

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: P397803

Luminaire Tested: **ARCH-S-PA1-40-827-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-40-827-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3160 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G1

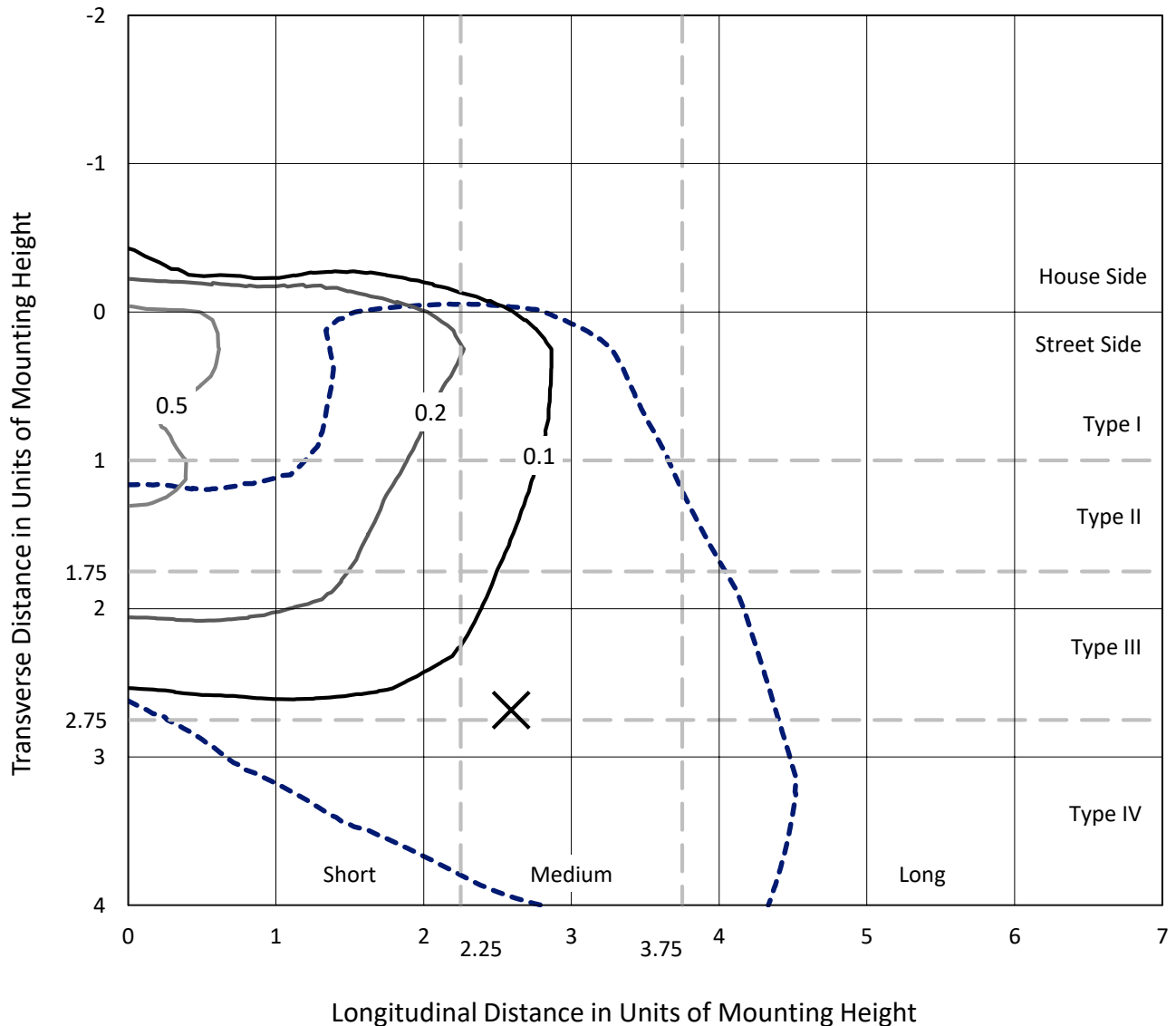
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

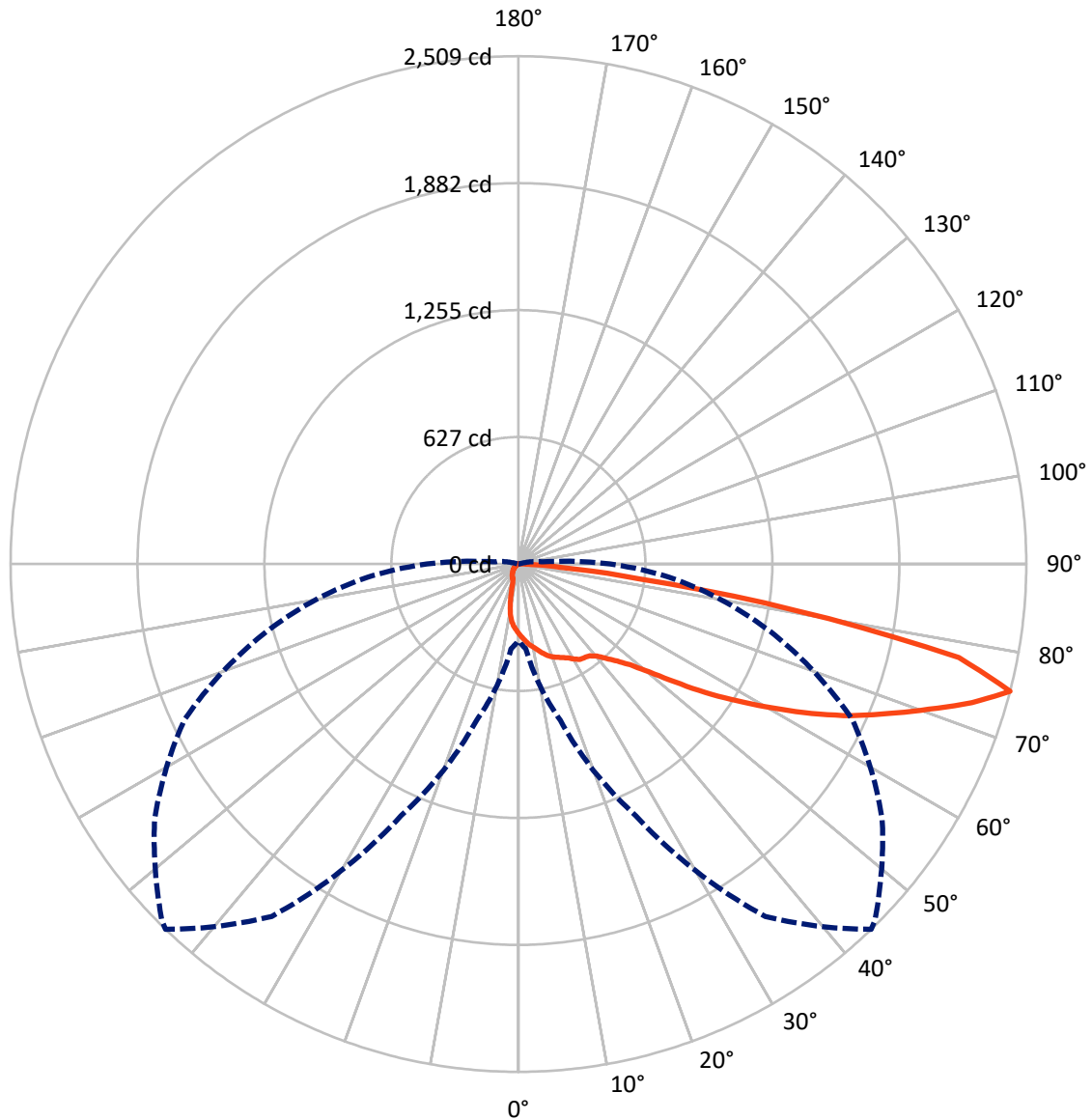


Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



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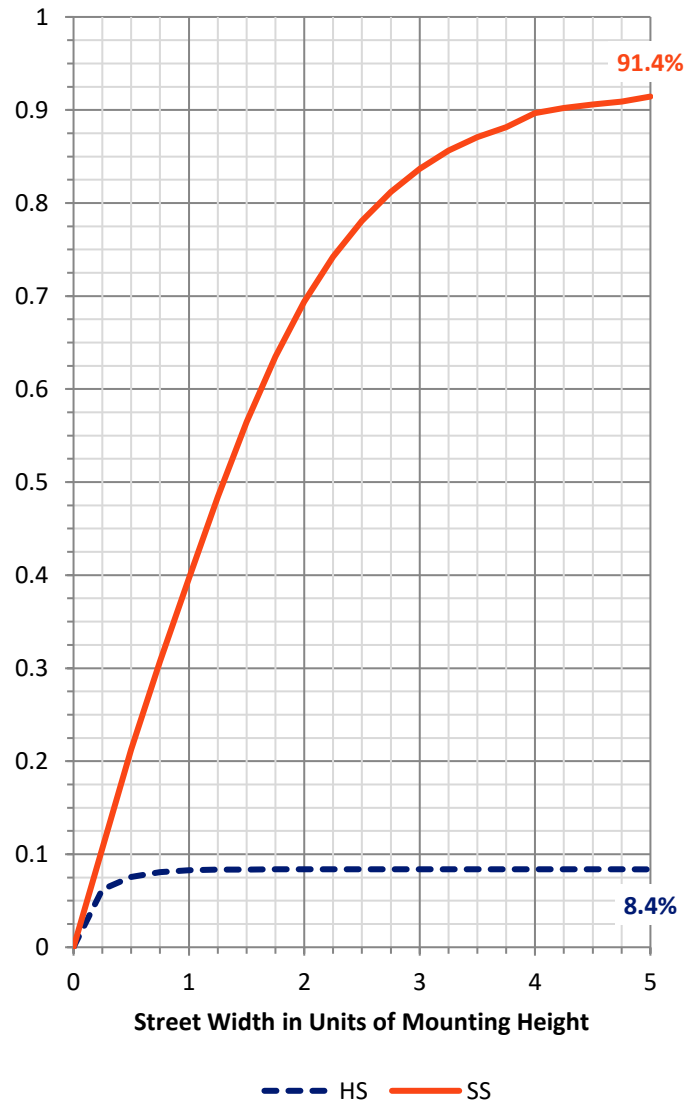
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	266.5	0.0	266.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2893.5	0.0	2893.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	3160.0	0.0	3160.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.4	1.0
10°-20°	90.9	2.9
20°-30°	150.0	4.7
30°-40°	217.7	6.9
40°-50°	353.9	11.2
50°-60°	623.9	19.7
60°-70°	896.7	28.4
70°-80°	718.0	22.7
80°-90°	76.5	2.4
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°	3160.0	100.0
0°-180°	3160.0	100.0



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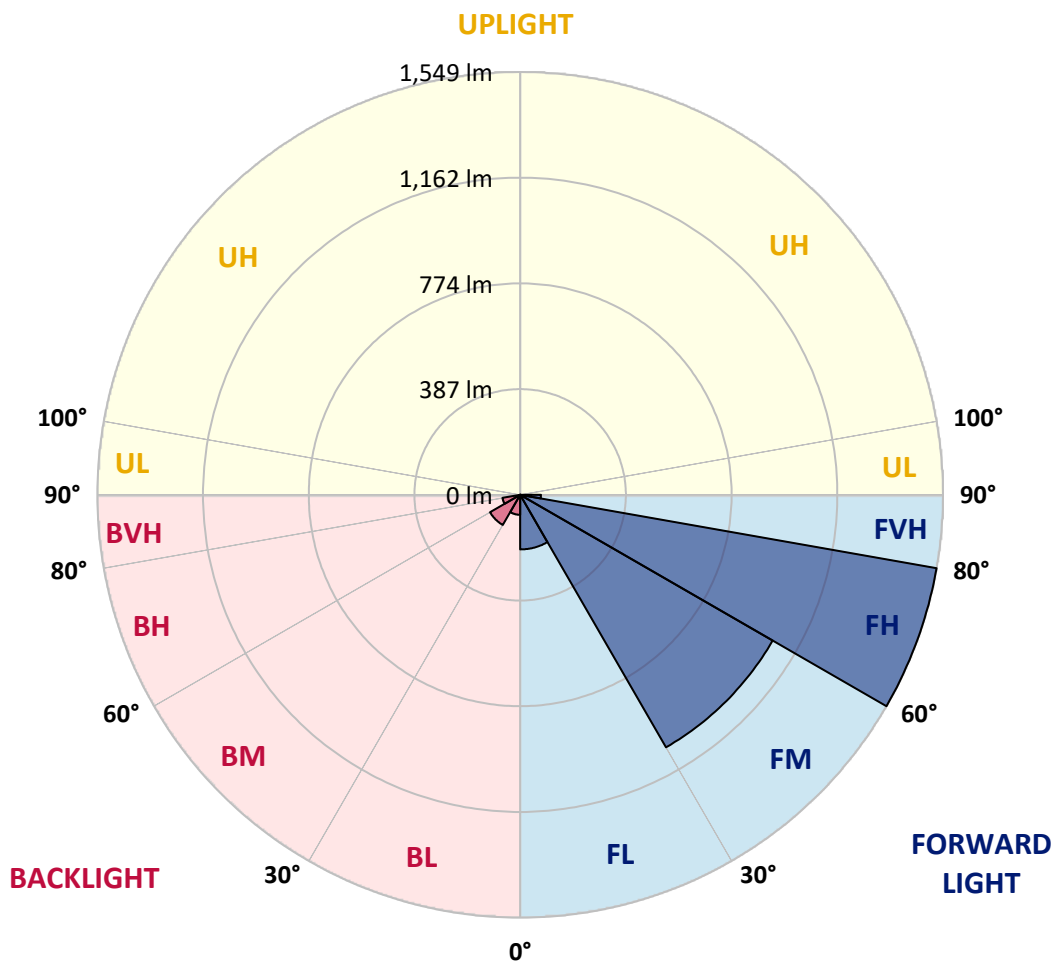
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	200.1	6.3			
FM	(30°-60°)	1068.1	33.8			
FH	(60°-80°)	1549.0	49.0			G1/1800
FVH	(80°-90°)	76.3	2.4			G1/100
BL	(0°-30°)	73.2	2.3	B0/110		
BM	(30°-60°)	127.4	4.0	B0/220		
BH	(60°-80°)	65.7	2.1	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	344.0	344.0	344.0	344.0	344.0	344.0	344.0	344.0	344.0	344.0	344.0
2.5°	374.9	374.3	372.5	369.6	366.7	363.8	363.2	358.5	353.3	349.2	345.7
5°	408.1	407.5	404.6	398.2	391.8	384.2	383.6	372.5	362.6	351.5	342.2
7.5°	442.5	441.3	436.1	426.2	415.1	403.4	402.3	385.9	371.4	356.8	343.4
10°	469.3	468.1	460.5	448.9	433.7	419.2	417.4	400.5	385.9	367.3	349.2
12.5°	495.5	493.2	483.3	470.5	451.8	437.8	436.1	418.6	401.1	381.8	359.7
15°	520.0	517.1	507.8	491.4	471.6	458.2	457.1	438.4	420.3	398.2	373.7
17.5°	536.9	535.8	524.7	506.6	487.4	476.3	475.1	455.9	437.8	414.5	388.3
20°	545.7	545.7	535.2	515.3	497.9	490.3	488.5	470.5	453.0	430.8	403.4
22.5°	547.4	549.2	541.0	519.4	506.6	500.2	499.0	483.3	466.4	446.0	420.3
25°	550.9	550.9	546.8	523.5	514.2	512.4	511.9	497.9	482.7	462.3	437.2
27.5°	555.0	555.0	552.1	529.3	525.8	525.3	524.7	518.3	506.0	482.1	457.1
30°	565.5	566.1	563.7	541.0	538.7	545.1	546.2	542.7	527.6	497.9	477.5
32.5°	591.7	586.5	580.1	549.2	553.2	561.4	562.0	555.0	538.7	514.8	501.9
35°	657.6	626.7	597.5	556.2	557.9	566.1	567.2	566.6	556.7	536.3	529.9
37.5°	718.8	675.1	633.7	572.5	566.6	575.4	577.7	587.6	580.1	566.1	567.8
40°	754.4	737.5	708.3	617.4	584.1	597.5	599.9	615.0	612.1	606.3	617.4
42.5°	864.0	865.1	833.7	684.4	616.2	637.8	640.7	652.9	657.0	659.9	686.7
45°	991.1	995.1	987.6	805.1	676.8	683.8	687.9	704.2	719.4	738.0	787.0
47.5°	1143.8	1140.3	1112.3	952.6	782.3	743.3	746.2	777.7	803.9	844.7	914.7
50°	1279.0	1287.8	1234.7	1090.2	931.0	837.1	834.2	865.1	912.4	969.5	1057.5
52.5°	1415.5	1402.6	1330.9	1226.6	1107.1	964.8	956.1	973.0	1039.4	1107.1	1197.4
55°	1451.6	1452.8	1428.3	1375.8	1254.0	1119.9	1105.3	1104.2	1186.9	1233.0	1344.3
57.5°	1522.7	1525.6	1531.5	1542.0	1484.2	1275.0	1259.8	1243.5	1323.9	1350.7	1491.8
60°	1595.0	1598.5	1634.1	1690.6	1652.1	1442.3	1426.0	1387.5	1432.4	1468.5	1646.9
62.5°	1585.7	1610.2	1713.4	1825.9	1821.2	1625.9	1605.5	1512.8	1541.4	1572.9	1789.1
65°	1431.8	1458.0	1690.0	1863.2	1990.9	1807.2	1774.0	1642.2	1644.0	1681.9	1926.1
67.5°	1294.2	1322.8	1544.3	1847.4	2102.8	1969.9	1935.5	1772.2	1744.8	1807.8	1999.6
70°	1214.9	1243.5	1428.3	1798.5	2134.3	2150.0	2120.3	1920.9	1864.9	1922.6	1917.4
72.5°	950.8	995.7	1280.2	1705.2	2168.1	2343.0	2319.6	2109.2	1967.0	1802.6	1459.8
75°	378.9	420.3	799.3	1372.3	2125.5	2509.1	2491.0	2193.7	1820.6	1287.2	747.4
77.5°	114.3	122.4	222.1	678.6	1558.3	2224.6	2218.8	1844.5	1288.4	597.5	204.0
80°	37.9	42.0	68.2	187.1	711.2	1389.8	1416.0	1175.3	585.3	137.0	41.4
82.5°	15.7	17.5	34.4	75.2	251.8	598.7	590.0	526.4	204.0	85.1	15.2
85°	4.1	5.2	15.7	43.1	92.1	206.4	216.9	176.6	115.4	70.5	4.7
87.5°	0.0	0.0	7.6	17.5	41.4	62.4	65.3	53.6	65.3	53.1	2.3
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°	344.0	344.0	344.0	344.0	344.0	344.0	344.0	344.0	344.0	344.0	344.0
2.5°	342.8	339.9	334.6	331.1	326.5	325.3	323.0	320.1	319.5	316.6	317.1
5°	337.0	332.3	323.0	316.6	309.0	306.6	302.6	299.6	297.3	293.2	293.8
7.5°	335.8	328.8	316.0	303.7	291.5	282.7	270.5	260.6	252.4	243.7	245.4
10°	339.9	331.1	313.1	296.2	274.0	246.0	214.0	193.0	182.5	172.0	173.1
12.5°	348.0	337.5	314.2	288.6	243.7	195.9	151.6	123.0	115.4	110.8	111.3
15°	360.3	347.5	317.7	274.0	202.9	141.7	100.9	88.6	91.5	93.3	93.3
17.5°	373.1	358.5	320.6	247.8	156.8	99.1	82.2	81.0	85.1	89.2	89.2
20°	388.8	370.2	321.2	214.5	113.1	80.5	77.5	77.5	80.5	85.1	85.1
22.5°	404.0	383.0	316.0	176.6	86.3	74.6	74.6	74.6	76.4	81.0	81.6
25°	422.1	398.8	304.9	136.4	74.0	71.1	71.1	71.7	72.9	77.0	77.5
27.5°	441.3	415.1	286.2	99.7	67.6	67.0	67.6	68.2	68.8	72.9	74.0
30°	463.5	433.1	262.3	74.6	61.8	61.8	63.5	64.7	64.7	68.2	69.4
32.5°	489.1	457.1	233.8	61.8	56.0	55.4	58.3	60.0	60.0	63.0	64.1
35°	521.2	481.5	199.4	54.8	51.3	50.1	51.3	54.2	55.4	57.7	58.3
37.5°	563.7	510.7	162.6	50.7	47.8	45.5	45.5	46.1	48.4	50.7	51.3
40°	618.0	542.7	126.5	47.8	44.3	42.0	40.2	39.6	39.1	40.8	42.0
42.5°	686.2	578.9	94.4	44.9	41.4	37.9	35.6	33.2	30.3	29.7	30.3
45°	773.6	623.2	70.0	42.6	39.6	34.4	30.3	26.2	21.0	19.2	19.8
47.5°	876.8	669.3	54.8	40.2	38.5	30.3	25.1	18.1	12.8	11.7	12.2
50°	986.4	713.6	46.6	37.3	36.1	26.2	18.1	11.1	7.6	7.6	8.2
52.5°	1079.7	738.6	42.6	35.0	32.6	21.6	11.7	6.4	4.7	4.7	5.2
55°	1170.0	752.0	39.6	32.6	28.0	15.2	6.4	4.1	2.9	2.9	2.9
57.5°	1263.3	757.9	36.1	29.7	22.2	9.3	3.5	2.3	1.7	1.7	1.7
60°	1346.1	746.8	30.9	24.5	14.6	4.7	1.7	1.7	1.2	0.6	0.6
62.5°	1415.5	725.8	21.6	17.5	8.7	2.3	1.2	0.6	0.0	0.0	0.0
65°	1458.0	692.0	14.0	11.7	5.2	1.7	0.6	0.0	0.0	0.0	0.0
67.5°	1445.8	628.4	8.7	7.6	2.3	1.2	0.6	0.0	0.0	0.0	0.0
70°	1304.7	515.3	6.4	4.7	1.7	0.6	0.0	0.0	0.0	0.0	0.0
72.5°	940.3	348.6	4.7	2.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	452.4	124.2	2.9	2.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	110.8	27.4	1.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.5	5.2	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.2	2.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.6	0.0	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)