

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: P573296

Luminaire Tested: **ARCH-S-PA2-60-727-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573296
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-PA2-60-727-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 625mA 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: 5888 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

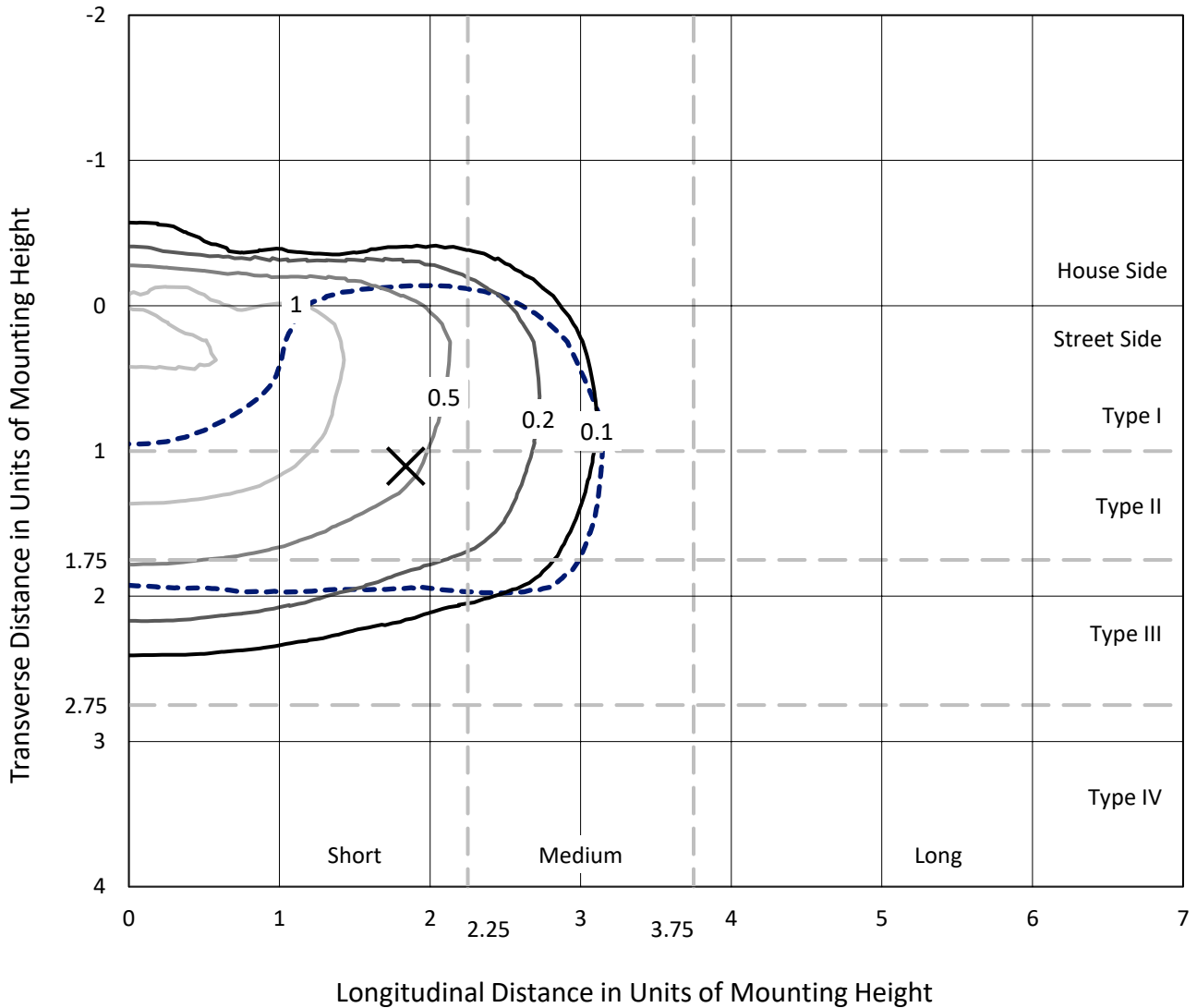
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

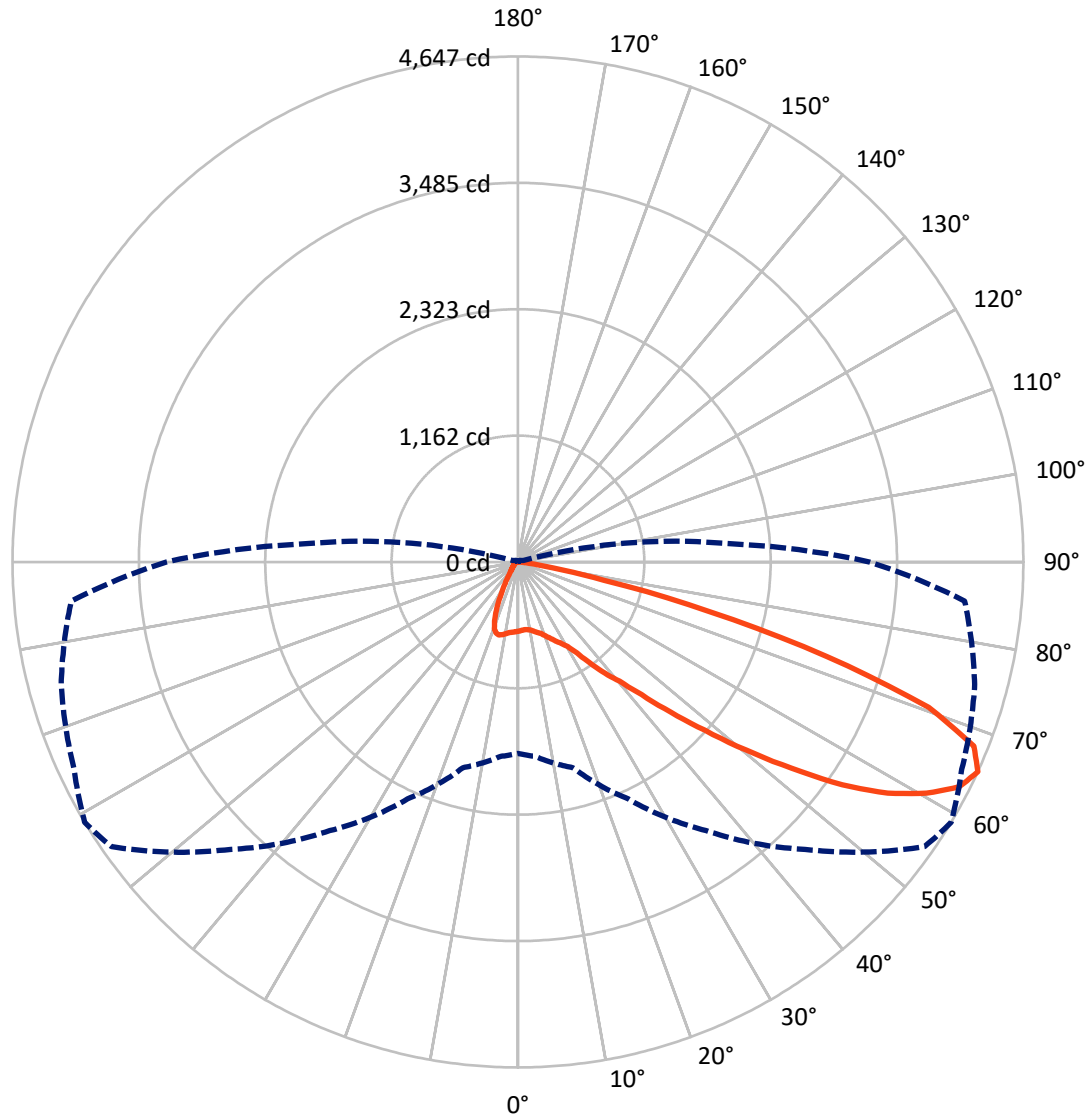
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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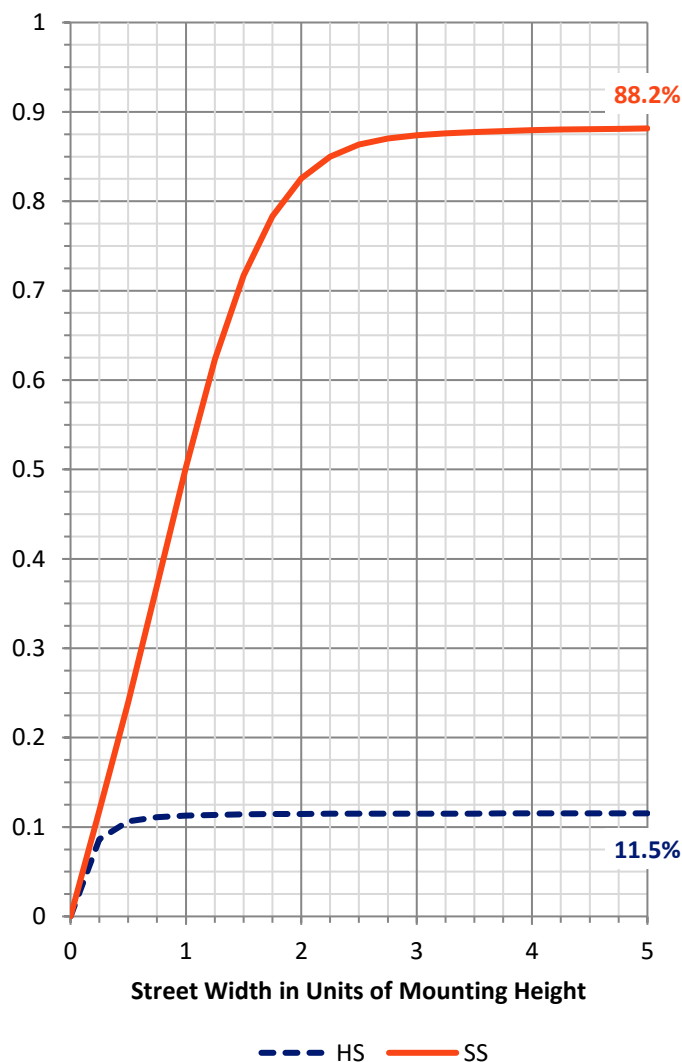
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	686.9	0.0	686.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	5201.1	0.0	5201.1
	% Fixture	88.3	0.0	88.3
Total	Lumens	5888.0	0.0	5888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	1.0
10°-20°	170.8	2.9
20°-30°	290.1	4.9
30°-40°	513.9	8.7
40°-50°	969.4	16.5
50°-60°	1640.2	27.9
60°-70°	1705.3	29.0
70°-80°	511.4	8.7
80°-90°	26.8	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°	5888.0	100.0
0°-180°	5888.0	100.0

Coefficient of Utilization



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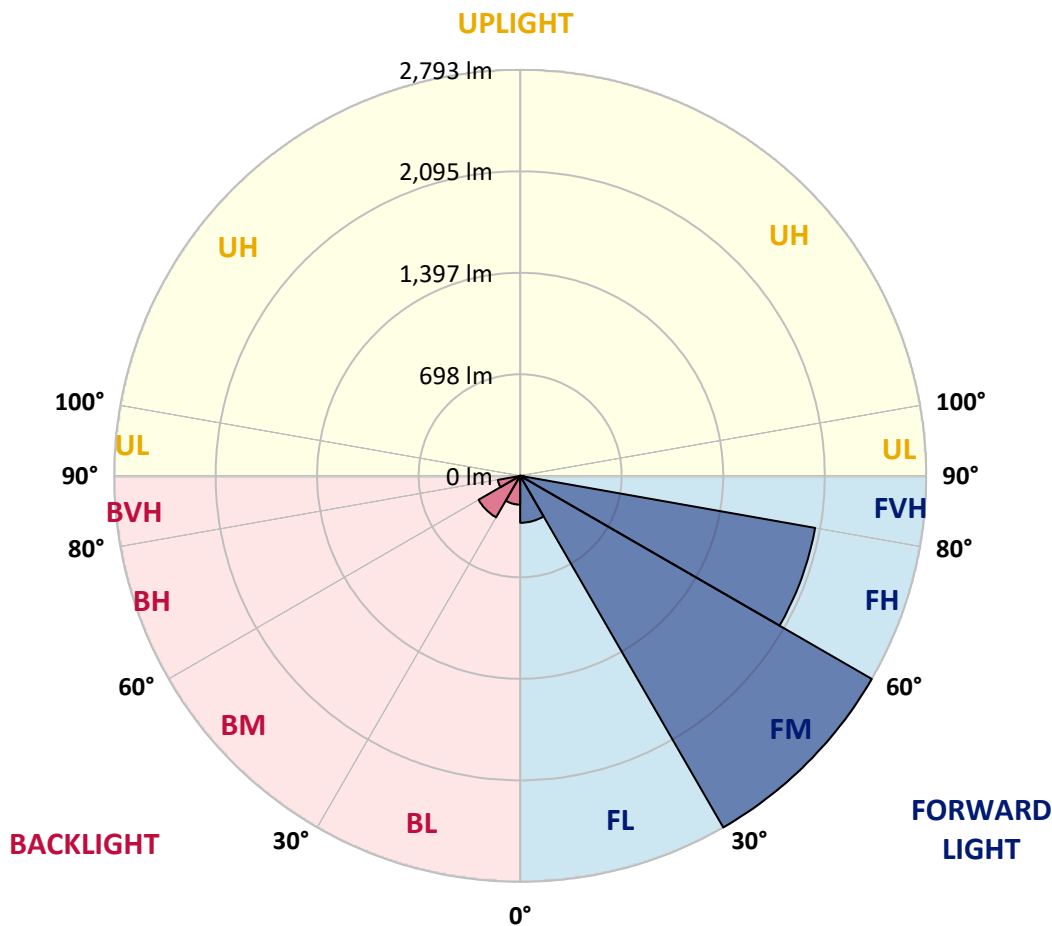
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	322.9	5.5			
FM (30°-60°)	2793.3	47.4			
FH (60°-80°)	2060.4	35.0			G2/5000
FVH (80°-90°)	24.5	0.4			G1/100
BL (0°-30°)	198.1	3.4	B1/500		
BM (30°-60°)	330.2	5.6	B1/1000		
BH (60°-80°)	156.3	2.7	B1/500		G1/500
BVH (80°-90°)	2.3	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°	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3
2.5°	619.1	617.0	617.0	621.3	623.4	625.5	629.8	629.8	629.8	634.1	636.3
5°	589.1	589.1	591.3	595.6	604.1	610.5	623.4	625.5	627.7	638.4	642.7
7.5°	569.8	569.8	572.0	580.6	591.3	606.3	623.4	627.7	634.1	649.1	659.8
10°	567.7	565.6	569.8	578.4	591.3	610.5	629.8	636.3	649.1	668.4	683.4
12.5°	574.1	572.0	576.3	584.8	597.7	617.0	642.7	653.4	668.4	694.1	715.5
15°	578.4	576.3	580.6	591.3	606.3	629.8	659.8	672.7	692.0	728.4	749.8
17.5°	591.3	589.1	591.3	599.8	614.8	640.5	679.1	692.0	724.1	764.8	788.4
20°	649.1	647.0	634.1	629.8	632.0	655.5	704.8	726.2	764.8	816.2	833.3
22.5°	769.1	760.5	736.9	698.4	672.7	681.2	736.9	760.5	811.9	869.8	882.6
25°	929.7	923.3	889.0	822.6	749.8	728.4	773.4	805.5	867.6	931.9	927.6
27.5°	1111.8	1099.0	1066.9	974.7	876.2	805.5	818.4	846.2	914.8	983.3	961.9
30°	1270.4	1266.1	1229.7	1152.5	1036.9	931.9	886.9	901.9	964.0	1036.9	1011.2
32.5°	1416.0	1403.2	1373.2	1300.4	1193.2	1086.1	996.2	996.2	1047.6	1133.3	1094.7
35°	1576.7	1568.1	1531.7	1458.9	1356.1	1229.7	1148.3	1139.7	1182.5	1278.9	1195.4
37.5°	1741.7	1720.3	1703.1	1628.1	1525.3	1416.0	1317.5	1298.2	1319.6	1390.3	1287.5
40°	1947.3	1947.3	1908.8	1840.2	1743.8	1628.1	1491.0	1441.8	1435.3	1527.4	1448.2
42.5°	2187.3	2180.8	2148.7	2084.4	1992.3	1885.2	1711.7	1666.7	1662.4	1773.8	1679.5
45°	2463.6	2459.3	2420.8	2367.2	2303.0	2185.1	2013.7	1968.8	1943.0	2071.6	1960.2
47.5°	2716.4	2701.4	2688.6	2695.0	2658.6	2525.7	2365.1	2311.5	2309.4	2410.1	2266.5
50°	2889.9	2881.4	2926.4	2969.2	3037.8	2954.2	2763.5	2716.4	2680.0	2812.8	2585.7
52.5°	3003.5	2999.2	3089.2	3211.3	3352.7	3346.2	3177.0	3149.2	3119.2	3155.6	2870.7
55°	3048.5	3048.5	3155.6	3380.5	3629.0	3736.1	3656.9	3618.3	3513.3	3438.4	3183.4
57.5°	2994.9	2988.5	3127.7	3421.2	3800.4	4021.1	4055.3	4010.3	3845.4	3761.8	3530.5
60°	2767.8	2772.1	2937.1	3307.7	3787.5	4136.7	4357.4	4316.7	4151.7	4027.5	3821.8
62.5°	2343.7	2380.1	2553.6	2956.3	3513.3	4044.6	4530.9	4552.3	4374.5	4220.3	4081.0
65°	1761.0	1793.1	1958.0	2403.6	3014.2	3736.1	4563.1	4646.6	4503.1	4346.7	4121.7
67.5°	1071.1	1081.9	1283.2	1619.6	2219.4	3112.7	4338.1	4520.2	4417.4	4160.3	3719.0
70°	499.2	527.0	625.5	884.8	1405.3	2292.2	3749.0	4006.1	3890.4	3571.2	2827.8
72.5°	194.9	203.5	265.6	409.2	745.5	1441.8	2797.8	2969.2	2889.9	2536.5	1686.0
75°	96.4	102.8	128.5	194.9	340.6	595.6	1709.5	1820.9	1690.3	1274.7	713.4
77.5°	70.7	70.7	85.7	120.0	186.4	220.7	719.8	807.6	762.7	492.7	194.9
80°	47.1	51.4	60.0	81.4	117.8	107.1	272.1	323.5	269.9	152.1	68.6
82.5°	27.8	30.0	45.0	57.8	79.3	62.1	92.1	102.8	111.4	75.0	32.1
85°	15.0	15.0	30.0	42.8	42.8	27.8	32.1	36.4	42.8	45.0	17.1
87.5°	4.3	4.3	19.3	25.7	17.1	15.0	17.1	17.1	19.3	23.6	8.6
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°	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3	636.3
2.5°	638.4	638.4	640.5	640.5	642.7	642.7	642.7	642.7	644.8	647.0	647.0
5°	644.8	647.0	647.0	647.0	647.0	642.7	640.5	638.4	638.4	640.5	640.5
7.5°	662.0	664.1	662.0	657.7	651.3	642.7	634.1	634.1	632.0	634.1	632.0
10°	687.7	687.7	685.5	674.8	664.1	647.0	629.8	617.0	608.4	606.3	602.0
12.5°	719.8	719.8	713.4	694.1	674.8	642.7	597.7	554.9	520.6	505.6	501.3
15°	751.9	751.9	743.4	715.5	677.0	599.8	505.6	415.6	364.2	342.8	329.9
17.5°	790.5	786.2	771.2	732.7	653.4	514.1	362.0	269.9	229.2	209.9	209.9
20°	831.2	826.9	799.1	734.8	593.4	368.5	235.7	186.4	175.7	171.4	171.4
22.5°	876.2	865.5	822.6	717.7	467.0	250.6	177.8	165.0	160.7	158.5	158.5
25°	912.6	895.5	839.8	670.5	334.2	175.7	156.4	152.1	143.5	141.4	137.1
27.5°	940.5	914.8	846.2	569.8	220.7	145.7	139.2	130.7	122.1	113.5	113.5
30°	976.9	944.7	850.5	443.5	150.0	126.4	120.0	109.3	98.5	90.0	90.0
32.5°	1049.7	1002.6	852.6	310.6	124.3	111.4	98.5	85.7	75.0	70.7	68.6
35°	1129.0	1064.7	829.1	201.4	109.3	94.3	79.3	68.6	57.8	55.7	55.7
37.5°	1216.8	1156.8	777.6	137.1	96.4	79.3	64.3	53.6	47.1	45.0	45.0
40°	1364.6	1293.9	692.0	109.3	83.5	66.4	53.6	45.0	40.7	38.6	38.6
42.5°	1576.7	1454.6	584.8	94.3	72.8	55.7	42.8	36.4	34.3	32.1	32.1
45°	1820.9	1634.6	460.6	85.7	64.3	47.1	36.4	32.1	30.0	27.8	27.8
47.5°	2101.6	1820.9	364.2	75.0	55.7	40.7	32.1	27.8	25.7	23.6	23.6
50°	2367.2	1966.6	274.2	66.4	49.3	34.3	27.8	25.7	23.6	21.4	21.4
52.5°	2585.7	2065.2	207.8	57.8	42.8	30.0	25.7	23.6	19.3	19.3	19.3
55°	2849.2	2142.3	158.5	51.4	38.6	27.8	23.6	19.3	17.1	15.0	15.0
57.5°	3078.5	2170.1	115.7	45.0	34.3	25.7	21.4	17.1	12.9	10.7	10.7
60°	3232.7	2146.6	83.5	38.6	30.0	21.4	17.1	12.9	8.6	6.4	6.4
62.5°	3342.0	2095.1	64.3	34.3	25.7	19.3	15.0	10.7	6.4	4.3	4.3
65°	3232.7	1936.6	51.4	30.0	21.4	17.1	10.7	8.6	4.3	2.1	2.1
67.5°	2795.7	1623.8	40.7	25.7	19.3	15.0	10.7	6.4	2.1	0.0	0.0
70°	2009.5	1159.0	34.3	23.6	17.1	12.9	8.6	4.3	2.1	0.0	0.0
72.5°	1120.4	597.7	32.1	21.4	17.1	12.9	8.6	4.3	2.1	0.0	0.0
75°	454.2	205.7	30.0	21.4	17.1	10.7	8.6	4.3	2.1	0.0	0.0
77.5°	132.8	70.7	25.7	19.3	17.1	12.9	8.6	4.3	2.1	0.0	0.0
80°	47.1	32.1	19.3	17.1	12.9	10.7	8.6	6.4	2.1	0.0	0.0
82.5°	21.4	12.9	8.6	6.4	6.4	6.4	6.4	4.3	2.1	0.0	0.0
85°	8.6	6.4	4.3	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0
87.5°	6.4	4.3	2.1	2.1	2.1	2.1	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)