

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: P573107

Luminaire Tested: **ARCH-S-PA2-30-827-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573107
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-PA2-30-827-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 320mA 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: 2870 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

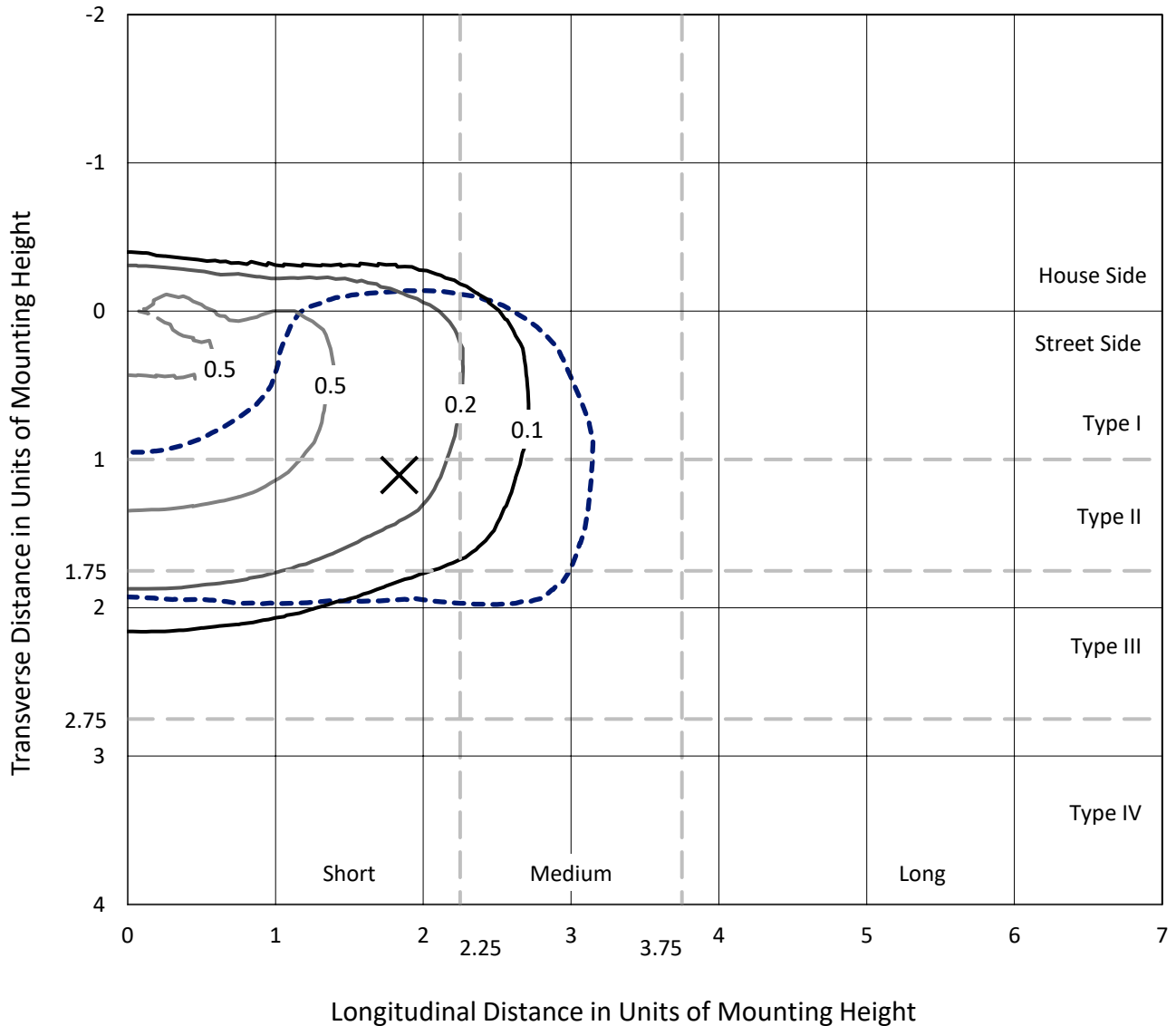
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

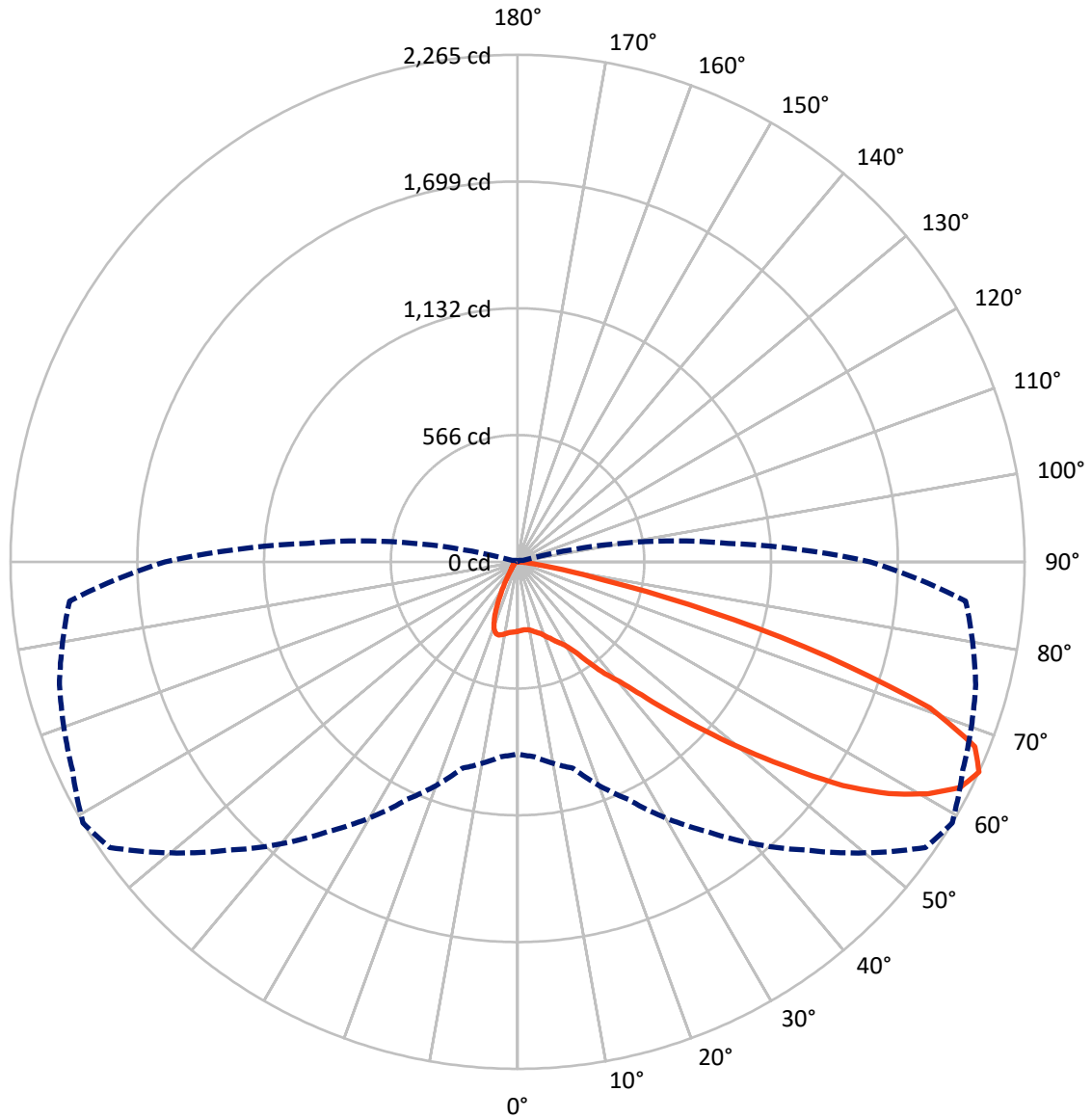
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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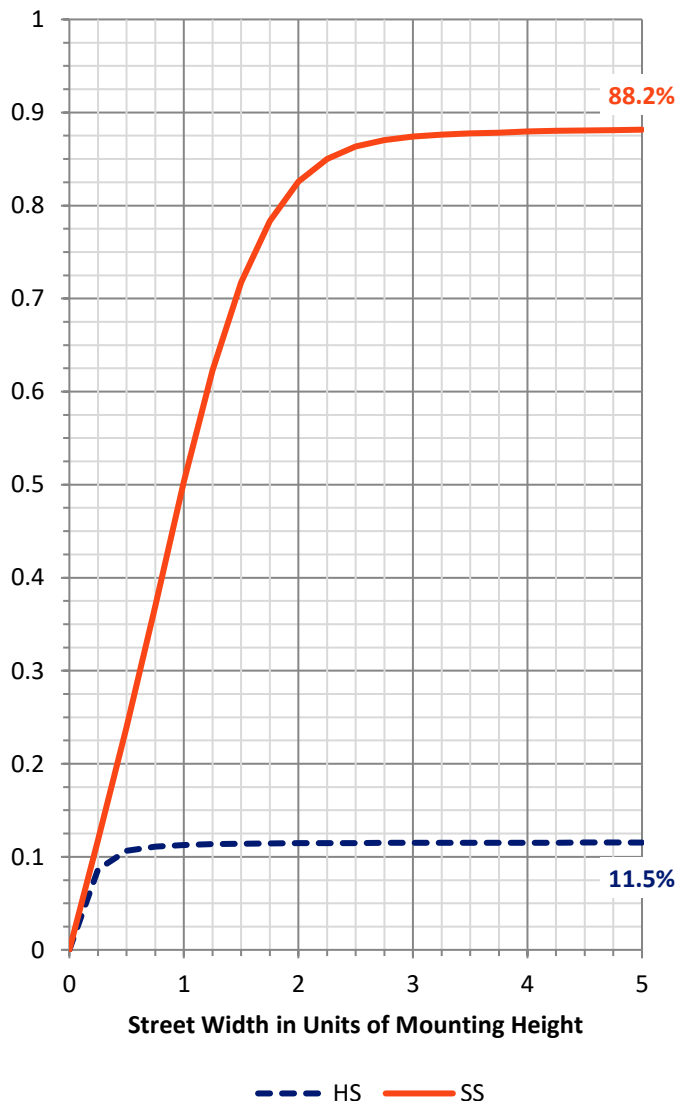
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	334.8	0.0	334.8
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	2535.2	0.0	2535.2
	% Fixture	88.3	0.0	88.3
Total	Lumens	2870.0	0.0	2870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.3	1.0
10°-20°	83.3	2.9
20°-30°	141.4	4.9
30°-40°	250.5	8.7
40°-50°	472.5	16.5
50°-60°	799.5	27.9
60°-70°	831.2	29.0
70°-80°	249.3	8.7
80°-90°	13.1	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°	2870.0	100.0
0°-180°	2870.0	100.0

Coefficient of Utilization



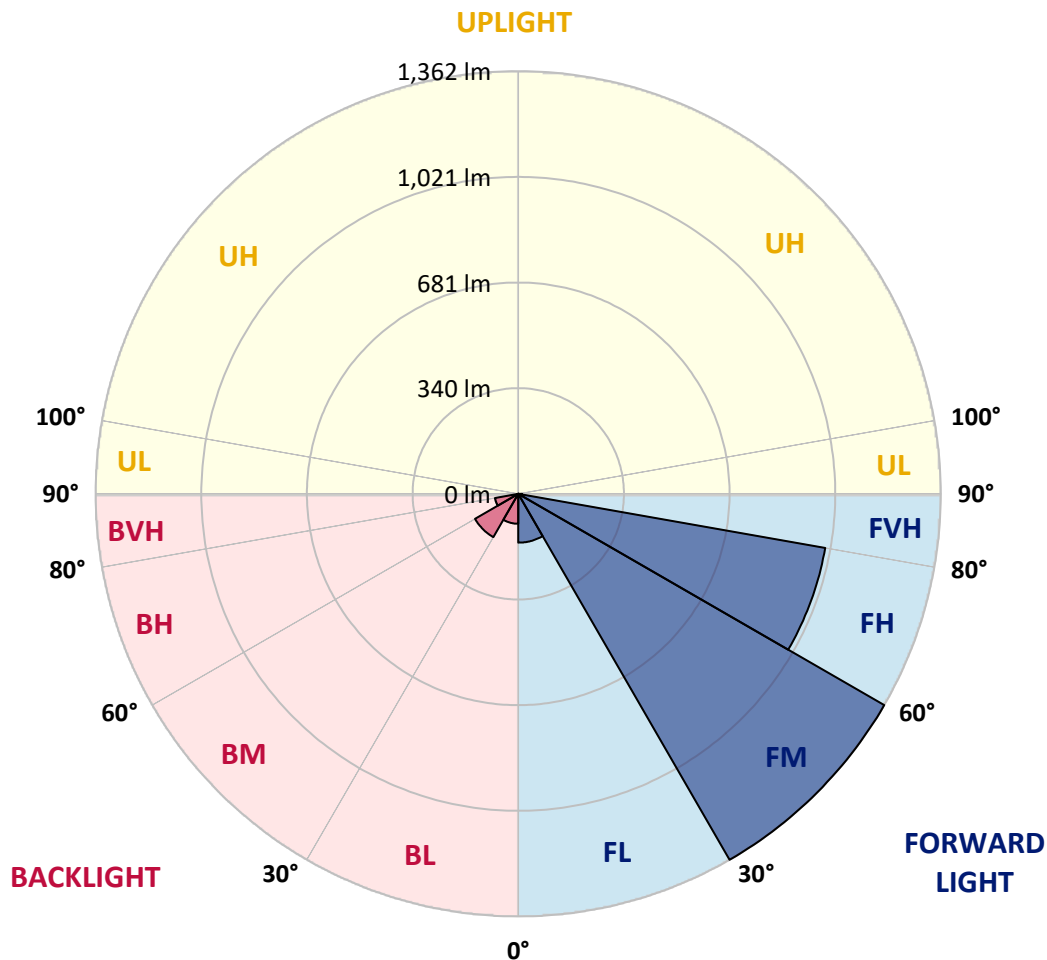
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	157.4	5.5			
FM (30°-60°)	1361.5	47.4			
FH (60°-80°)	1004.3	35.0			G1/1800
FVH (80°-90°)	12.0	0.4			G1/100
BL (0°-30°)	96.6	3.4	B0/110		
BM (30°-60°)	161.0	5.6	B0/220		
BH (60°-80°)	76.2	2.7	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1
2.5°	301.8	300.7	300.7	302.8	303.9	304.9	307.0	307.0	307.0	309.1	310.1
5°	287.2	287.2	288.2	290.3	294.5	297.6	303.9	304.9	306.0	311.2	313.3
7.5°	277.8	277.8	278.8	283.0	288.2	295.5	303.9	306.0	309.1	316.4	321.6
10°	276.7	275.7	277.8	281.9	288.2	297.6	307.0	310.1	316.4	325.8	333.1
12.5°	279.8	278.8	280.9	285.1	291.3	300.7	313.3	318.5	325.8	338.3	348.8
15°	281.9	280.9	283.0	288.2	295.5	307.0	321.6	327.9	337.3	355.0	365.5
17.5°	288.2	287.2	288.2	292.4	299.7	312.2	331.0	337.3	352.9	372.8	384.3
20°	316.4	315.4	309.1	307.0	308.0	319.5	343.5	354.0	372.8	397.8	406.2
22.5°	374.9	370.7	359.2	340.4	327.9	332.1	359.2	370.7	395.8	424.0	430.2
25°	453.2	450.1	433.3	401.0	365.5	355.0	377.0	392.6	422.9	454.2	452.1
27.5°	541.9	535.7	520.0	475.1	427.1	392.6	398.9	412.5	445.9	479.3	468.9
30°	619.2	617.1	599.4	561.8	505.4	454.2	432.3	439.6	469.9	505.4	492.9
32.5°	690.2	684.0	669.3	633.8	581.6	529.4	485.6	485.6	510.6	552.4	533.6
35°	768.5	764.4	746.6	711.1	661.0	599.4	559.7	555.5	576.4	623.4	582.7
37.5°	848.9	838.5	830.2	793.6	743.5	690.2	642.2	632.8	643.2	677.7	627.6
40°	949.2	949.2	930.4	897.0	850.0	793.6	726.8	702.8	699.6	744.5	705.9
42.5°	1066.1	1063.0	1047.3	1016.0	971.1	918.9	834.3	812.4	810.3	864.6	818.7
45°	1200.8	1198.8	1180.0	1153.9	1122.5	1065.1	981.6	959.6	947.1	1009.8	955.5
47.5°	1324.1	1316.8	1310.5	1313.6	1295.9	1231.1	1152.8	1126.7	1125.7	1174.7	1104.8
50°	1408.6	1404.5	1426.4	1447.3	1480.7	1440.0	1347.0	1324.1	1306.3	1371.1	1260.4
52.5°	1464.0	1461.9	1505.8	1565.3	1634.2	1631.1	1548.6	1535.0	1520.4	1538.1	1399.2
55°	1485.9	1485.9	1538.1	1647.8	1768.9	1821.1	1782.5	1763.7	1712.5	1676.0	1551.7
57.5°	1459.8	1456.7	1524.6	1667.6	1852.4	1960.0	1976.7	1954.8	1874.4	1833.6	1720.9
60°	1349.1	1351.2	1431.6	1612.3	1846.2	2016.4	2123.9	2104.1	2023.7	1963.1	1862.9
62.5°	1142.4	1160.1	1244.7	1441.0	1712.5	1971.5	2208.5	2219.0	2132.3	2057.1	1989.2
65°	858.3	874.0	954.4	1171.6	1469.2	1821.1	2224.2	2264.9	2194.9	2118.7	2009.1
67.5°	522.1	527.3	625.5	789.4	1081.8	1517.2	2114.5	2203.3	2153.2	2027.9	1812.8
70°	243.3	256.9	304.9	431.3	685.0	1117.3	1827.4	1952.7	1896.3	1740.7	1378.4
72.5°	95.0	99.2	129.5	199.4	363.4	702.8	1363.7	1447.3	1408.6	1236.4	821.8
75°	47.0	50.1	62.7	95.0	166.0	290.3	833.3	887.6	823.9	621.3	347.7
77.5°	34.5	34.5	41.8	58.5	90.8	107.6	350.9	393.7	371.7	240.2	95.0
80°	23.0	25.1	29.2	39.7	57.4	52.2	132.6	157.7	131.6	74.1	33.4
82.5°	13.6	14.6	21.9	28.2	38.6	30.3	44.9	50.1	54.3	36.5	15.7
85°	7.3	7.3	14.6	20.9	20.9	13.6	15.7	17.8	20.9	21.9	8.4
87.5°	2.1	2.1	9.4	12.5	8.4	7.3	8.4	8.4	9.4	11.5	4.2
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°	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1
2.5°	311.2	311.2	312.2	312.2	313.3	313.3	313.3	313.3	314.3	315.4	315.4
5°	314.3	315.4	315.4	315.4	315.4	313.3	312.2	311.2	311.2	312.2	312.2
7.5°	322.7	323.7	322.7	320.6	317.4	313.3	309.1	309.1	308.0	309.1	308.0
10°	335.2	335.2	334.1	328.9	323.7	315.4	307.0	300.7	296.6	295.5	293.4
12.5°	350.9	350.9	347.7	338.3	328.9	313.3	291.3	270.5	253.7	246.4	244.3
15°	366.5	366.5	362.3	348.8	330.0	292.4	246.4	202.6	177.5	167.1	160.8
17.5°	385.3	383.2	375.9	357.1	318.5	250.6	176.5	131.6	111.7	102.3	102.3
20°	405.2	403.1	389.5	358.2	289.2	179.6	114.9	90.8	85.6	83.5	83.5
22.5°	427.1	421.9	401.0	349.8	227.6	122.2	86.7	80.4	78.3	77.3	77.3
25°	444.8	436.5	409.3	326.8	162.9	85.6	76.2	74.1	70.0	68.9	66.8
27.5°	458.4	445.9	412.5	277.8	107.6	71.0	67.9	63.7	59.5	55.3	55.3
30°	476.2	460.5	414.6	216.2	73.1	61.6	58.5	53.3	48.0	43.9	43.9
32.5°	511.7	488.7	415.6	151.4	60.6	54.3	48.0	41.8	36.5	34.5	33.4
35°	550.3	519.0	404.1	98.2	53.3	45.9	38.6	33.4	28.2	27.1	27.1
37.5°	593.1	563.9	379.1	66.8	47.0	38.6	31.3	26.1	23.0	21.9	21.9
40°	665.2	630.7	337.3	53.3	40.7	32.4	26.1	21.9	19.8	18.8	18.8
42.5°	768.5	709.0	285.1	45.9	35.5	27.1	20.9	17.8	16.7	15.7	15.7
45°	887.6	796.7	224.5	41.8	31.3	23.0	17.8	15.7	14.6	13.6	13.6
47.5°	1024.4	887.6	177.5	36.5	27.1	19.8	15.7	13.6	12.5	11.5	11.5
50°	1153.9	958.6	133.7	32.4	24.0	16.7	13.6	12.5	11.5	10.4	10.4
52.5°	1260.4	1006.6	101.3	28.2	20.9	14.6	12.5	11.5	9.4	9.4	9.4
55°	1388.8	1044.2	77.3	25.1	18.8	13.6	11.5	9.4	8.4	7.3	7.3
57.5°	1500.5	1057.8	56.4	21.9	16.7	12.5	10.4	8.4	6.3	5.2	5.2
60°	1575.7	1046.3	40.7	18.8	14.6	10.4	8.4	6.3	4.2	3.1	3.1
62.5°	1629.0	1021.2	31.3	16.7	12.5	9.4	7.3	5.2	3.1	2.1	2.1
65°	1575.7	944.0	25.1	14.6	10.4	8.4	5.2	4.2	2.1	1.0	1.0
67.5°	1362.7	791.5	19.8	12.5	9.4	7.3	5.2	3.1	1.0	0.0	0.0
70°	979.5	564.9	16.7	11.5	8.4	6.3	4.2	2.1	1.0	0.0	0.0
72.5°	546.1	291.3	15.7	10.4	8.4	6.3	4.2	2.1	1.0	0.0	0.0
75°	221.4	100.2	14.6	10.4	8.4	5.2	4.2	2.1	1.0	0.0	0.0
77.5°	64.7	34.5	12.5	9.4	8.4	6.3	4.2	2.1	1.0	0.0	0.0
80°	23.0	15.7	9.4	8.4	6.3	5.2	4.2	3.1	1.0	0.0	0.0
82.5°	10.4	6.3	4.2	3.1	3.1	3.1	3.1	2.1	1.0	0.0	0.0
85°	4.2	3.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
87.5°	3.1	2.1	1.0	1.0	1.0	1.0	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)