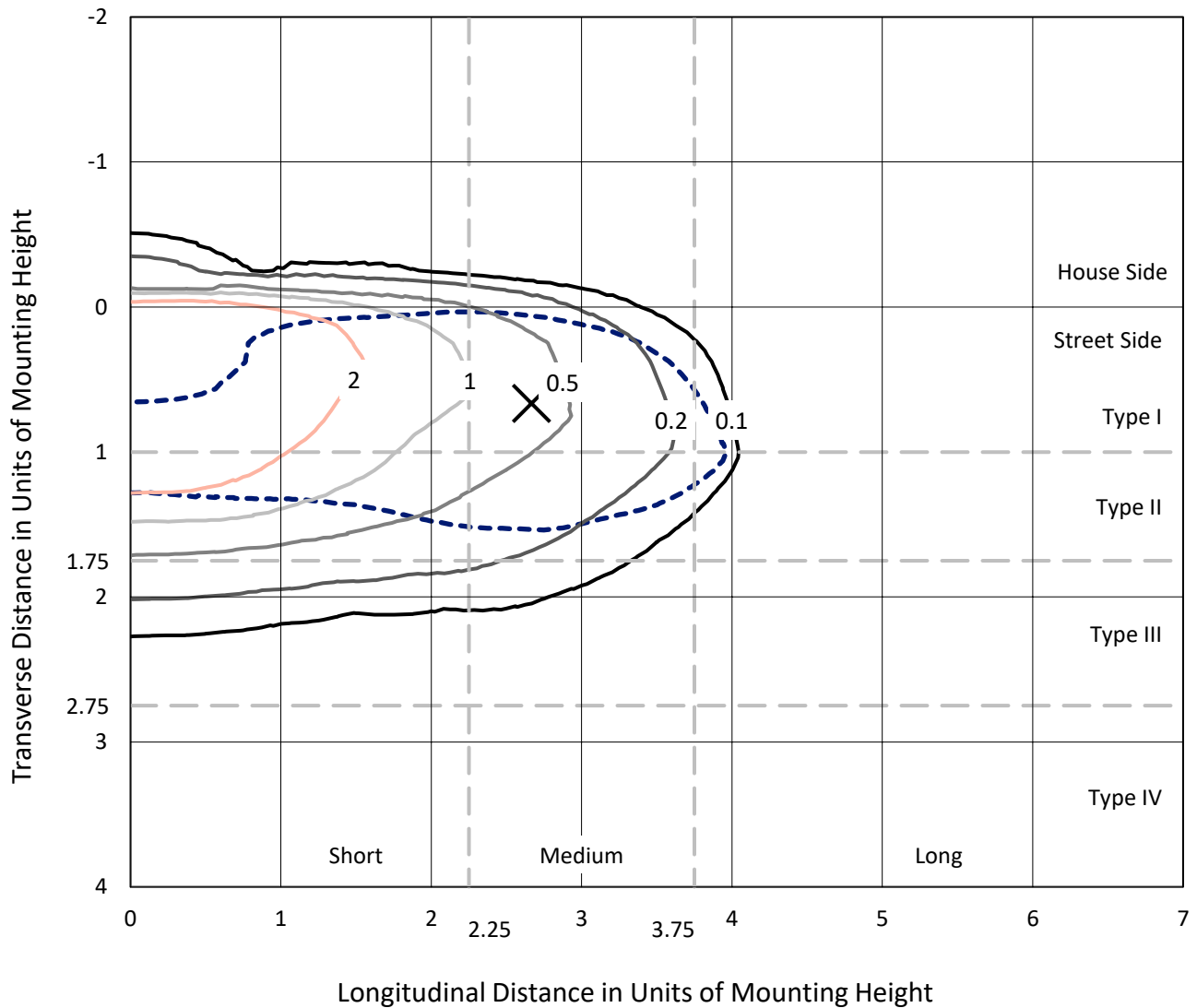
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

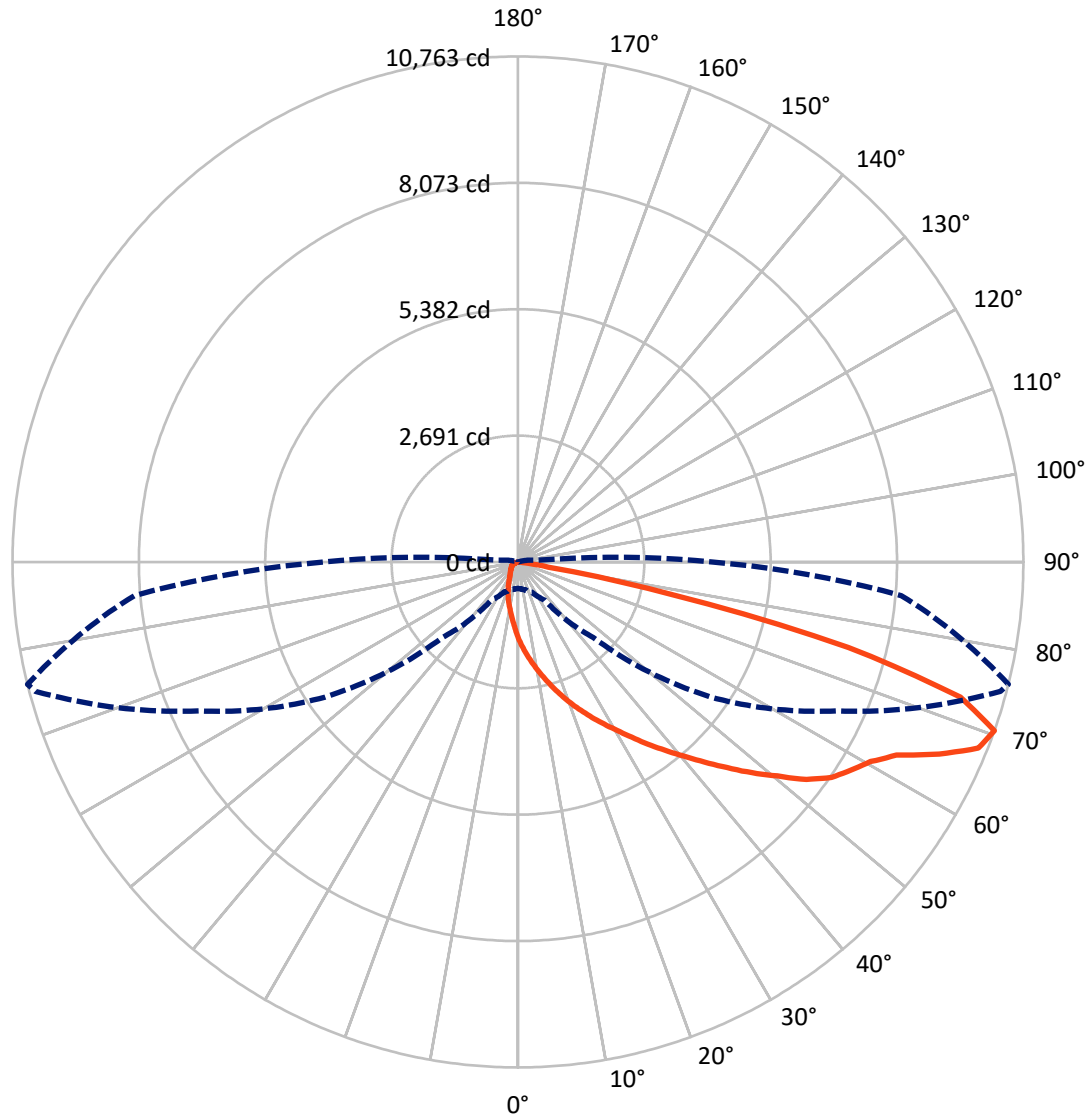
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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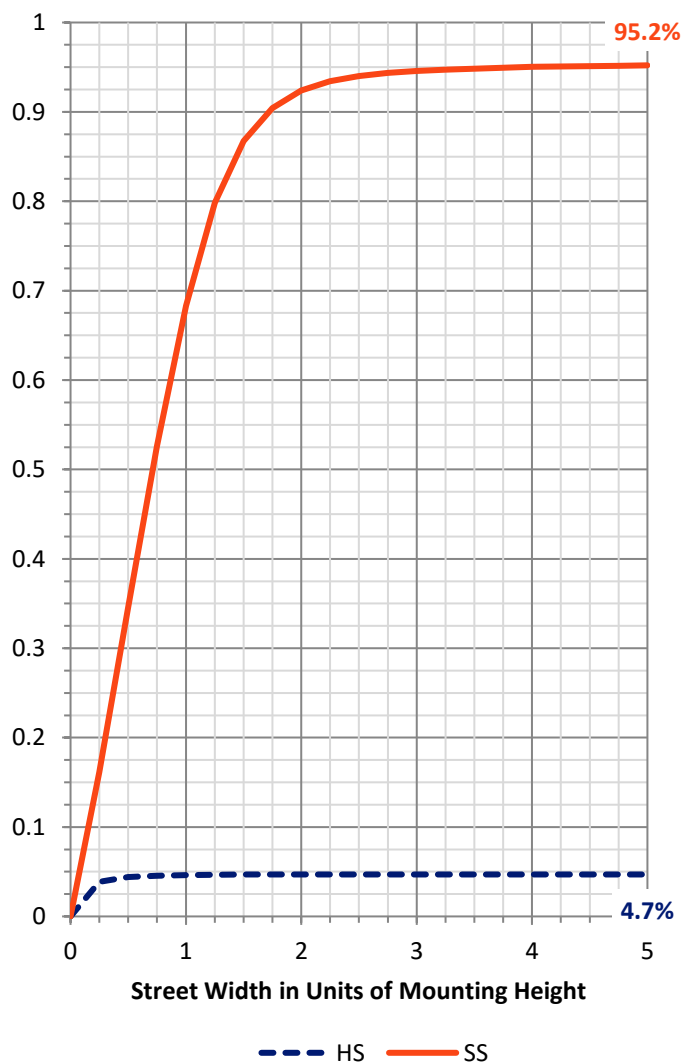
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	573.4	0.0	573.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	11585.5	0.0	11585.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	12159.0	0.0	12159.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	1.3
10°-20°	494.9	4.1
20°-30°	921.6	7.6
30°-40°	1630.1	13.4
40°-50°	2492.9	20.5
50°-60°	2826.3	23.2
60°-70°	2422.8	19.9
70°-80°	1173.5	9.7
80°-90°	43.5	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°	12159.0	100.0
0°-180°	12159.0	100.0

Coefficient of Utilization

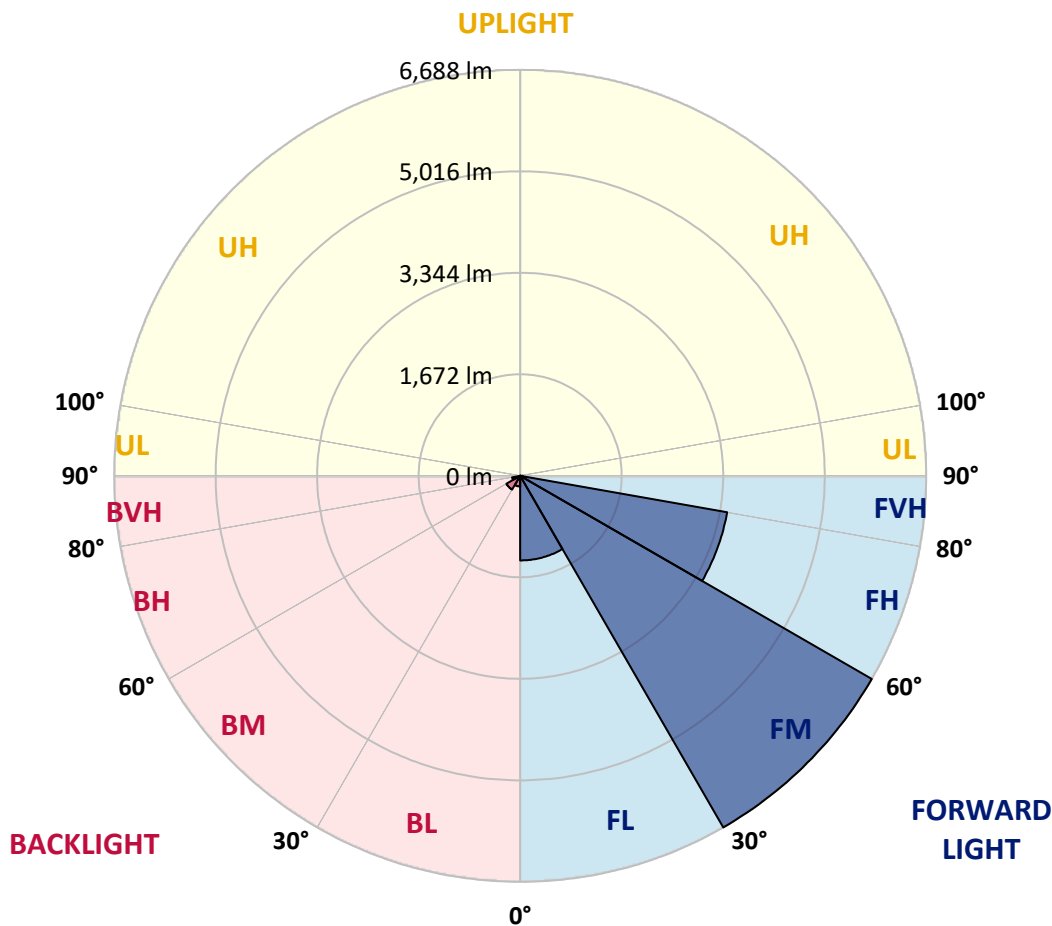


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1393.9	11.5			
FM (30°-60°)	6687.6	55.0			
FH (60°-80°)	3461.3	28.5			G2/5000
FVH (80°-90°)	42.8	0.4			G1/100
BL (0°-30°)	175.9	1.4	B1/500		
BM (30°-60°)	261.8	2.2	B1/1000		
BH (60°-80°)	135.0	1.1	B1/500		G1/500
BVH (80°-90°)	0.7	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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1627.6	1627.6	1627.6	1627.6	1627.6	1627.6	1627.6	1627.6	1627.6	1627.6	1627.6
2.5°	2224.7	2212.6	2200.4	2153.9	2111.4	2072.9	2000.0	1904.9	1819.9	1801.7	1702.5
5°	2613.4	2599.2	2581.0	2534.5	2479.8	2415.0	2307.7	2162.0	2012.2	1979.8	1795.6
7.5°	2876.6	2864.4	2838.1	2815.8	2761.2	2698.4	2579.0	2409.0	2202.5	2162.0	1902.9
10°	3056.7	3048.6	3044.6	3026.4	2985.9	2935.3	2815.8	2637.7	2394.8	2348.2	2016.2
12.5°	3121.5	3121.5	3141.8	3172.1	3178.2	3162.0	3052.7	2874.5	2597.2	2548.6	2149.8
15°	3034.5	3044.6	3089.1	3186.3	3287.5	3354.3	3285.5	3119.5	2819.9	2767.3	2307.7
17.5°	3010.2	3020.3	3050.7	3135.7	3271.3	3449.5	3483.9	3356.3	3030.4	2985.9	2469.7
20°	3079.0	3089.1	3115.4	3188.3	3291.6	3471.7	3615.5	3585.1	3253.1	3206.5	2633.7
22.5°	3243.0	3249.0	3249.0	3305.7	3396.8	3530.4	3698.4	3801.7	3481.8	3431.2	2795.6
25°	3595.2	3583.1	3534.5	3506.1	3564.8	3674.2	3803.7	3992.0	3736.9	3668.1	2969.7
27.5°	4056.8	4097.2	3979.8	3844.2	3799.7	3862.4	3951.5	4160.0	3983.9	3911.0	3127.6
30°	4682.3	4666.1	4512.2	4317.9	4125.6	4103.3	4133.7	4303.7	4230.8	4162.0	3303.7
32.5°	5196.5	5226.8	5064.9	4828.0	4540.6	4404.9	4372.5	4475.8	4494.0	4449.5	3512.2
35°	5724.8	5757.2	5599.3	5336.1	4994.0	4767.3	4674.2	4688.3	4819.9	4763.2	3730.8
37.5°	6198.5	6226.8	6071.0	5801.7	5459.6	5182.3	5048.7	4939.4	5135.7	5085.1	3961.6
40°	6558.8	6562.9	6457.6	6216.7	5892.8	5605.4	5453.5	5239.0	5469.7	5435.3	4202.5
42.5°	6813.9	6822.0	6745.1	6538.6	6239.0	5971.8	5848.3	5593.2	5854.4	5824.0	4481.9
45°	6933.3	6947.5	6939.4	6749.1	6500.1	6269.3	6228.9	5969.7	6275.4	6247.1	4803.7
47.5°	6820.0	6820.0	6923.2	6896.9	6668.1	6514.3	6560.8	6362.5	6732.9	6706.6	5131.7
50°	6348.3	6354.4	6564.9	6866.5	6732.9	6698.5	6844.3	6747.1	7147.9	7164.1	5524.4
52.5°	5109.4	5099.3	5809.8	6388.8	6688.4	6781.5	7105.4	7139.8	7645.9	7694.5	5915.1
55°	3817.9	3811.8	4492.0	5542.6	6376.6	6739.0	7251.1	7490.0	8071.0	8101.4	6206.6
57.5°	3022.3	3006.1	3380.6	4467.7	5672.2	6548.7	7257.2	7556.8	8307.8	8360.5	6490.0
60°	2323.9	2309.8	2589.1	3323.9	4674.2	6042.6	7083.1	7560.9	8536.6	8629.7	6870.6
62.5°	1662.0	1678.2	1892.7	2384.7	3595.2	5328.0	6856.4	7617.5	8943.5	9048.7	7411.1
65°	1121.5	1113.4	1291.5	1623.5	2556.7	4366.5	6508.2	7737.0	9676.3	9860.5	8058.9
67.5°	779.4	785.4	866.4	1056.7	1623.5	3352.3	5929.3	7803.8	10433.4	10577.1	8512.3
70°	562.8	570.9	615.4	710.5	991.9	2273.3	5012.2	7498.1	10637.8	10763.4	8196.5
72.5°	370.5	386.6	453.4	504.1	633.6	1423.1	3692.4	6459.6	9757.3	9850.4	6876.6
75°	200.4	204.5	291.5	376.5	451.4	886.7	2202.5	4356.4	7299.7	7269.4	4534.5
77.5°	155.9	161.9	180.2	269.2	303.6	487.9	870.5	1967.6	3457.6	3364.4	1546.6
80°	95.1	99.2	125.5	159.9	212.6	283.4	255.1	534.4	702.4	657.9	226.7
82.5°	56.7	60.7	74.9	133.6	168.0	133.6	89.1	129.6	131.6	129.6	56.7
85°	10.1	10.1	52.6	93.1	89.1	38.5	52.6	42.5	38.5	40.5	12.1
87.5°	0.0	0.0	20.2	28.3	40.5	14.2	20.2	10.1	10.1	10.1	6.1
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°	1627.6	1627.6	1627.6	1627.6	1627.6	1627.6	1627.6	1627.6	1627.6	1627.6	1627.6
2.5°	1641.7	1572.9	1431.2	1307.7	1184.2	1093.1	1024.3	953.5	929.2	898.8	882.6
5°	1670.1	1534.4	1253.1	1028.4	838.1	692.3	599.2	542.5	506.1	479.8	473.7
7.5°	1712.6	1504.1	1109.3	805.7	597.2	451.4	374.5	336.0	315.8	303.6	299.6
10°	1763.2	1477.8	967.6	627.5	421.1	317.8	275.3	259.1	251.0	247.0	244.9
12.5°	1834.0	1467.6	848.2	483.8	317.8	261.1	238.9	228.7	222.7	216.6	214.6
15°	1927.2	1471.7	738.9	374.5	263.2	232.8	214.6	204.5	196.4	190.3	190.3
17.5°	2024.3	1477.8	631.6	303.6	238.9	212.6	192.3	178.1	172.1	166.0	164.0
20°	2115.4	1475.7	528.3	259.1	216.6	190.3	170.0	155.9	145.8	139.7	139.7
22.5°	2202.5	1463.6	431.2	232.8	198.4	168.0	145.8	131.6	123.5	117.4	117.4
25°	2295.6	1439.3	352.2	212.6	176.1	147.8	125.5	111.3	105.3	99.2	99.2
27.5°	2368.5	1398.8	287.5	194.3	155.9	127.5	107.3	95.1	89.1	85.0	85.0
30°	2447.4	1340.1	238.9	174.1	135.6	109.3	91.1	81.0	74.9	72.9	72.9
32.5°	2534.5	1275.3	204.5	153.8	115.4	93.1	76.9	70.9	64.8	62.8	62.8
35°	2635.7	1218.6	184.2	133.6	101.2	78.9	66.8	60.7	56.7	56.7	56.7
37.5°	2751.1	1159.9	166.0	117.4	87.0	66.8	56.7	54.7	52.6	50.6	50.6
40°	2876.6	1097.2	149.8	103.2	74.9	56.7	48.6	48.6	46.6	46.6	46.6
42.5°	3018.3	1042.5	135.6	91.1	64.8	48.6	42.5	42.5	40.5	40.5	40.5
45°	3172.1	991.9	123.5	81.0	56.7	42.5	38.5	36.4	34.4	34.4	34.4
47.5°	3354.3	963.6	113.4	70.9	48.6	36.4	32.4	30.4	28.3	26.3	26.3
50°	3587.1	975.7	103.2	58.7	42.5	30.4	26.3	24.3	22.3	20.2	20.2
52.5°	3771.3	969.7	89.1	50.6	34.4	24.3	20.2	18.2	16.2	14.2	14.2
55°	3904.9	945.4	76.9	42.5	26.3	20.2	16.2	12.1	10.1	10.1	10.1
57.5°	4036.5	921.1	64.8	34.4	20.2	14.2	10.1	8.1	8.1	8.1	8.1
60°	4241.0	886.7	56.7	28.3	16.2	10.1	6.1	6.1	4.0	4.0	4.0
62.5°	4490.0	844.1	46.6	24.3	12.1	8.1	4.0	4.0	0.0	0.0	0.0
65°	4763.2	769.2	38.5	18.2	10.1	6.1	4.0	0.0	0.0	0.0	0.0
67.5°	4700.5	617.4	32.4	12.1	8.1	4.0	2.0	0.0	0.0	0.0	0.0
70°	4158.0	417.0	26.3	10.1	6.1	4.0	2.0	0.0	0.0	0.0	0.0
72.5°	3257.1	247.0	18.2	8.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	2085.1	123.5	12.1	6.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	698.4	60.7	8.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	99.2	20.2	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.3	8.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	2.0	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)