

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: P573548

Luminaire Tested: **ARCH-S-PA2-90-730-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-90-730-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8700 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

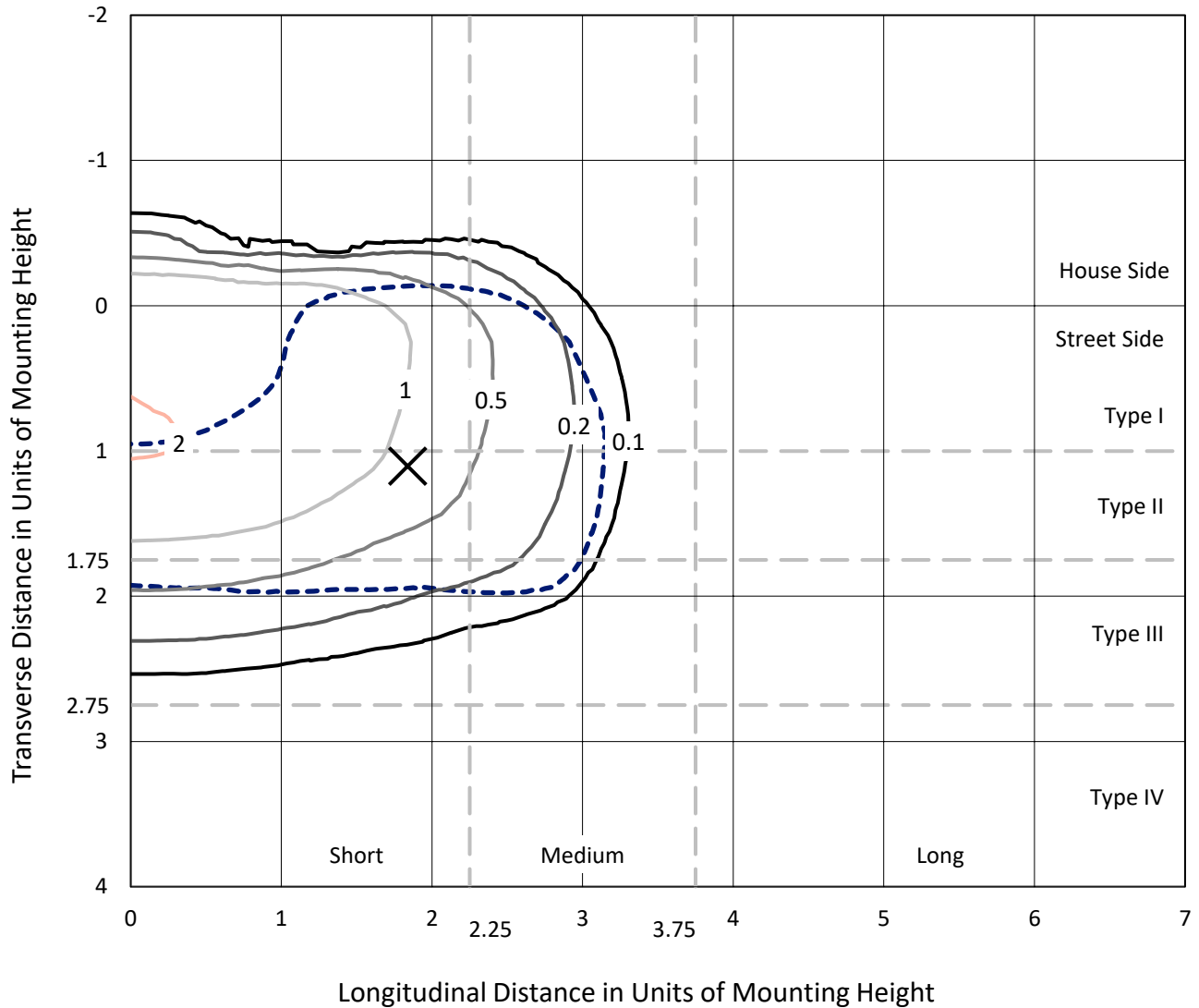
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

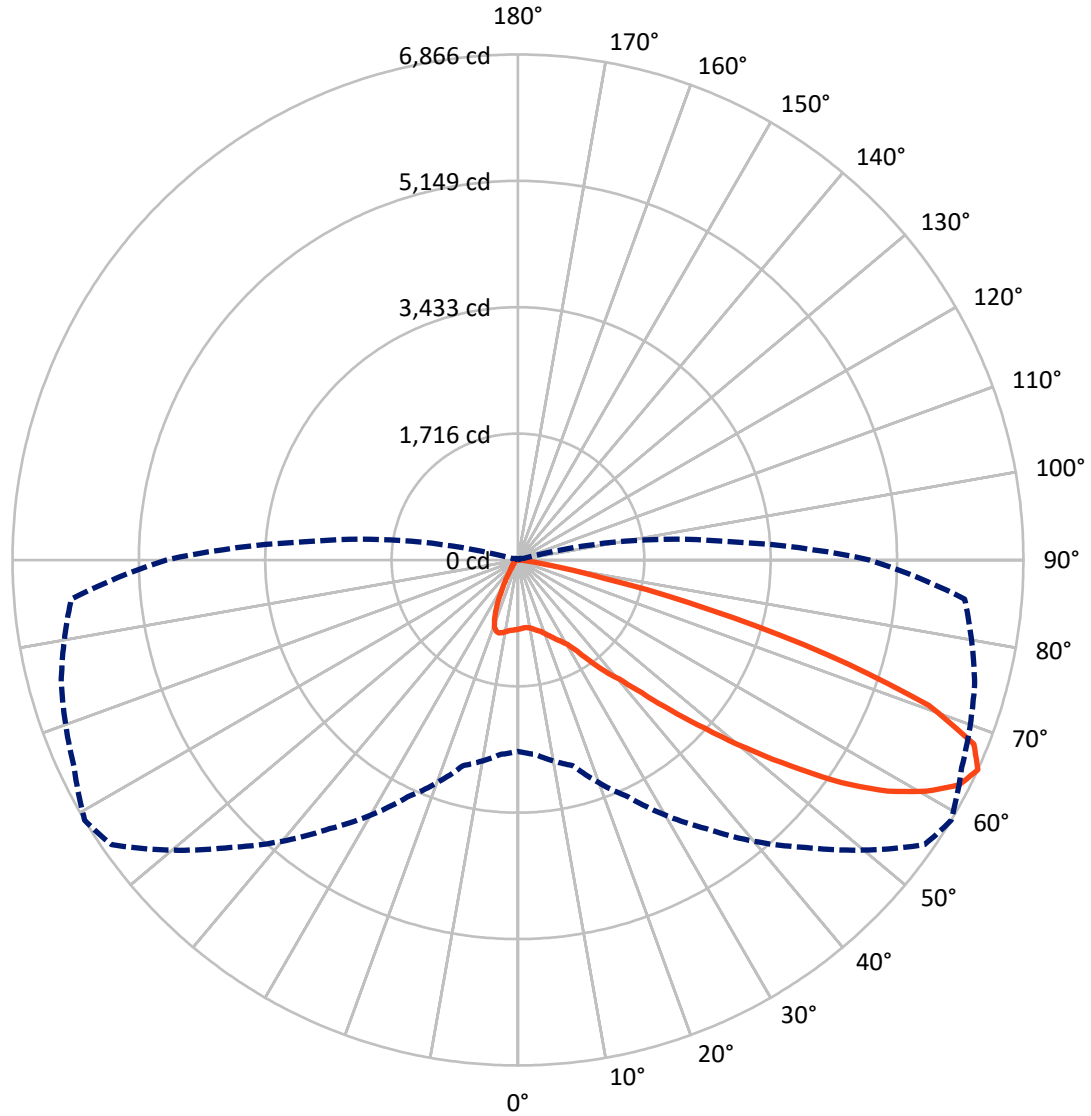
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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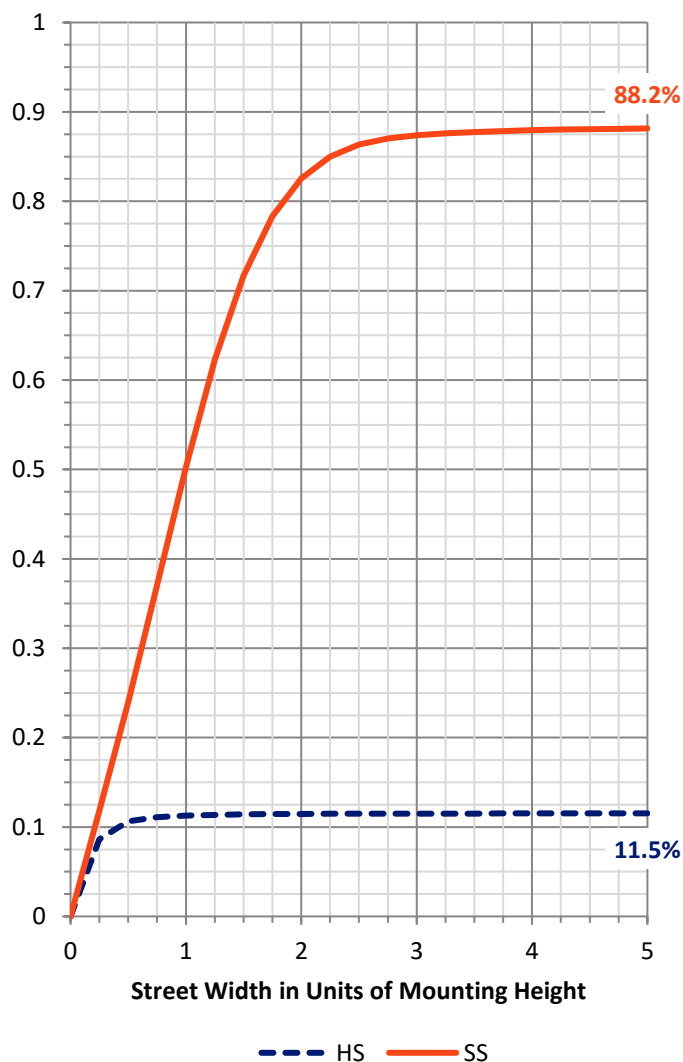
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1015.0	0.0	1015.0
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	7685.1	0.0	7685.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	8700.0	0.0	8700.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	1.0
10°-20°	252.4	2.9
20°-30°	428.7	4.9
30°-40°	759.3	8.7
40°-50°	1432.4	16.5
50°-60°	2423.5	27.9
60°-70°	2519.7	29.0
70°-80°	755.6	8.7
80°-90°	39.6	0.5
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°	8700.0	100.0
0°-180°	8700.0	100.0

Coefficient of Utilization



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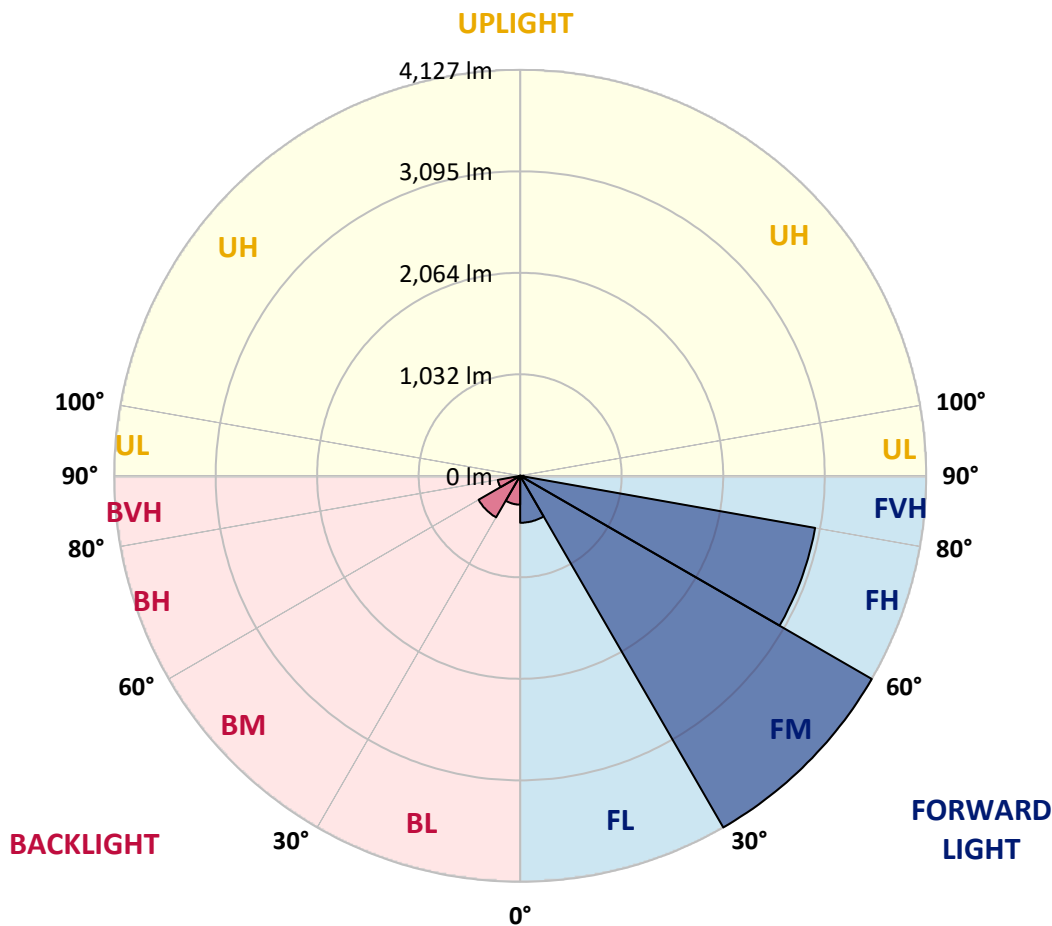
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	477.1	5.5			
FM (30°-60°)	4127.3	47.4			
FH (60°-80°)	3044.4	35.0			G2/5000
FVH (80°-90°)	36.3	0.4			G1/100
BL (0°-30°)	292.8	3.4	B1/500		
BM (30°-60°)	487.9	5.6	B1/1000		
BH (60°-80°)	230.9	2.7	B1/500		G1/500
BVH (80°-90°)	3.3	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	940.1	940.1	940.1	940.1	940.1	940.1	940.1	940.1	940.1	940.1	940.1
2.5°	914.8	911.6	911.6	918.0	921.1	924.3	930.6	930.6	930.6	937.0	940.1
5°	870.5	870.5	873.6	880.0	892.6	902.1	921.1	924.3	927.5	943.3	949.6
7.5°	842.0	842.0	845.2	857.8	873.6	895.8	921.1	927.5	937.0	959.1	974.9
10°	838.8	835.7	842.0	854.7	873.6	902.1	930.6	940.1	959.1	987.6	1009.8
12.5°	848.3	845.2	851.5	864.2	883.1	911.6	949.6	965.4	987.6	1025.6	1057.2
15°	854.7	851.5	857.8	873.6	895.8	930.6	974.9	993.9	1022.4	1076.2	1107.9
17.5°	873.6	870.5	873.6	886.3	908.5	946.5	1003.4	1022.4	1069.9	1130.0	1164.9
20°	959.1	955.9	937.0	930.6	933.8	968.6	1041.4	1073.1	1130.0	1206.0	1231.3
22.5°	1136.4	1123.7	1088.9	1031.9	993.9	1006.6	1088.9	1123.7	1199.7	1285.1	1304.1
25°	1373.8	1364.3	1313.6	1215.5	1107.9	1076.2	1142.7	1190.2	1282.0	1376.9	1370.6
27.5°	1642.8	1623.8	1576.4	1440.3	1294.6	1190.2	1209.2	1250.3	1351.6	1452.9	1421.3
30°	1877.1	1870.7	1816.9	1703.0	1532.0	1376.9	1310.5	1332.6	1424.4	1532.0	1494.1
32.5°	2092.3	2073.3	2029.0	1921.4	1763.1	1604.9	1471.9	1471.9	1547.9	1674.5	1617.5
35°	2329.7	2317.1	2263.3	2155.6	2003.7	1816.9	1696.7	1684.0	1747.3	1889.7	1766.3
37.5°	2573.5	2541.8	2516.5	2405.7	2253.8	2092.3	1946.7	1918.2	1949.9	2054.3	1902.4
40°	2877.3	2877.3	2820.4	2719.1	2576.6	2405.7	2203.1	2130.3	2120.8	2256.9	2139.8
42.5°	3231.9	3222.4	3174.9	3079.9	2943.8	2785.5	2529.1	2462.7	2456.3	2620.9	2481.7
45°	3640.2	3633.9	3576.9	3497.8	3402.8	3228.7	2975.5	2909.0	2871.0	3060.9	2896.3
47.5°	4013.7	3991.6	3972.6	3982.1	3928.3	3732.0	3494.6	3415.5	3412.3	3561.1	3349.0
50°	4270.1	4257.5	4323.9	4387.2	4488.5	4365.1	4083.4	4013.7	3959.9	4156.2	3820.6
52.5°	4437.9	4431.5	4564.5	4744.9	4953.8	4944.3	4694.3	4653.1	4608.8	4662.6	4241.6
55°	4504.4	4504.4	4662.6	4995.0	5362.2	5520.4	5403.3	5346.3	5191.2	5080.5	4703.8
57.5°	4425.2	4415.7	4621.5	5055.1	5615.4	5941.4	5992.1	5925.6	5681.9	5558.4	5216.6
60°	4089.7	4096.0	4339.8	4887.4	5596.4	6112.4	6438.4	6378.3	6134.5	5950.9	5647.1
62.5°	3462.9	3516.8	3773.1	4368.2	5191.2	5976.3	6694.8	6726.5	6463.7	6235.8	6030.1
65°	2602.0	2649.4	2893.2	3551.6	4453.7	5520.4	6742.3	6865.7	6653.7	6422.6	6090.2
67.5°	1582.7	1598.5	1896.1	2393.0	3279.3	4599.3	6409.9	6679.0	6527.0	6147.2	5495.1
70°	737.5	778.7	924.3	1307.3	2076.5	3387.0	5539.4	5919.3	5748.4	5276.7	4178.3
72.5°	288.1	300.7	392.5	604.6	1101.6	2130.3	4134.0	4387.2	4270.1	3747.8	2491.2
75°	142.4	151.9	189.9	288.1	503.3	880.0	2526.0	2690.6	2497.5	1883.4	1054.1
77.5°	104.5	104.5	126.6	177.3	275.4	326.0	1063.6	1193.4	1126.9	728.0	288.1
80°	69.6	76.0	88.6	120.3	174.1	158.3	402.0	478.0	398.8	224.7	101.3
82.5°	41.2	44.3	66.5	85.5	117.1	91.8	136.1	151.9	164.6	110.8	47.5
85°	22.2	22.2	44.3	63.3	63.3	41.2	47.5	53.8	63.3	66.5	25.3
87.5°	6.3	6.3	28.5	38.0	25.3	22.2	25.3	25.3	28.5	34.8	12.7
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°	940.1	940.1	940.1	940.1	940.1	940.1	940.1	940.1	940.1	940.1	940.1
2.5°	943.3	943.3	946.5	946.5	949.6	949.6	949.6	949.6	952.8	955.9	955.9
5°	952.8	955.9	955.9	955.9	955.9	949.6	946.5	943.3	943.3	946.5	946.5
7.5°	978.1	981.3	978.1	971.8	962.3	949.6	937.0	937.0	933.8	937.0	933.8
10°	1016.1	1016.1	1012.9	997.1	981.3	955.9	930.6	911.6	899.0	895.8	889.5
12.5°	1063.6	1063.6	1054.1	1025.6	997.1	949.6	883.1	819.8	769.2	747.0	740.7
15°	1111.1	1111.1	1098.4	1057.2	1000.3	886.3	747.0	614.1	538.1	506.5	487.5
17.5°	1168.0	1161.7	1139.5	1082.6	965.4	759.7	535.0	398.8	338.7	310.2	310.2
20°	1228.2	1221.8	1180.7	1085.7	876.8	544.4	348.2	275.4	259.6	253.2	253.2
22.5°	1294.6	1278.8	1215.5	1060.4	690.1	370.4	262.7	243.7	237.4	234.2	234.2
25°	1348.5	1323.1	1240.8	990.8	493.8	259.6	231.1	224.7	212.1	208.9	202.6
27.5°	1389.6	1351.6	1250.3	842.0	326.0	215.2	205.8	193.1	180.4	167.8	167.8
30°	1443.4	1395.9	1256.7	655.2	221.6	186.8	177.3	161.4	145.6	132.9	132.9
32.5°	1551.0	1481.4	1259.8	459.0	183.6	164.6	145.6	126.6	110.8	104.5	101.3
35°	1668.2	1573.2	1225.0	297.5	161.4	139.3	117.1	101.3	85.5	82.3	82.3
37.5°	1797.9	1709.3	1149.0	202.6	142.4	117.1	95.0	79.1	69.6	66.5	66.5
40°	2016.4	1911.9	1022.4	161.4	123.5	98.1	79.1	66.5	60.1	57.0	57.0
42.5°	2329.7	2149.3	864.2	139.3	107.6	82.3	63.3	53.8	50.6	47.5	47.5
45°	2690.6	2415.2	680.6	126.6	95.0	69.6	53.8	47.5	44.3	41.2	41.2
47.5°	3105.2	2690.6	538.1	110.8	82.3	60.1	47.5	41.2	38.0	34.8	34.8
50°	3497.8	2905.8	405.2	98.1	72.8	50.6	41.2	38.0	34.8	31.7	31.7
52.5°	3820.6	3051.4	307.0	85.5	63.3	44.3	38.0	34.8	28.5	28.5	28.5
55°	4210.0	3165.4	234.2	76.0	57.0	41.2	34.8	28.5	25.3	22.2	22.2
57.5°	4548.7	3206.5	170.9	66.5	50.6	38.0	31.7	25.3	19.0	15.8	15.8
60°	4776.6	3171.7	123.5	57.0	44.3	31.7	25.3	19.0	12.7	9.5	9.5
62.5°	4938.0	3095.8	95.0	50.6	38.0	28.5	22.2	15.8	9.5	6.3	6.3
65°	4776.6	2861.5	76.0	44.3	31.7	25.3	15.8	12.7	6.3	3.2	3.2
67.5°	4130.8	2399.4	60.1	38.0	28.5	22.2	15.8	9.5	3.2	0.0	0.0
70°	2969.1	1712.5	50.6	34.8	25.3	19.0	12.7	6.3	3.2	0.0	0.0
72.5°	1655.5	883.1	47.5	31.7	25.3	19.0	12.7	6.3	3.2	0.0	0.0
75°	671.1	303.9	44.3	31.7	25.3	15.8	12.7	6.3	3.2	0.0	0.0
77.5°	196.3	104.5	38.0	28.5	25.3	19.0	12.7	6.3	3.2	0.0	0.0
80°	69.6	47.5	28.5	25.3	19.0	15.8	12.7	9.5	3.2	0.0	0.0
82.5°	31.7	19.0	12.7	9.5	9.5	9.5	9.5	6.3	3.2	0.0	0.0
85°	12.7	9.5	6.3	3.2	3.2	3.2	3.2	3.2	3.2	0.0	0.0
87.5°	9.5	6.3	3.2	3.2	3.2	3.2	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)