

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: P348845

Luminaire Tested: **ARCH-N-PA1-40-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-40-827-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 740mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2862 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 41
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: 28.75 FT

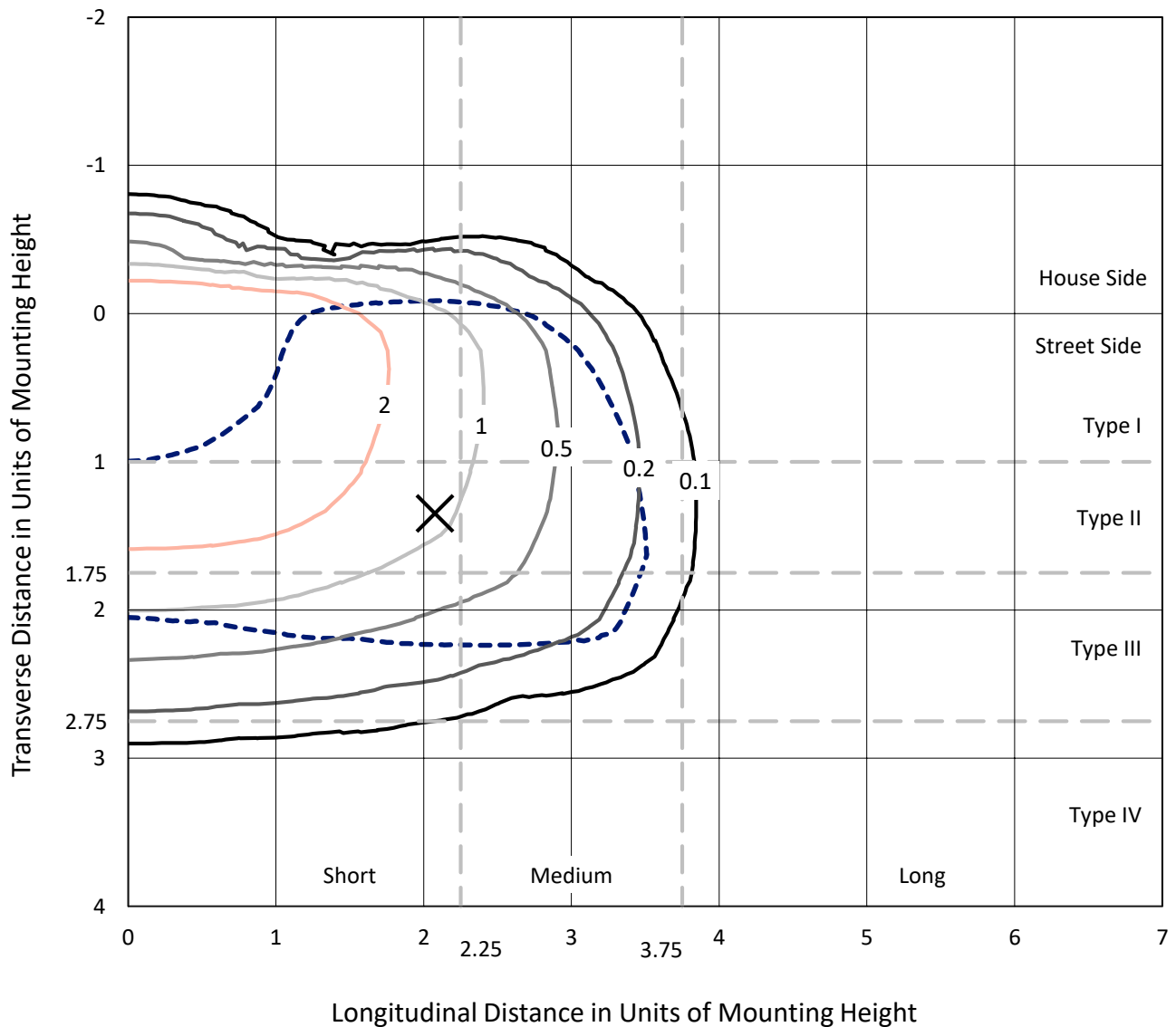


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

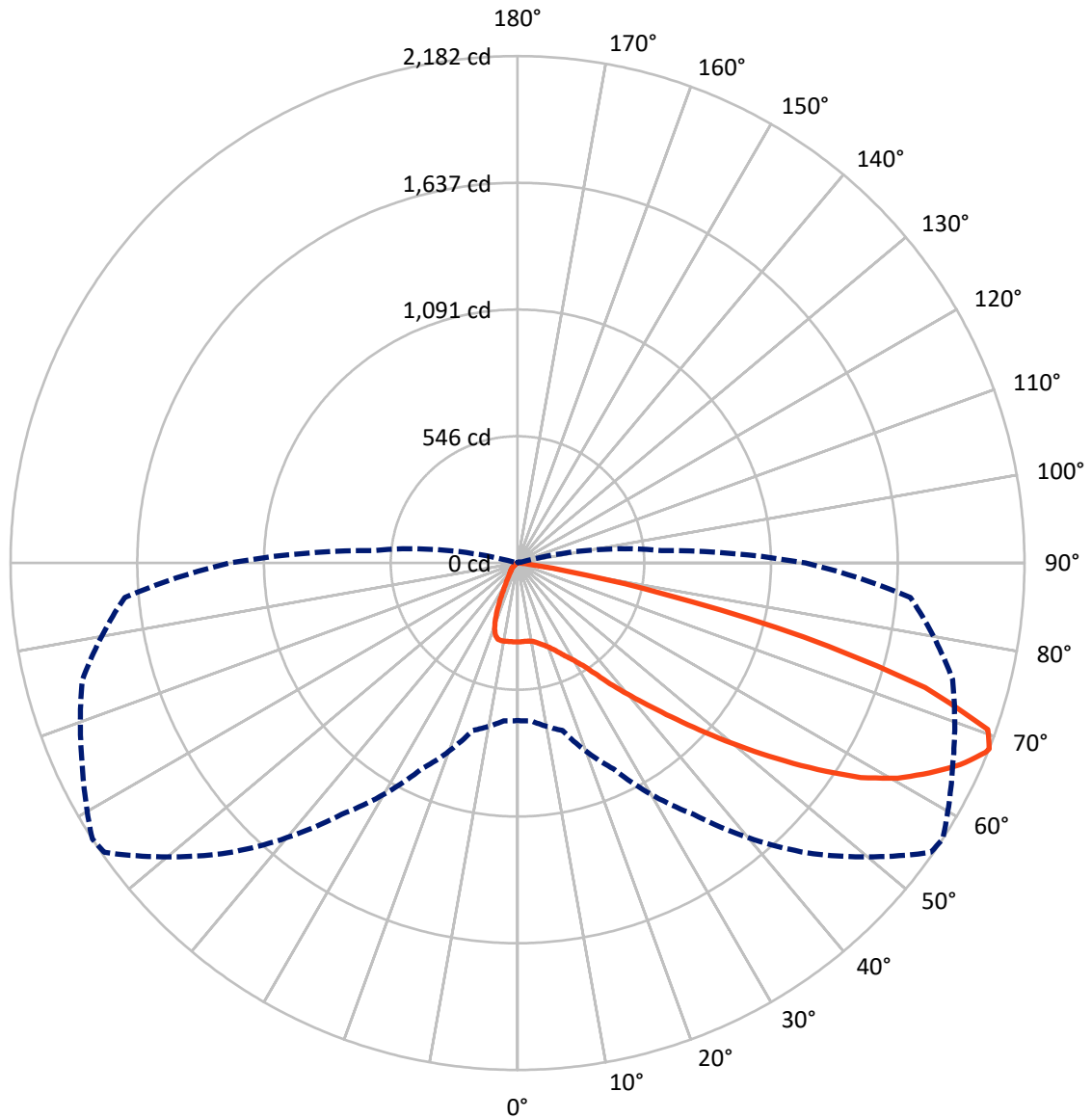


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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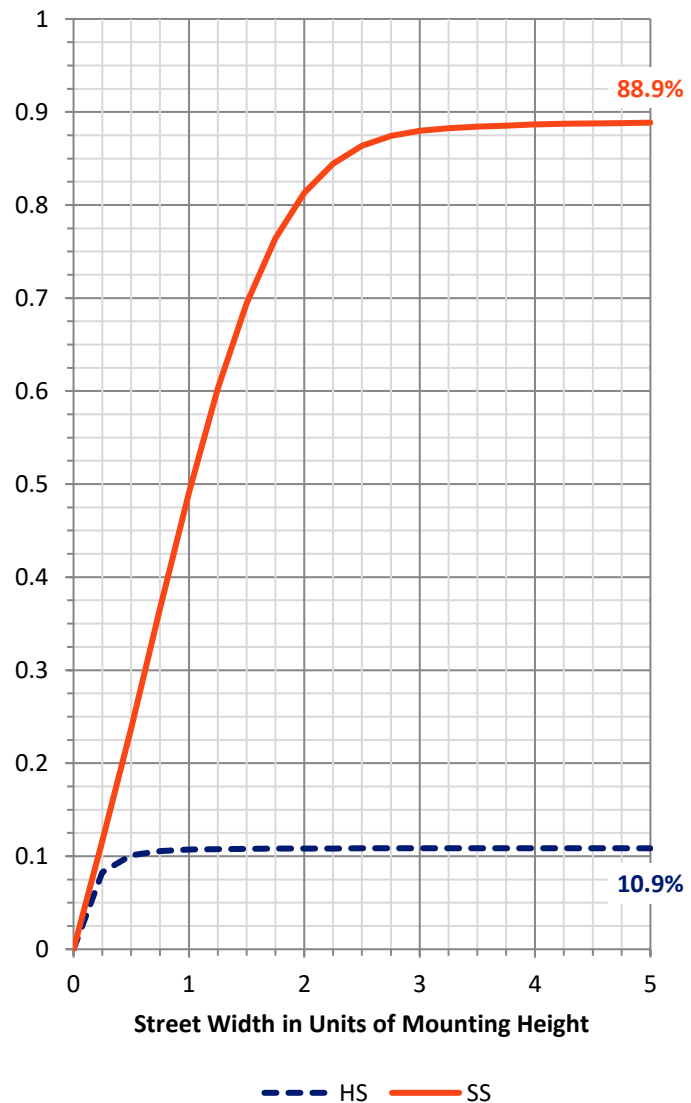
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	313.8	0.0	313.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	2548.2	0.0	2548.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	2862.0	0.0	2862.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.8	1.1
10°-20°	88.2	3.1
20°-30°	152.1	5.3
30°-40°	262.6	9.2
40°-50°	449.2	15.7
50°-60°	718.6	25.1
60°-70°	830.3	29.0
70°-80°	317.3	11.1
80°-90°	11.9	0.4
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°	2862.0	100.0
0°-180°	2862.0	100.0



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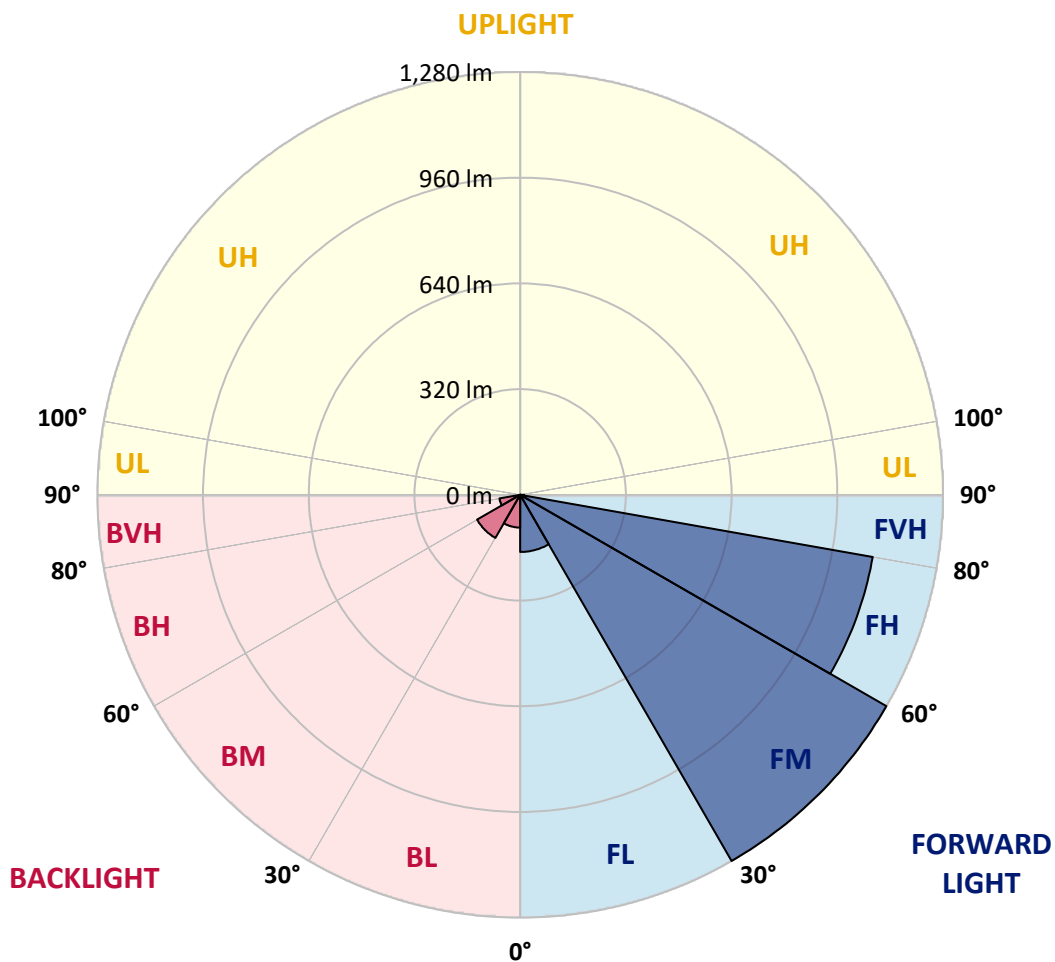
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	173.0	6.0			
FM	(30°-60°)	1279.9	44.7			
FH	(60°-80°)	1083.6	37.9			G1/1800
FVH	(80°-90°)	11.7	0.4			G1/100
BL	(0°-30°)	99.2	3.5	B0/110		
BM	(30°-60°)	150.5	5.3	B0/220		
BH	(60°-80°)	63.9	2.2	B0/110		G0/110
BVH	(80°-90°)	0.2	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°	57°	65°	75°	85°
0°	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1
2.5°	332.1	333.6	334.7	335.3	336.2	337.9	338.5	339.3	339.7	339.7	340.6
5°	319.0	320.6	322.9	324.8	328.6	333.4	337.0	338.3	340.8	342.9	344.1
7.5°	306.8	308.7	311.4	315.9	322.4	330.2	337.5	339.4	344.1	348.7	351.0
10°	298.9	300.4	303.9	310.3	318.8	329.8	340.1	342.4	350.5	358.2	362.5
12.5°	296.2	297.6	301.2	308.4	319.0	331.8	346.0	349.4	361.3	372.6	378.6
15°	300.2	300.4	304.4	311.1	321.5	336.8	355.9	360.0	375.0	389.6	397.2
17.5°	315.3	314.1	316.1	319.1	327.4	343.5	366.3	372.4	392.5	409.6	416.8
20°	353.2	353.2	348.6	340.5	340.6	353.7	380.4	387.3	411.8	431.7	438.2
22.5°	418.0	416.8	407.6	387.7	369.4	371.5	397.6	406.5	435.1	456.3	458.5
25°	496.0	494.5	480.3	452.3	420.6	400.2	420.9	431.2	462.8	481.6	477.2
27.5°	578.5	577.3	563.2	528.5	483.4	445.9	448.6	458.4	491.1	509.6	495.4
30°	658.5	658.9	645.0	609.2	558.2	504.2	483.8	489.5	518.6	537.4	517.1
32.5°	734.6	735.1	723.1	683.1	635.5	572.0	532.5	531.0	550.5	569.1	545.8
35°	802.4	803.7	795.5	764.5	714.0	647.5	595.7	592.2	595.9	616.8	589.8
37.5°	867.7	868.5	862.3	836.2	794.0	730.5	675.6	670.6	662.7	678.8	647.8
40°	939.3	937.3	930.1	906.4	870.2	822.1	761.4	752.7	739.0	753.4	724.1
42.5°	1005.9	1003.6	1004.8	978.0	947.4	916.3	861.4	846.5	838.5	855.0	817.8
45°	1089.1	1087.9	1092.0	1068.7	1043.9	1021.3	976.0	959.8	956.2	975.6	931.1
47.5°	1171.3	1174.2	1186.8	1177.0	1166.9	1147.0	1097.4	1090.1	1092.2	1115.6	1050.6
50°	1239.7	1243.3	1277.8	1289.1	1303.6	1292.0	1242.2	1237.7	1246.2	1267.4	1179.1
52.5°	1289.3	1296.4	1339.3	1391.7	1444.5	1452.3	1402.7	1398.6	1410.1	1413.4	1278.5
55°	1323.7	1330.0	1378.6	1474.4	1581.9	1615.7	1584.8	1569.1	1567.0	1534.9	1382.9
57.5°	1329.7	1329.1	1398.9	1527.9	1689.6	1776.9	1757.4	1742.0	1697.6	1647.2	1502.7
60°	1295.4	1299.3	1380.4	1546.4	1757.2	1898.8	1900.3	1880.3	1811.1	1756.4	1618.8
62.5°	1189.5	1205.5	1287.4	1497.8	1756.4	1947.9	2005.0	1989.7	1907.1	1845.9	1736.5
65°	1017.9	1023.6	1101.7	1331.4	1637.7	1927.4	2099.4	2093.7	1993.5	1932.8	1797.0
67.5°	743.4	731.0	813.1	1048.4	1386.6	1807.5	2167.0	2174.2	2060.2	1950.6	1732.6
68°	678.4	682.1	745.9	978.4	1320.8	1765.1	2171.5	2182.4	2066.9	1939.0	1697.4
70°	404.4	411.4	468.4	673.7	1004.8	1525.4	2123.3	2148.3	2027.4	1819.0	1468.2
72.5°	103.3	111.6	165.5	301.5	573.9	1074.8	1792.4	1834.8	1760.2	1475.6	991.1
75°	42.5	44.7	59.1	99.3	213.8	484.2	1181.4	1272.1	1220.3	883.4	447.9
77.5°	29.4	30.9	38.0	55.1	92.6	164.2	579.2	644.7	580.8	301.5	97.7
80°	21.1	22.3	27.2	36.7	53.2	58.6	188.8	218.3	173.4	66.2	24.2
82.5°	12.6	13.5	20.3	26.1	32.3	28.0	47.0	53.3	50.2	32.9	10.8
85°	6.2	7.3	13.7	18.7	17.5	11.8	14.3	16.0	19.8	20.0	5.8
87.5°	0.4	0.8	8.0	11.2	4.9	2.7	4.2	5.1	7.0	9.9	2.4
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°	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1	340.1
2.5°	341.0	341.2	340.2	339.8	340.1	338.5	337.8	338.1	338.1	338.5	337.8
5°	344.4	344.4	342.8	340.6	339.4	336.3	334.3	333.7	333.3	333.0	332.5
7.5°	351.7	350.9	348.1	343.3	339.3	332.5	327.4	324.7	323.3	322.8	322.4
10°	363.5	362.0	357.3	348.5	339.1	327.1	315.9	307.9	301.2	298.5	296.9
12.5°	379.3	377.2	369.2	354.6	338.2	316.0	291.6	268.2	246.4	237.5	233.0
15°	397.6	394.5	381.9	359.7	332.6	291.0	238.0	197.0	166.9	155.5	150.6
17.5°	416.1	412.1	393.0	363.0	316.0	239.1	167.0	126.1	106.0	100.5	98.7
20°	434.8	428.9	402.6	360.5	278.4	172.4	110.2	92.2	86.3	84.7	84.2
22.5°	452.5	443.3	411.3	351.0	220.5	115.7	87.2	81.5	79.6	78.6	78.4
25°	468.0	455.1	418.8	321.8	156.0	87.4	78.5	76.6	74.2	72.4	72.5
27.5°	482.4	466.9	423.4	273.6	104.1	74.7	72.7	70.1	65.6	63.1	63.1
30°	499.9	482.6	426.8	210.6	76.6	66.0	64.4	60.5	54.4	51.0	51.0
32.5°	526.2	506.4	424.7	147.8	63.5	58.1	54.3	48.9	42.2	39.0	38.8
35°	566.4	543.2	409.2	96.9	56.0	50.5	44.4	37.8	31.9	29.2	29.1
37.5°	620.5	592.5	374.6	69.3	50.2	43.4	36.1	28.8	24.5	22.7	22.6
40°	690.7	649.7	325.1	56.2	44.8	36.7	27.9	22.3	19.4	18.0	18.1
42.5°	775.0	711.0	265.7	48.4	39.5	30.2	21.8	17.6	15.7	14.8	14.5
45°	868.7	771.5	203.4	43.2	34.2	24.4	17.1	13.9	12.5	11.9	11.9
47.5°	971.7	830.4	148.9	38.6	28.6	18.8	13.7	11.4	10.1	9.7	9.6
50°	1065.2	871.2	107.3	33.7	23.4	14.9	11.1	9.5	8.7	8.1	8.1
52.5°	1143.1	884.1	79.0	28.4	18.9	11.9	9.2	8.1	7.3	6.9	6.9
55°	1211.7	878.8	58.7	23.4	15.3	9.7	7.8	6.9	6.2	5.8	5.8
57.5°	1277.5	861.8	43.8	19.1	12.3	7.8	6.6	5.8	5.1	4.9	4.9
60°	1331.2	833.4	32.6	15.4	9.9	6.4	5.5	4.7	4.2	3.8	3.8
62.5°	1374.8	802.0	24.0	12.7	7.8	5.0	4.3	3.9	3.1	2.7	2.7
65°	1375.1	749.9	18.0	10.6	6.1	3.9	3.2	3.1	2.0	1.6	1.5
67.5°	1275.6	646.5	13.8	9.1	4.7	3.0	2.4	2.6	1.1	0.7	0.5
68°	1239.5	620.2	13.0	8.9	4.5	2.8	2.3	2.6	0.9	0.5	0.4
70°	1045.0	493.4	10.4	8.7	3.9	2.2	1.9	2.6	0.8	0.4	0.3
72.5°	668.4	286.4	7.7	6.9	3.0	1.6	1.2	2.3	0.8	0.3	0.1
75°	284.5	88.8	5.3	4.9	1.8	1.2	0.8	1.5	0.5	0.1	0.0
77.5°	60.0	20.0	3.1	3.0	1.2	0.8	0.5	0.4	0.1	0.0	0.0
80°	15.4	5.8	1.6	1.5	0.7	0.4	0.3	0.0	0.0	0.0	0.0
82.5°	4.9	2.3	0.9	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	1.4	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.4	0.1	0.0	0.0	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)