

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: P573109

Luminaire Tested: **ARCH-S-PA2-30-827-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573109
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-PA2-30-827-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 320mA 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: 2827 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

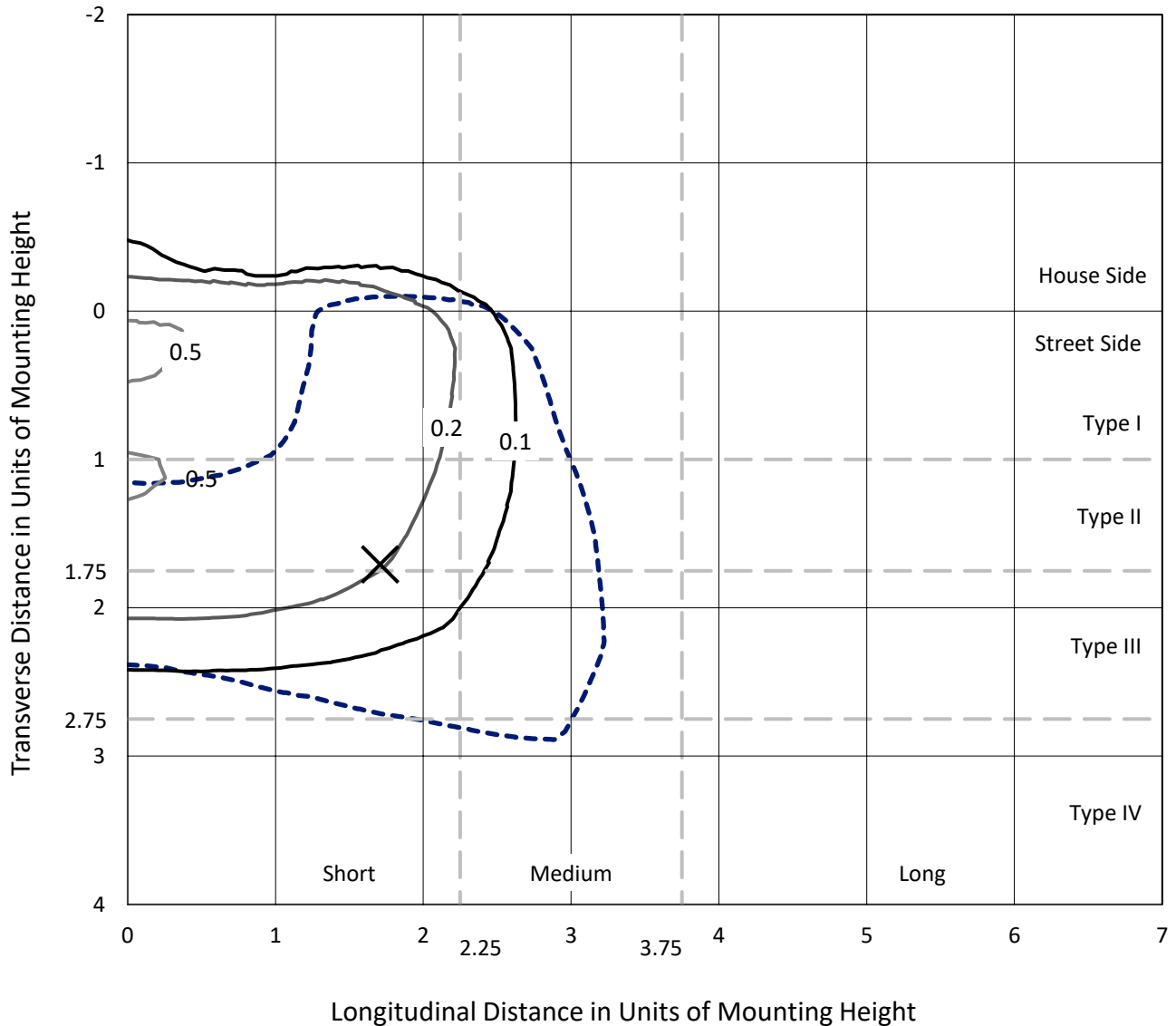
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

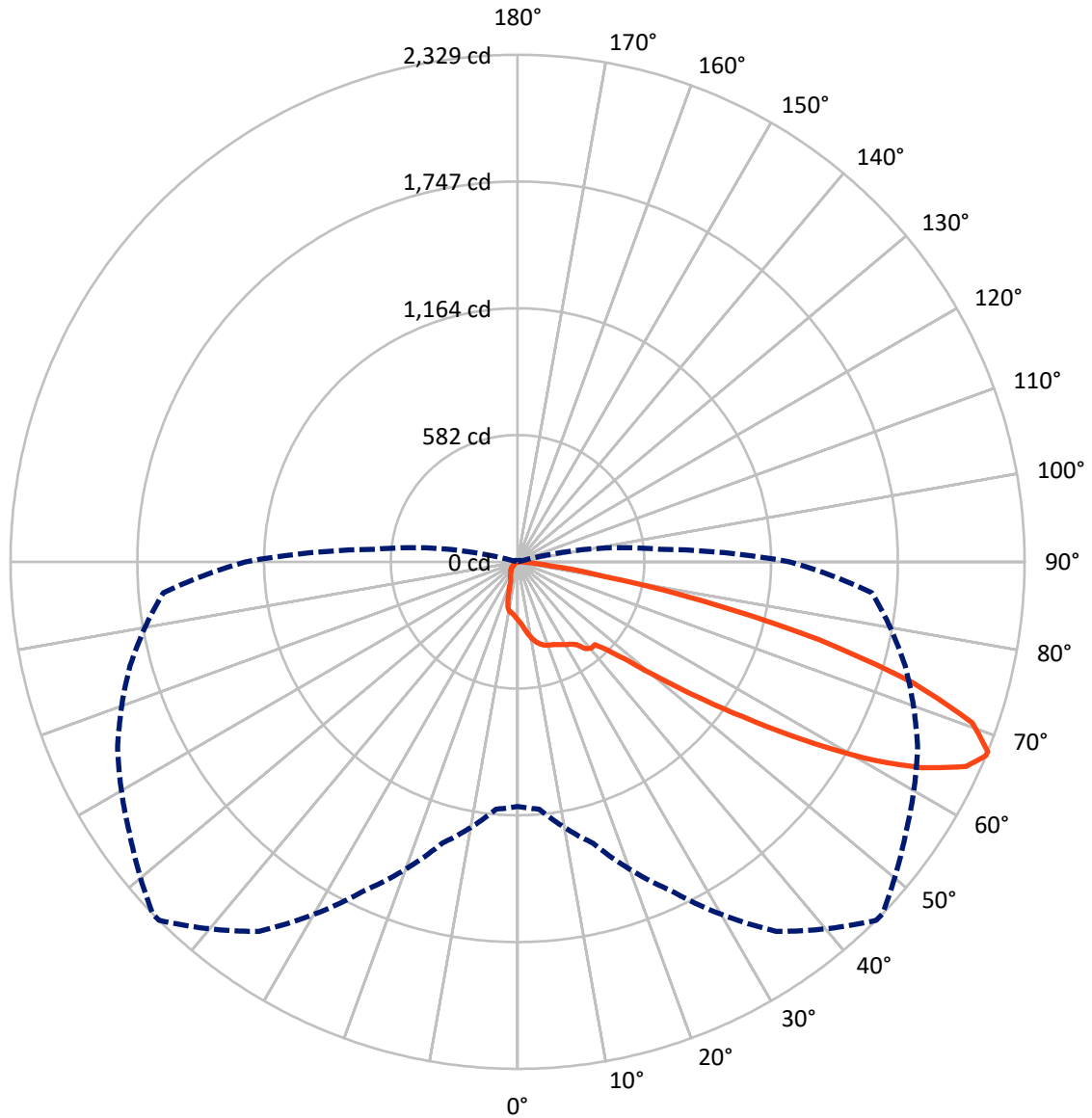
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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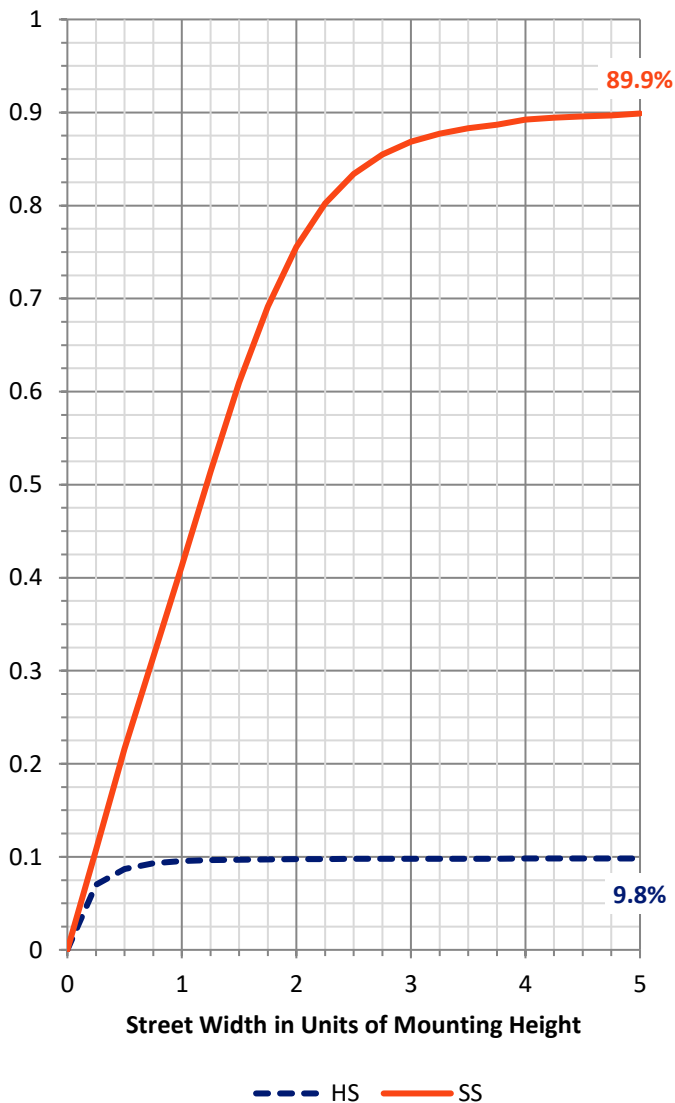
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	280.1	0.0	280.1
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	2546.9	0.0	2546.9
	% Fixture	90.1	0.0	90.1
Total	Lumens	2827.0	0.0	2827.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.8	0.9
10°-20°	81.1	2.9
20°-30°	129.8	4.6
30°-40°	186.8	6.6
40°-50°	327.6	11.6
50°-60°	690.3	24.4
60°-70°	954.6	33.8
70°-80°	399.7	14.1
80°-90°	30.2	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°	2827.0	100.0
0°-180°	2827.0	100.0



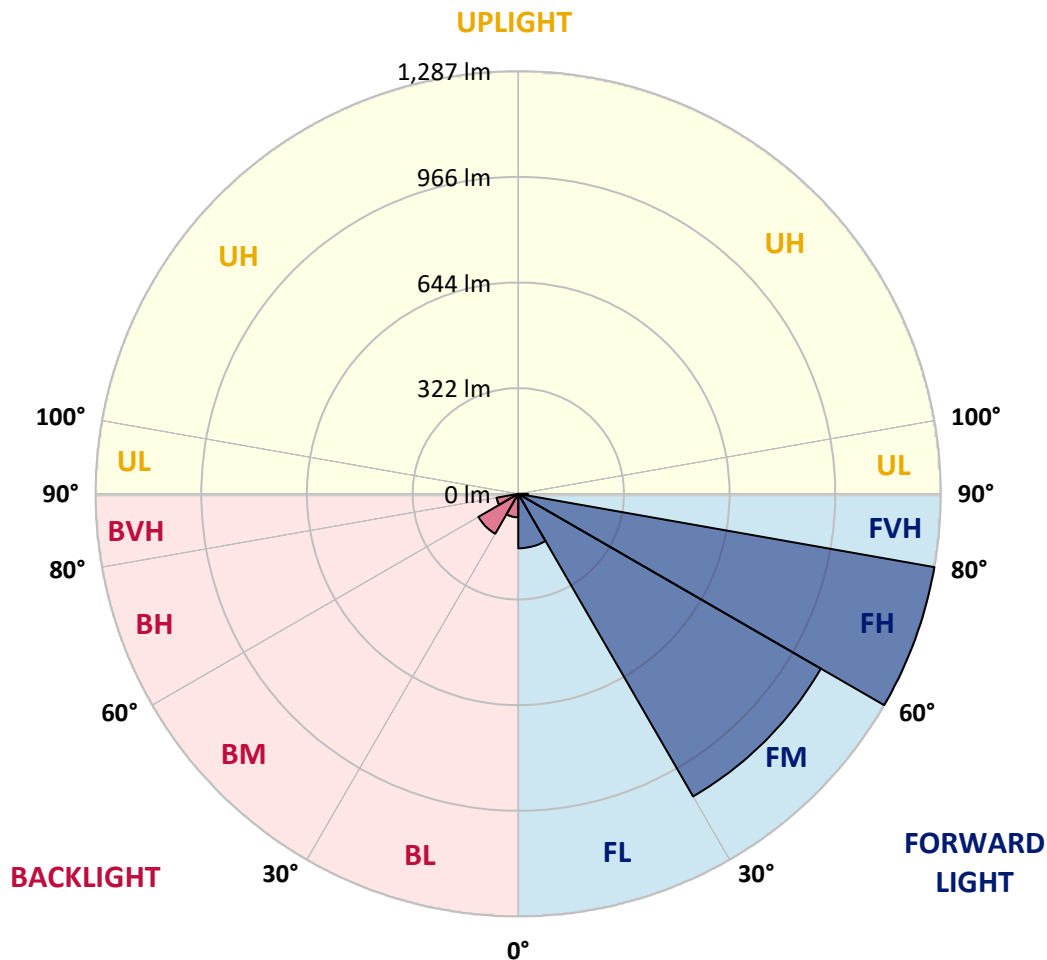
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	165.9	5.9			
FM (30°-60°)	1064.4	37.7			
FH (60°-80°)	1287.3	45.5			G1/1800
FVH (80°-90°)	29.2	1.0			G1/100
BL (0°-30°)	71.8	2.5	B0/110		
BM (30°-60°)	140.3	5.0	B0/220		
BH (60°-80°)	67.0	2.4	B0/110		G0/110
BVH (80°-90°)	1.0	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°	46°	55°	65°	75°	85°
0°	267.4	267.4	267.4	267.4	267.4	267.4	267.4	267.4	267.4	267.4	267.4
2.5°	297.6	292.4	291.4	290.3	287.2	283.0	284.1	280.9	275.7	272.6	269.4
5°	334.2	329.0	326.9	320.6	314.4	305.0	305.0	296.6	287.2	278.8	270.5
7.5°	371.8	367.6	363.4	354.0	344.6	332.1	331.1	318.5	303.9	291.4	277.8
10°	403.1	400.0	394.8	383.3	370.8	357.2	354.0	342.6	323.8	307.0	289.3
12.5°	428.2	425.1	417.7	406.3	390.6	377.0	376.0	361.4	342.6	324.8	302.9
15°	447.0	441.8	433.4	420.9	405.2	392.7	390.6	378.1	360.3	340.5	314.4
17.5°	450.1	447.0	439.7	426.1	412.5	402.1	401.0	391.6	376.0	355.1	327.9
20°	441.8	440.7	434.5	424.0	413.6	408.3	407.3	401.0	388.5	369.7	342.6
22.5°	429.2	428.2	424.0	418.8	414.6	413.6	413.6	411.5	404.2	386.4	361.4
25°	420.9	419.8	417.7	414.6	414.6	420.9	421.9	424.0	417.7	404.2	377.0
27.5°	421.9	419.8	417.7	414.6	418.8	430.3	431.3	436.5	431.3	418.8	394.8
30°	436.5	433.4	427.1	419.8	425.1	440.7	441.8	448.0	443.9	437.6	414.6
32.5°	459.5	457.4	444.9	432.4	435.5	451.2	453.3	464.7	470.0	460.6	432.4
35°	492.9	485.6	470.0	457.4	455.3	466.8	470.0	488.8	502.3	479.4	442.8
37.5°	520.1	513.8	488.8	468.9	480.4	506.5	507.6	530.5	519.1	481.5	459.5
40°	612.0	611.0	567.1	504.4	491.9	521.1	525.3	529.5	524.3	505.5	496.1
42.5°	760.3	747.8	698.7	602.6	517.0	520.1	522.2	544.1	571.3	562.9	566.0
45°	921.1	910.7	855.3	734.2	602.6	576.5	578.6	614.1	666.3	676.8	693.5
47.5°	1069.4	1052.7	1021.4	899.2	748.8	672.6	676.8	719.6	806.3	829.2	855.3
50°	1194.8	1183.3	1154.0	1073.6	928.4	824.0	828.2	863.7	976.5	1013.0	1046.5
52.5°	1376.5	1360.8	1304.4	1266.8	1157.2	1021.4	1012.0	1049.6	1179.1	1203.1	1248.0
55°	1543.6	1511.2	1477.8	1462.1	1416.2	1257.4	1254.3	1261.6	1369.2	1381.7	1462.1
57.5°	1614.6	1608.3	1636.5	1688.7	1699.2	1535.2	1521.6	1493.4	1578.0	1577.0	1671.0
60°	1659.5	1659.5	1734.7	1864.2	1947.7	1831.8	1813.0	1725.3	1755.6	1756.6	1843.3
62.5°	1631.3	1638.6	1755.6	1950.9	2119.0	2083.5	2071.0	1923.7	1921.6	1897.6	1927.9
65°	1456.9	1469.4	1657.4	1902.8	2181.7	2265.2	2260.0	2092.9	2032.3	1944.6	1876.7
67°	1188.5	1211.5	1439.1	1729.5	2110.7	2327.9	2328.9	2166.0	2033.4	1866.3	1696.1
67.5°	1123.7	1140.4	1337.8	1666.8	2072.0	2328.9	2328.9	2175.4	2027.1	1842.3	1633.4
70°	716.4	720.6	935.8	1289.8	1770.2	2216.1	2224.5	2104.4	1846.4	1491.4	1146.7
72.5°	354.0	344.6	494.0	830.3	1328.4	1896.6	1918.5	1797.4	1461.1	974.4	605.7
75°	138.9	148.3	215.1	441.8	832.4	1429.7	1446.4	1307.5	939.9	502.3	239.2
77.5°	61.6	61.6	91.9	198.4	437.6	877.3	885.6	797.9	496.1	206.8	73.1
80°	33.4	35.5	48.0	86.7	220.4	403.1	439.7	395.8	224.5	90.9	25.1
82.5°	16.7	17.8	29.2	49.1	110.7	152.5	160.8	168.1	103.4	56.4	10.4
85°	6.3	7.3	15.7	28.2	50.1	51.2	51.2	65.8	56.4	42.8	5.2
87.5°	1.0	2.1	7.3	11.5	19.8	17.8	15.7	20.9	31.3	27.2	3.1
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°	267.4	267.4	267.4	267.4	267.4	267.4	267.4	267.4	267.4	267.4	267.4
2.5°	267.4	265.3	261.1	258.0	255.9	253.8	251.7	251.7	250.6	250.6	251.7
5°	267.4	263.2	254.8	249.6	245.4	242.3	240.2	240.2	239.2	240.2	241.2
7.5°	272.6	266.3	254.8	245.4	240.2	235.0	232.9	231.8	231.8	232.9	231.8
10°	280.9	272.6	258.0	245.4	238.1	230.8	219.3	208.9	199.5	195.3	194.3
12.5°	291.4	280.9	263.2	248.6	237.1	212.0	180.7	160.8	148.3	142.0	139.9
15°	302.9	290.3	269.4	252.7	221.4	174.4	133.7	111.7	104.4	105.5	106.5
17.5°	315.4	301.8	278.8	250.6	190.1	129.5	98.2	92.9	96.1	99.2	99.2
20°	327.9	313.3	288.2	235.0	149.3	96.1	87.7	88.8	91.9	95.0	95.0
22.5°	344.6	329.0	297.6	207.8	110.7	83.5	83.5	85.6	87.7	90.9	90.9
25°	362.4	346.7	303.9	174.4	82.5	78.3	79.4	81.5	83.5	86.7	86.7
27.5°	381.2	365.5	302.9	134.7	72.1	72.1	73.1	76.2	78.3	81.5	81.5
30°	402.1	388.5	291.4	98.2	66.8	65.8	65.8	68.9	72.1	74.2	75.2
32.5°	419.8	408.3	271.5	74.2	62.7	60.6	59.5	60.6	63.7	65.8	66.8
35°	434.5	430.3	242.3	63.7	58.5	55.4	53.3	52.2	53.3	53.3	54.3
37.5°	461.6	462.7	207.8	59.5	55.4	51.2	47.0	43.9	41.8	40.7	39.7
40°	512.8	511.7	171.3	56.4	52.2	47.0	40.7	36.6	31.3	29.2	29.2
42.5°	584.8	569.2	130.5	53.3	49.1	42.8	34.5	28.2	23.0	21.9	21.9
45°	714.3	649.6	98.2	51.2	46.0	37.6	28.2	20.9	17.8	16.7	16.7
47.5°	857.4	742.5	78.3	48.0	42.8	33.4	21.9	16.7	13.6	13.6	13.6
50°	1015.1	831.3	65.8	44.9	37.6	28.2	17.8	13.6	12.5	11.5	12.5
52.5°	1187.4	901.3	57.4	40.7	32.4	23.0	14.6	12.5	10.4	10.4	10.4
55°	1342.0	948.3	48.0	35.5	27.2	18.8	13.6	10.4	9.4	8.4	7.3
57.5°	1482.0	973.4	38.6	30.3	20.9	15.7	11.5	8.4	7.3	5.2	5.2
60°	1554.0	950.4	30.3	24.0	16.7	12.5	9.4	7.3	5.2	3.1	3.1
62.5°	1565.5	890.8	24.0	18.8	14.6	10.4	7.3	5.2	3.1	2.1	2.1
65°	1465.2	786.4	19.8	15.7	11.5	8.4	6.3	4.2	2.1	1.0	1.0
67°	1285.6	676.8	17.8	13.6	10.4	7.3	5.2	3.1	2.1	1.0	0.0
67.5°	1250.1	656.9	16.7	13.6	10.4	7.3	5.2	3.1	2.1	1.0	0.0
70°	820.9	454.3	15.7	12.5	9.4	6.3	4.2	3.1	1.0	0.0	0.0
72.5°	448.0	228.7	14.6	11.5	8.4	6.3	4.2	2.1	1.0	0.0	0.0
75°	164.0	86.7	12.5	10.4	7.3	6.3	4.2	2.1	1.0	0.0	0.0
77.5°	55.4	30.3	11.5	10.4	8.4	6.3	4.2	2.1	1.0	0.0	0.0
80°	18.8	13.6	9.4	8.4	6.3	5.2	4.2	2.1	1.0	0.0	0.0
82.5°	7.3	4.2	3.1	3.1	3.1	4.2	4.2	3.1	1.0	0.0	0.0
85°	3.1	2.1	1.0	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	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)