

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: P573379

Luminaire Tested: **ARCH-S-PA2-70-727-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-70-727-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6563 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

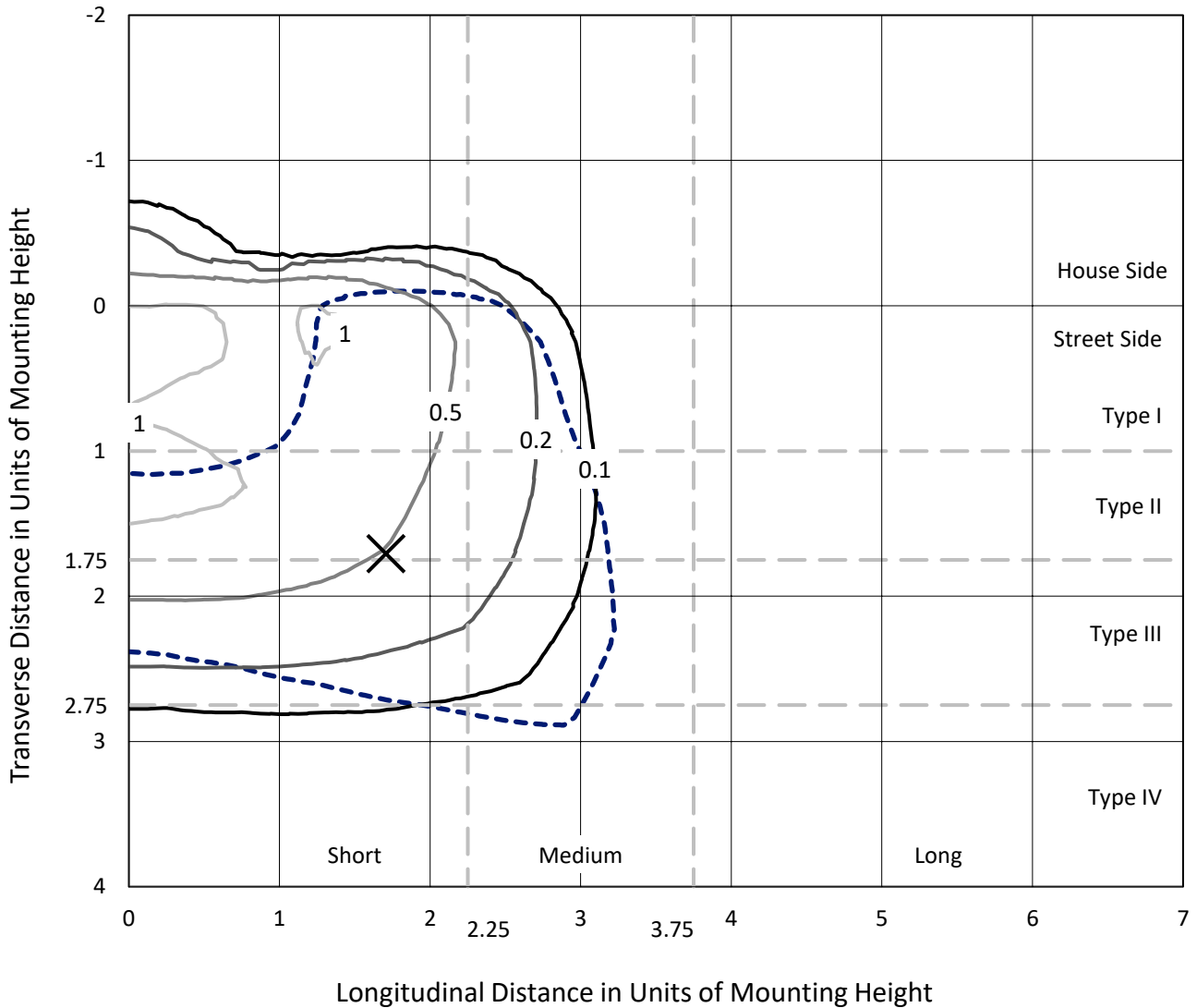
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

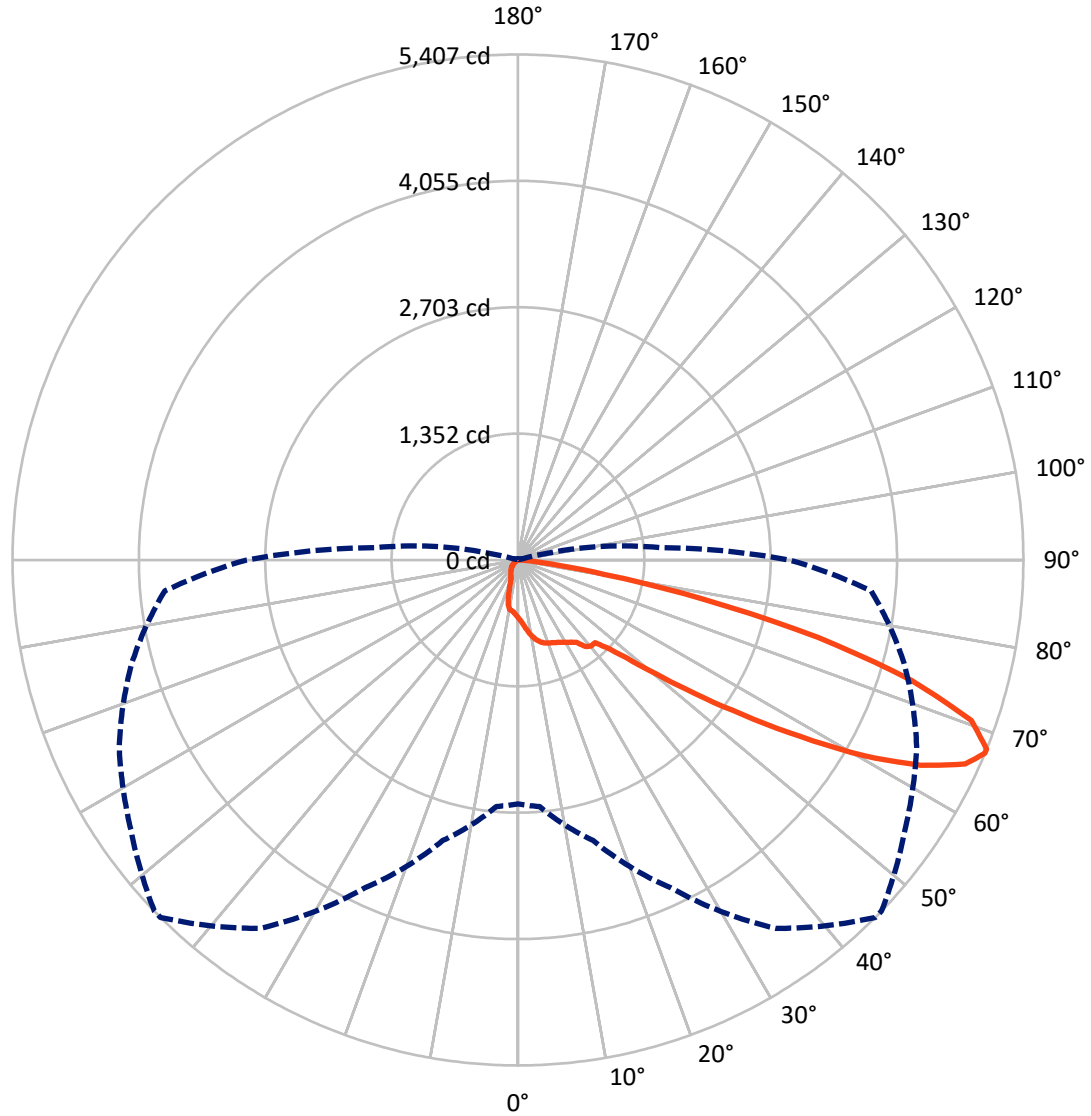
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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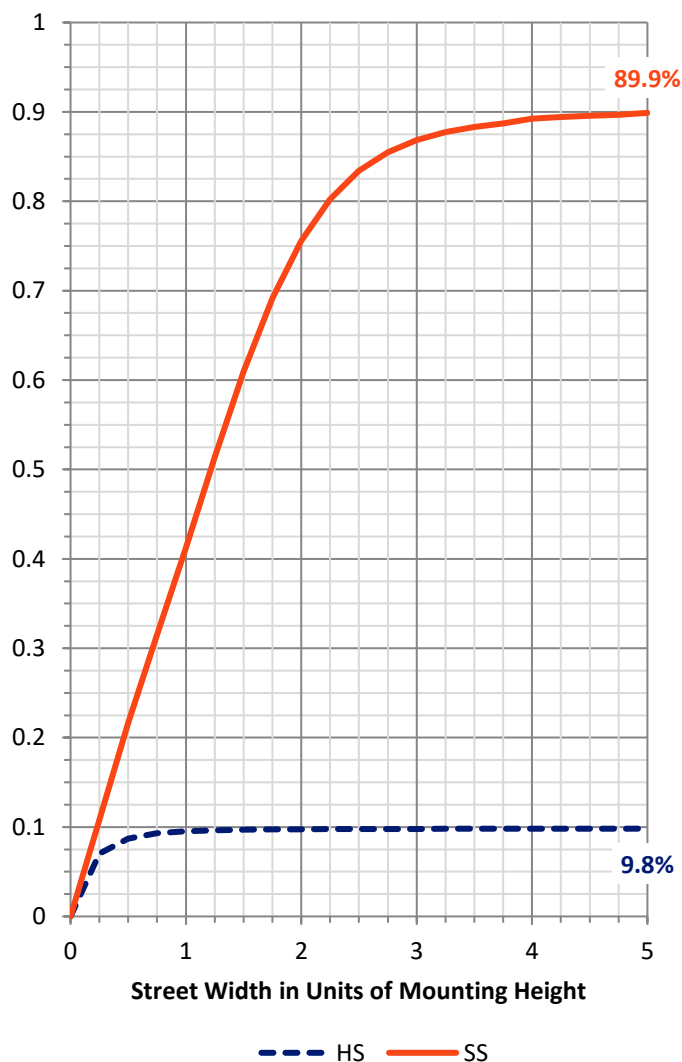
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	650.3	0.0	650.3
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	5912.7	0.0	5912.7
	% Fixture	90.1	0.0	90.1
Total	Lumens	6563.0	0.0	6563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	0.9
10°-20°	188.3	2.9
20°-30°	301.2	4.6
30°-40°	433.6	6.6
40°-50°	760.6	11.6
50°-60°	1602.7	24.4
60°-70°	2216.3	33.8
70°-80°	927.8	14.1
80°-90°	70.2	1.1
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°	6563.0	100.0
0°-180°	6563.0	100.0

Coefficient of Utilization



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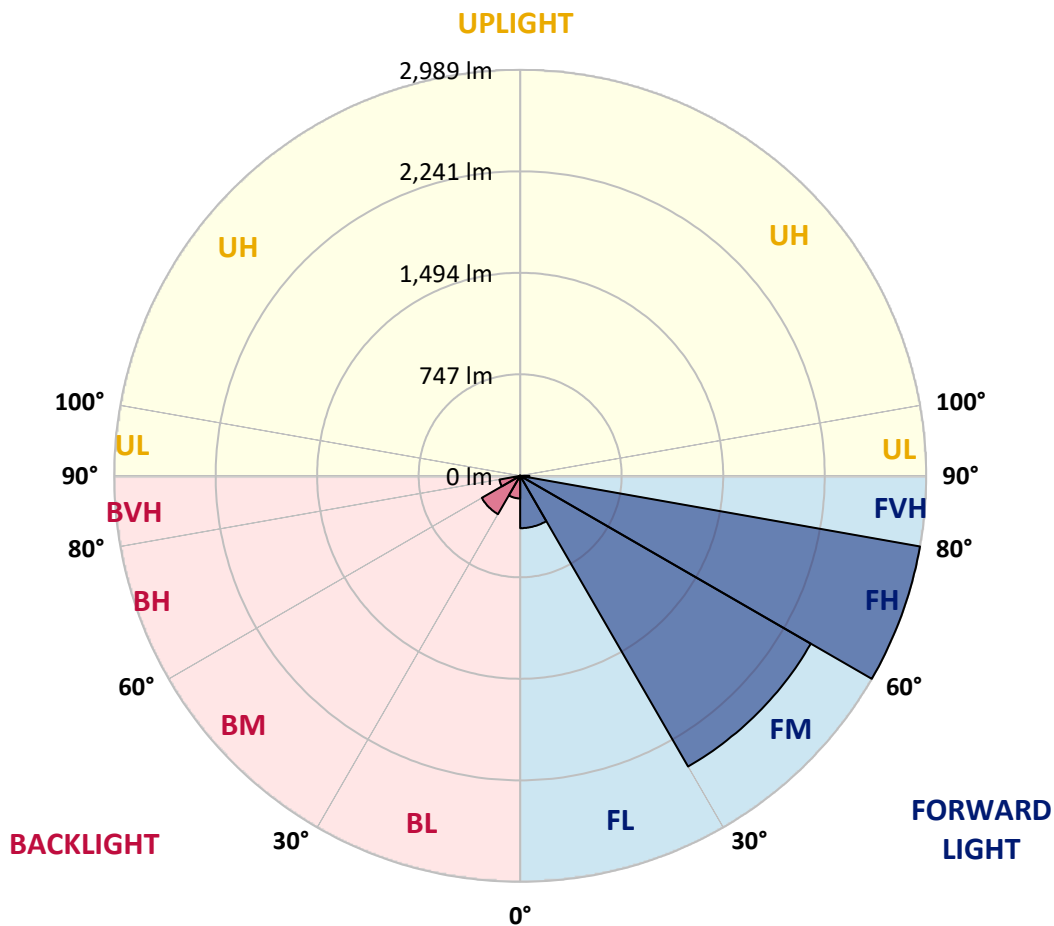
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	385.2	5.9			
FM (30°-60°)	2471.1	37.7			
FH (60°-80°)	2988.6	45.5			G2/5000
FVH (80°-90°)	67.8	1.0			G1/100
BL (0°-30°)	166.7	2.5	B1/500		
BM (30°-60°)	325.8	5.0	B1/1000		
BH (60°-80°)	155.4	2.4	B1/500		G1/500
BVH (80°-90°)	2.4	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°	46°	55°	65°	75°	85°
0°	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7
2.5°	691.0	678.9	676.4	674.0	666.7	657.1	659.5	652.2	640.1	632.8	625.5
5°	775.9	763.7	758.9	744.3	729.8	708.0	708.0	688.6	666.7	647.4	628.0
7.5°	863.1	853.4	843.7	821.9	800.1	771.0	768.6	739.5	705.5	676.4	644.9
10°	935.9	928.6	916.5	889.8	860.7	829.2	821.9	795.3	751.6	712.8	671.6
12.5°	994.1	986.8	969.8	943.1	906.8	875.3	872.8	838.9	795.3	754.0	703.1
15°	1037.7	1025.6	1006.2	977.1	940.7	911.6	906.8	877.7	836.5	790.4	729.8
17.5°	1045.0	1037.7	1020.7	989.2	957.7	933.4	931.0	909.2	872.8	824.3	761.3
20°	1025.6	1023.2	1008.6	984.4	960.1	948.0	945.6	931.0	901.9	858.3	795.3
22.5°	996.5	994.1	984.4	972.2	962.5	960.1	960.1	955.3	938.3	897.1	838.9
25°	977.1	974.7	969.8	962.5	962.5	977.1	979.5	984.4	969.8	938.3	875.3
27.5°	979.5	974.7	969.8	962.5	972.2	998.9	1001.3	1013.5	1001.3	972.2	916.5
30°	1013.5	1006.2	991.6	974.7	986.8	1023.2	1025.6	1040.1	1030.4	1015.9	962.5
32.5°	1066.8	1062.0	1032.9	1003.8	1011.0	1047.4	1052.3	1078.9	1091.0	1069.2	1003.8
35°	1144.4	1127.4	1091.0	1062.0	1057.1	1083.8	1091.0	1134.7	1166.2	1112.9	1028.0
37.5°	1207.4	1192.9	1134.7	1088.6	1115.3	1175.9	1178.3	1231.7	1205.0	1117.7	1066.8
40°	1420.8	1418.4	1316.5	1171.1	1142.0	1209.8	1219.5	1229.2	1217.1	1173.5	1151.7
42.5°	1765.1	1736.0	1622.0	1399.0	1200.1	1207.4	1212.3	1263.2	1326.2	1306.8	1314.1
45°	2138.4	2114.2	1985.7	1704.5	1399.0	1338.3	1343.2	1425.6	1546.9	1571.1	1609.9
47.5°	2482.7	2443.9	2371.2	2087.5	1738.4	1561.4	1571.1	1670.5	1871.7	1925.1	1985.7
50°	2773.7	2747.0	2679.1	2492.4	2155.4	1913.0	1922.7	2005.1	2266.9	2351.8	2429.4
52.5°	3195.5	3159.2	3028.3	2941.0	2686.4	2371.2	2349.4	2436.7	2737.3	2793.1	2897.3
55°	3583.5	3508.3	3430.7	3394.4	3287.7	2919.2	2911.9	2928.8	3178.6	3207.7	3394.4
57.5°	3748.3	3733.8	3799.3	3920.5	3944.7	3564.1	3532.6	3467.1	3663.5	3661.1	3879.3
60°	3852.6	3852.6	4027.2	4327.8	4521.8	4252.6	4209.0	4005.3	4075.7	4078.1	4279.3
62.5°	3787.1	3804.1	4075.7	4529.0	4919.4	4837.0	4807.9	4466.0	4461.2	4405.4	4475.7
65°	3382.2	3411.3	3847.8	4417.5	5064.9	5258.8	5246.7	4858.8	4718.2	4514.5	4356.9
67°	2759.1	2812.5	3341.0	4015.0	4900.0	5404.3	5406.7	5028.5	4720.6	4332.7	3937.5
67.5°	2608.8	2647.6	3105.8	3869.6	4810.3	5406.7	5406.7	5050.3	4706.0	4276.9	3792.0
70°	1663.2	1672.9	2172.4	2994.3	4109.6	5144.9	5164.3	4885.5	4286.6	3462.2	2662.1
72.5°	821.9	800.1	1146.8	1927.5	3084.0	4403.0	4453.9	4172.6	3391.9	2262.1	1406.2
75°	322.5	344.3	499.5	1025.6	1932.4	3319.2	3358.0	3035.5	2182.1	1166.2	555.2
77.5°	143.0	143.0	213.4	460.7	1015.9	2036.6	2056.0	1852.4	1151.7	480.1	169.7
80°	77.6	82.4	111.5	201.2	511.6	935.9	1020.7	918.9	521.3	210.9	58.2
82.5°	38.8	41.2	67.9	114.0	257.0	354.0	373.4	390.4	240.0	130.9	24.2
85°	14.5	17.0	36.4	65.5	116.4	118.8	118.8	152.7	130.9	99.4	12.1
87.5°	2.4	4.8	17.0	26.7	46.1	41.2	36.4	48.5	72.7	63.0	7.3
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°	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7	620.7
2.5°	620.7	615.8	606.1	598.9	594.0	589.2	584.3	584.3	581.9	581.9	584.3
5°	620.7	611.0	591.6	579.5	569.8	562.5	557.6	557.6	555.2	557.6	560.1
7.5°	632.8	618.3	591.6	569.8	557.6	545.5	540.7	538.2	538.2	540.7	538.2
10°	652.2	632.8	598.9	569.8	552.8	535.8	509.2	484.9	463.1	453.4	451.0
12.5°	676.4	652.2	611.0	577.0	550.4	492.2	419.4	373.4	344.3	329.7	324.9
15°	703.1	674.0	625.5	586.7	514.0	404.9	310.3	259.4	242.5	244.9	247.3
17.5°	732.2	700.7	647.4	581.9	441.3	300.6	227.9	215.8	223.1	230.3	230.3
20°	761.3	727.4	669.2	545.5	346.7	223.1	203.7	206.1	213.4	220.6	220.6
22.5°	800.1	763.7	691.0	482.5	257.0	194.0	194.0	198.8	203.7	210.9	210.9
25°	841.3	804.9	705.5	404.9	191.5	181.8	184.3	189.1	194.0	201.2	201.2
27.5°	885.0	848.6	703.1	312.8	167.3	167.3	169.7	177.0	181.8	189.1	189.1
30°	933.4	901.9	676.4	227.9	155.2	152.7	152.7	160.0	167.3	172.1	174.6
32.5°	974.7	948.0	630.4	172.1	145.5	140.6	138.2	140.6	147.9	152.7	155.2
35°	1008.6	998.9	562.5	147.9	135.8	128.5	123.7	121.2	123.7	123.7	126.1
37.5°	1071.6	1074.1	482.5	138.2	128.5	118.8	109.1	101.8	97.0	94.6	92.1
40°	1190.5	1188.0	397.6	130.9	121.2	109.1	94.6	84.9	72.7	67.9	67.9
42.5°	1357.7	1321.4	303.1	123.7	114.0	99.4	80.0	65.5	53.3	50.9	50.9
45°	1658.4	1508.1	227.9	118.8	106.7	87.3	65.5	48.5	41.2	38.8	38.8
47.5°	1990.6	1723.9	181.8	111.5	99.4	77.6	50.9	38.8	31.5	31.5	31.5
50°	2356.7	1929.9	152.7	104.3	87.3	65.5	41.2	31.5	29.1	26.7	29.1
52.5°	2756.7	2092.4	133.3	94.6	75.2	53.3	33.9	29.1	24.2	24.2	24.2
55°	3115.5	2201.5	111.5	82.4	63.0	43.6	31.5	24.2	21.8	19.4	17.0
57.5°	3440.4	2259.7	89.7	70.3	48.5	36.4	26.7	19.4	17.0	12.1	12.1
60°	3607.7	2206.3	70.3	55.8	38.8	29.1	21.8	17.0	12.1	7.3	7.3
62.5°	3634.4	2068.1	55.8	43.6	33.9	24.2	17.0	12.1	7.3	4.8	4.8
65°	3401.6	1825.7	46.1	36.4	26.7	19.4	14.5	9.7	4.8	2.4	2.4
67°	2984.6	1571.1	41.2	31.5	24.2	17.0	12.1	7.3	4.8	2.4	0.0
67.5°	2902.2	1525.0	38.8	31.5	24.2	17.0	12.1	7.3	4.8	2.4	0.0
70°	1905.7	1054.7	36.4	29.1	21.8	14.5	9.7	7.3	2.4	0.0	0.0
72.5°	1040.1	531.0	33.9	26.7	19.4	14.5	9.7	4.8	2.4	0.0	0.0
75°	380.7	201.2	29.1	24.2	17.0	14.5	9.7	4.8	2.4	0.0	0.0
77.5°	128.5	70.3	26.7	24.2	19.4	14.5	9.7	4.8	2.4	0.0	0.0
80°	43.6	31.5	21.8	19.4	14.5	12.1	9.7	4.8	2.4	0.0	0.0
82.5°	17.0	9.7	7.3	7.3	7.3	9.7	9.7	7.3	2.4	0.0	0.0
85°	7.3	4.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0.0	0.0
87.5°	7.3	4.8	2.4	2.4	2.4	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)