

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: P573593

Luminaire Tested: **ARCH-S-PA2-90-827-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573593
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-PA2-90-827-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 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: 7023 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

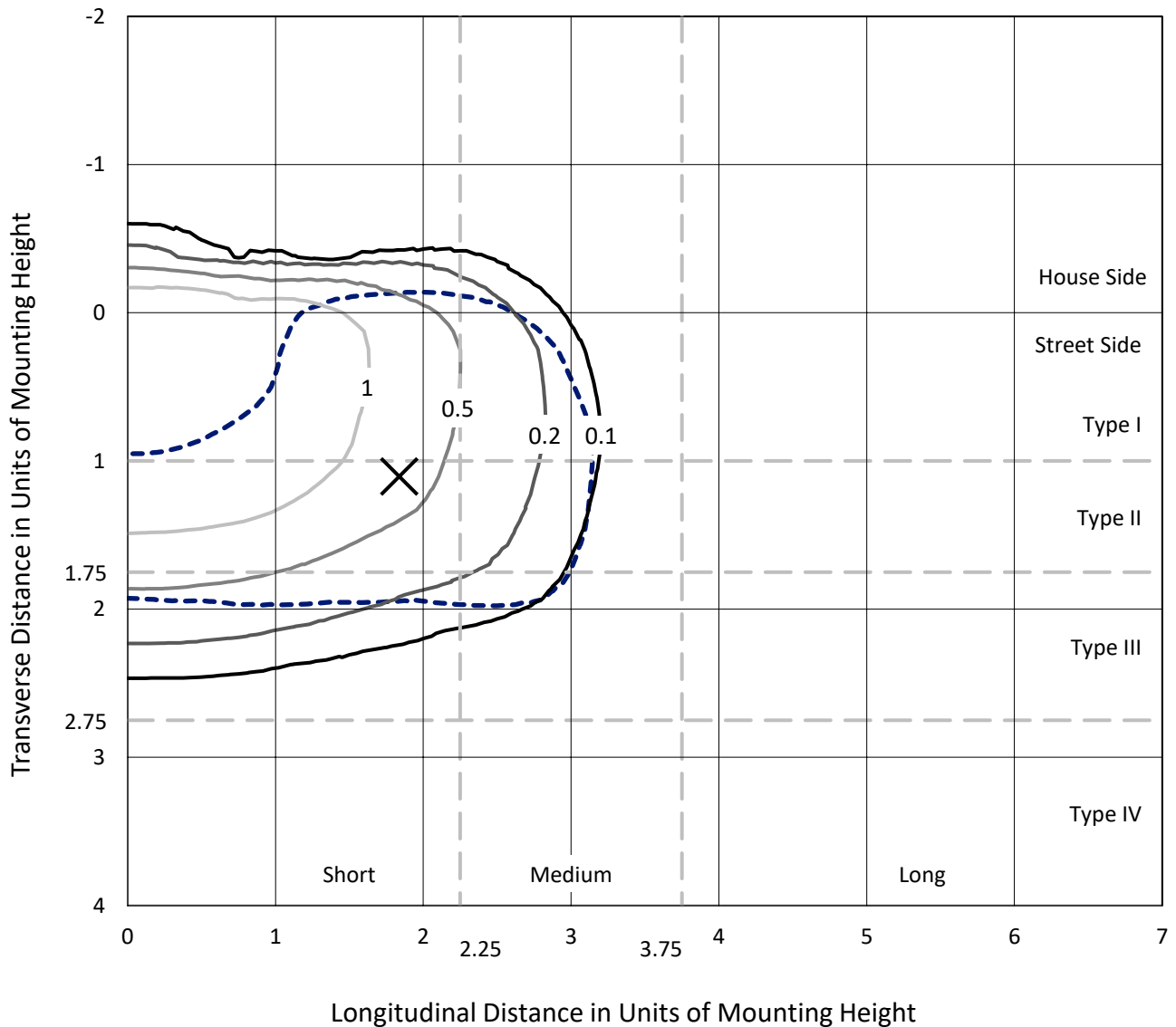
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

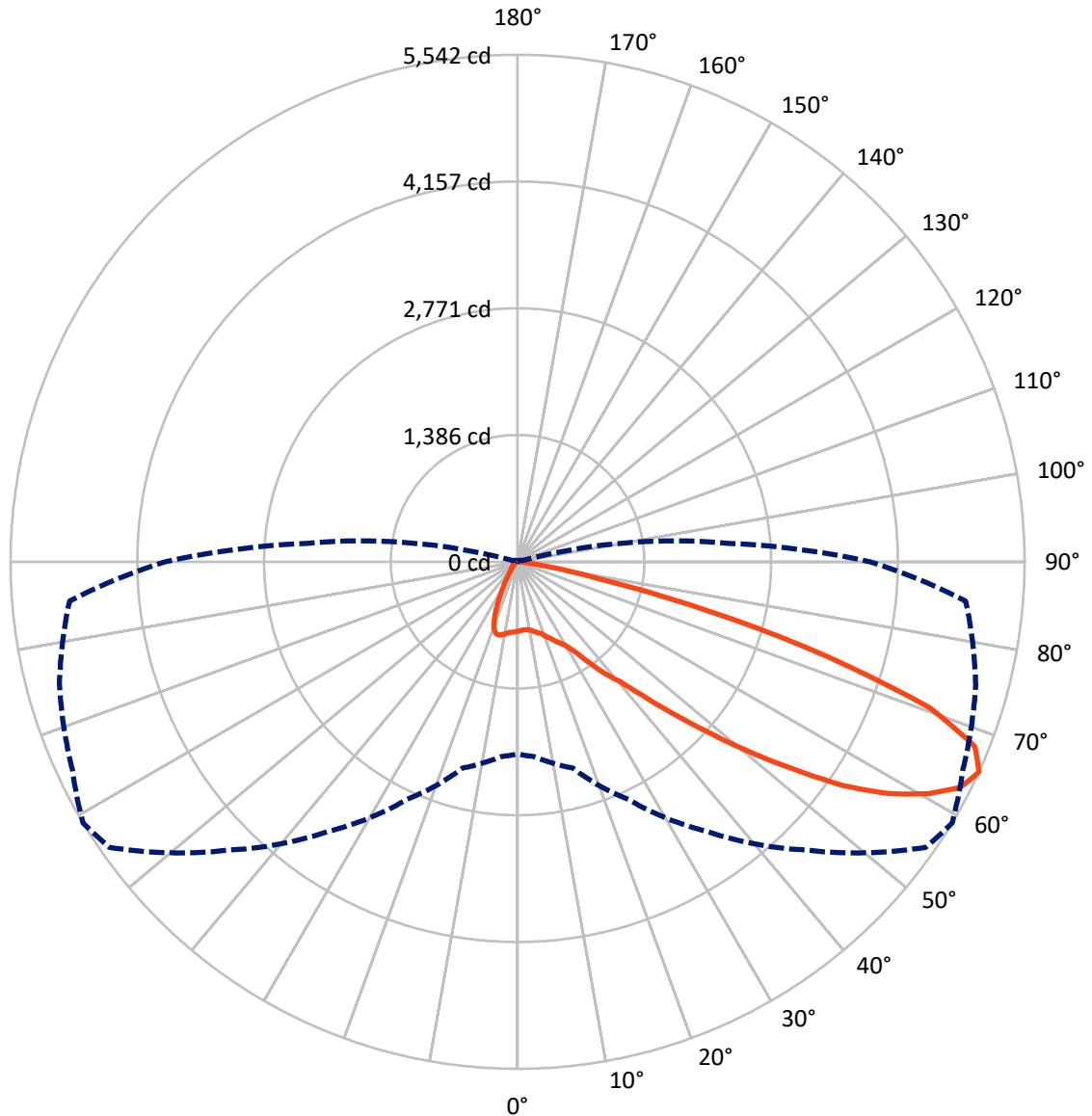
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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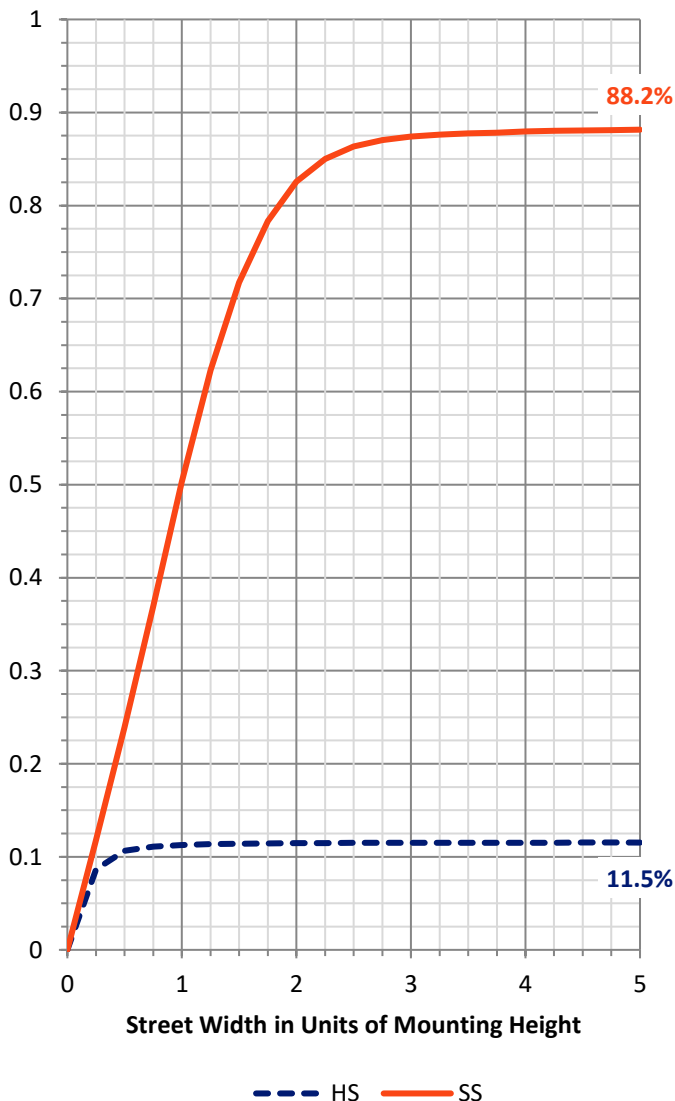
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	819.3	0.0	819.3
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	6203.7	0.0	6203.7
	% Fixture	88.3	0.0	88.3
Total	Lumens	7023.0	0.0	7023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	1.0
10°-20°	203.7	2.9
20°-30°	346.0	4.9
30°-40°	613.0	8.7
40°-50°	1156.3	16.5
50°-60°	1956.4	27.9
60°-70°	2034.0	29.0
70°-80°	609.9	8.7
80°-90°	32.0	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°	7023.0	100.0
0°-180°	7023.0	100.0

Coefficient of Utilization



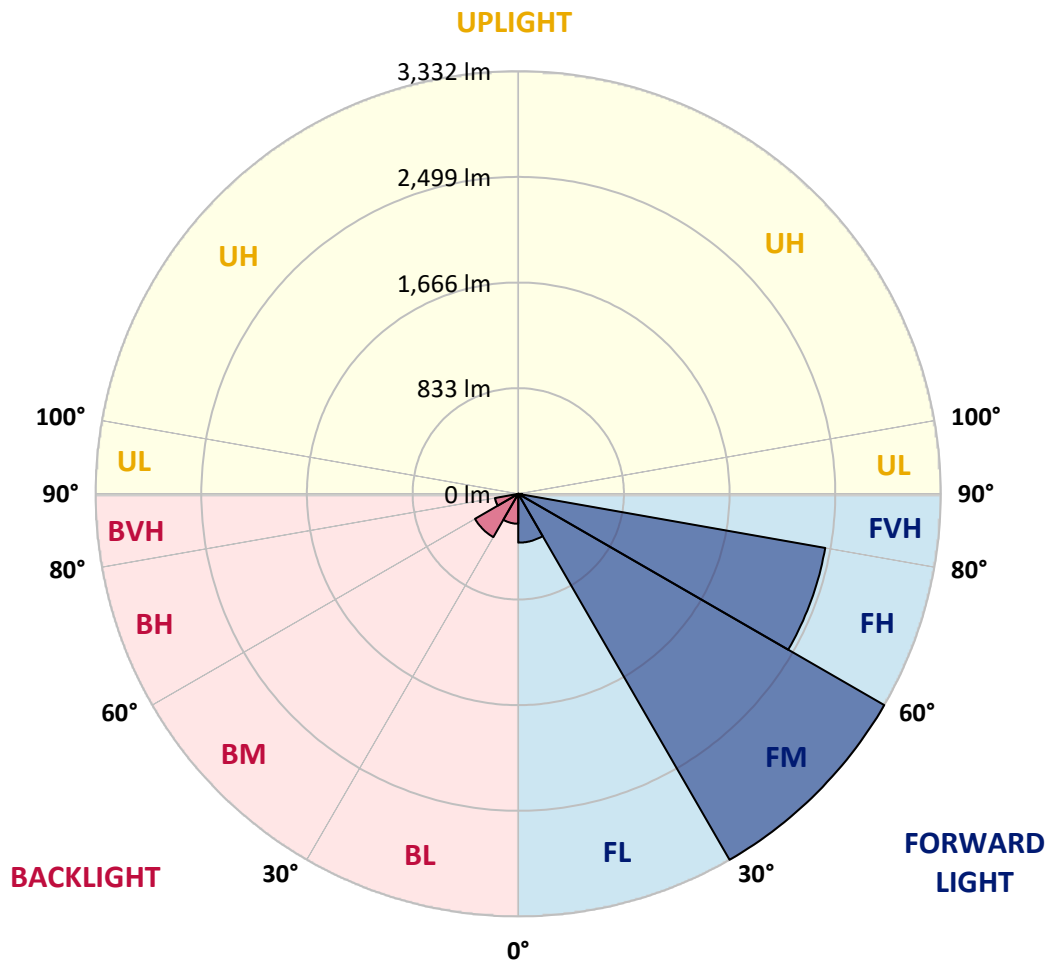
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	385.1	5.5			
FM (30°-60°)	3331.7	47.4			
FH (60°-80°)	2457.5	35.0			G2/5000
FVH (80°-90°)	29.3	0.4			G1/100
BL (0°-30°)	236.3	3.4	B1/500		
BM (30°-60°)	393.9	5.6	B1/1000		
BH (60°-80°)	186.4	2.7	B1/500		G1/500
BVH (80°-90°)	2.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	758.9	758.9	758.9	758.9	758.9	758.9	758.9	758.9	758.9	758.9	758.9
2.5°	738.5	735.9	735.9	741.0	743.6	746.1	751.2	751.2	751.2	756.3	758.9
5°	702.7	702.7	705.2	710.4	720.6	728.2	743.6	746.1	748.7	761.5	766.6
7.5°	679.7	679.7	682.2	692.5	705.2	723.1	743.6	748.7	756.3	774.2	787.0
10°	677.1	674.6	679.7	689.9	705.2	728.2	751.2	758.9	774.2	797.2	815.1
12.5°	684.8	682.2	687.4	697.6	712.9	735.9	766.6	779.3	797.2	827.9	853.4
15°	689.9	687.4	692.5	705.2	723.1	751.2	787.0	802.3	825.3	868.8	894.3
17.5°	705.2	702.7	705.2	715.5	733.4	764.0	810.0	825.3	863.7	912.2	940.3
20°	774.2	771.7	756.3	751.2	753.8	781.9	840.7	866.2	912.2	973.5	994.0
22.5°	917.3	907.1	879.0	833.0	802.3	812.6	879.0	907.1	968.4	1037.4	1052.8
25°	1109.0	1101.3	1060.4	981.2	894.3	868.8	922.4	960.8	1034.9	1111.5	1106.4
27.5°	1326.2	1310.8	1272.5	1162.6	1045.1	960.8	976.1	1009.3	1091.1	1172.9	1147.3
30°	1515.3	1510.1	1466.7	1374.7	1236.7	1111.5	1057.9	1075.8	1149.9	1236.7	1206.1
32.5°	1689.0	1673.7	1637.9	1551.0	1423.3	1295.5	1188.2	1188.2	1249.5	1351.7	1305.7
35°	1880.7	1870.4	1827.0	1740.1	1617.5	1466.7	1369.6	1359.4	1410.5	1525.5	1425.8
37.5°	2077.4	2051.9	2031.4	1942.0	1819.3	1689.0	1571.5	1548.5	1574.0	1658.3	1535.7
40°	2322.7	2322.7	2276.7	2194.9	2080.0	1942.0	1778.4	1719.7	1712.0	1821.9	1727.3
42.5°	2608.9	2601.2	2562.9	2486.2	2376.4	2248.6	2041.6	1988.0	1982.9	2115.7	2003.3
45°	2938.5	2933.4	2887.4	2823.5	2746.9	2606.3	2401.9	2348.3	2317.6	2470.9	2338.0
47.5°	3240.0	3222.2	3206.8	3214.5	3171.0	3012.6	2821.0	2757.1	2754.5	2874.6	2703.4
50°	3447.0	3436.8	3490.5	3541.6	3623.3	3523.7	3296.3	3240.0	3196.6	3355.0	3084.2
52.5°	3582.4	3577.3	3684.6	3830.3	3998.9	3991.3	3789.4	3756.2	3720.4	3763.9	3424.0
55°	3636.1	3636.1	3763.9	4032.2	4328.6	4456.3	4361.8	4315.8	4190.6	4101.2	3797.1
57.5°	3572.2	3564.6	3730.6	4080.7	4533.0	4796.2	4837.1	4783.4	4586.6	4487.0	4211.0
60°	3301.4	3306.5	3503.2	3945.3	4517.7	4934.2	5197.3	5148.8	4952.0	4803.8	4558.5
62.5°	2795.4	2838.9	3045.8	3526.2	4190.6	4824.3	5404.3	5429.9	5217.8	5033.8	4867.7
65°	2100.4	2138.7	2335.5	2867.0	3595.2	4456.3	5442.7	5542.3	5371.1	5184.6	4916.3
67.5°	1277.6	1290.4	1530.6	1931.8	2647.2	3712.8	5174.4	5391.5	5268.9	4962.3	4435.9
70°	595.4	628.6	746.1	1055.3	1676.2	2734.1	4471.7	4778.3	4640.3	4259.6	3372.9
72.5°	232.5	242.7	316.8	488.0	889.2	1719.7	3337.1	3541.6	3447.0	3025.4	2011.0
75°	115.0	122.7	153.3	232.5	406.3	710.4	2039.1	2172.0	2016.1	1520.4	850.9
77.5°	84.3	84.3	102.2	143.1	222.3	263.2	858.6	963.3	909.7	587.7	232.5
80°	56.2	61.3	71.5	97.1	140.5	127.8	324.5	385.8	322.0	181.4	81.8
82.5°	33.2	35.8	53.7	69.0	94.5	74.1	109.9	122.7	132.9	89.4	38.3
85°	17.9	17.9	35.8	51.1	51.1	33.2	38.3	43.4	51.1	53.7	20.4
87.5°	5.1	5.1	23.0	30.7	20.4	17.9	20.4	20.4	23.0	28.1	10.2
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°	758.9	758.9	758.9	758.9	758.9	758.9	758.9	758.9	758.9	758.9	758.9
2.5°	761.5	761.5	764.0	764.0	766.6	766.6	766.6	766.6	769.1	771.7	771.7
5°	769.1	771.7	771.7	771.7	771.7	766.6	764.0	761.5	761.5	764.0	764.0
7.5°	789.6	792.1	789.6	784.5	776.8	766.6	756.3	756.3	753.8	756.3	753.8
10°	820.2	820.2	817.7	804.9	792.1	771.7	751.2	735.9	725.7	723.1	718.0
12.5°	858.6	858.6	850.9	827.9	804.9	766.6	712.9	661.8	620.9	603.0	597.9
15°	896.9	896.9	886.7	853.4	807.5	715.5	603.0	495.7	434.4	408.8	393.5
17.5°	942.9	937.8	919.9	873.9	779.3	613.3	431.8	322.0	273.4	250.4	250.4
20°	991.4	986.3	953.1	876.4	707.8	439.5	281.1	222.3	209.5	204.4	204.4
22.5°	1045.1	1032.3	981.2	856.0	557.0	299.0	212.1	196.8	191.6	189.1	189.1
25°	1088.5	1068.1	1001.7	799.8	398.6	209.5	186.5	181.4	171.2	168.6	163.5
27.5°	1121.7	1091.1	1009.3	679.7	263.2	173.8	166.1	155.9	145.6	135.4	135.4
30°	1165.2	1126.9	1014.4	528.9	178.9	150.8	143.1	130.3	117.5	107.3	107.3
32.5°	1252.1	1195.9	1017.0	370.5	148.2	132.9	117.5	102.2	89.4	84.3	81.8
35°	1346.6	1270.0	988.9	240.2	130.3	112.4	94.5	81.8	69.0	66.4	66.4
37.5°	1451.4	1379.8	927.6	163.5	115.0	94.5	76.7	63.9	56.2	53.7	53.7
40°	1627.7	1543.4	825.3	130.3	99.7	79.2	63.9	53.7	48.5	46.0	46.0
42.5°	1880.7	1735.0	697.6	112.4	86.9	66.4	51.1	43.4	40.9	38.3	38.3
45°	2172.0	1949.6	549.4	102.2	76.7	56.2	43.4	38.3	35.8	33.2	33.2
47.5°	2506.7	2172.0	434.4	89.4	66.4	48.5	38.3	33.2	30.7	28.1	28.1
50°	2823.5	2345.7	327.1	79.2	58.8	40.9	33.2	30.7	28.1	25.6	25.6
52.5°	3084.2	2463.2	247.9	69.0	51.1	35.8	30.7	28.1	23.0	23.0	23.0
55°	3398.5	2555.2	189.1	61.3	46.0	33.2	28.1	23.0	20.4	17.9	17.9
57.5°	3671.9	2588.5	138.0	53.7	40.9	30.7	25.6	20.4	15.3	12.8	12.8
60°	3855.9	2560.3	99.7	46.0	35.8	25.6	20.4	15.3	10.2	7.7	7.7
62.5°	3986.2	2499.0	76.7	40.9	30.7	23.0	17.9	12.8	7.7	5.1	5.1
65°	3855.9	2309.9	61.3	35.8	25.6	20.4	12.8	10.2	5.1	2.6	2.6
67.5°	3334.6	1936.9	48.5	30.7	23.0	17.9	12.8	7.7	2.6	0.0	0.0
70°	2396.8	1382.4	40.9	28.1	20.4	15.3	10.2	5.1	2.6	0.0	0.0
72.5°	1336.4	712.9	38.3	25.6	20.4	15.3	10.2	5.1	2.6	0.0	0.0
75°	541.7	245.3	35.8	25.6	20.4	12.8	10.2	5.1	2.6	0.0	0.0
77.5°	158.4	84.3	30.7	23.0	20.4	15.3	10.2	5.1	2.6	0.0	0.0
80°	56.2	38.3	23.0	20.4	15.3	12.8	10.2	7.7	2.6	0.0	0.0
82.5°	25.6	15.3	10.2	7.7	7.7	7.7	7.7	5.1	2.6	0.0	0.0
85°	10.2	7.7	5.1	2.6	2.6	2.6	2.6	2.6	2.6	0.0	0.0
87.5°	7.7	5.1	2.6	2.6	2.6	2.6	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)