

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: P397747

Luminaire Tested: **ARCH-S-PA1-40-722-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-40-722-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3218 lumens
Efficiency: N/A
Efficacy: 80.5 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 (A_{in}): 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

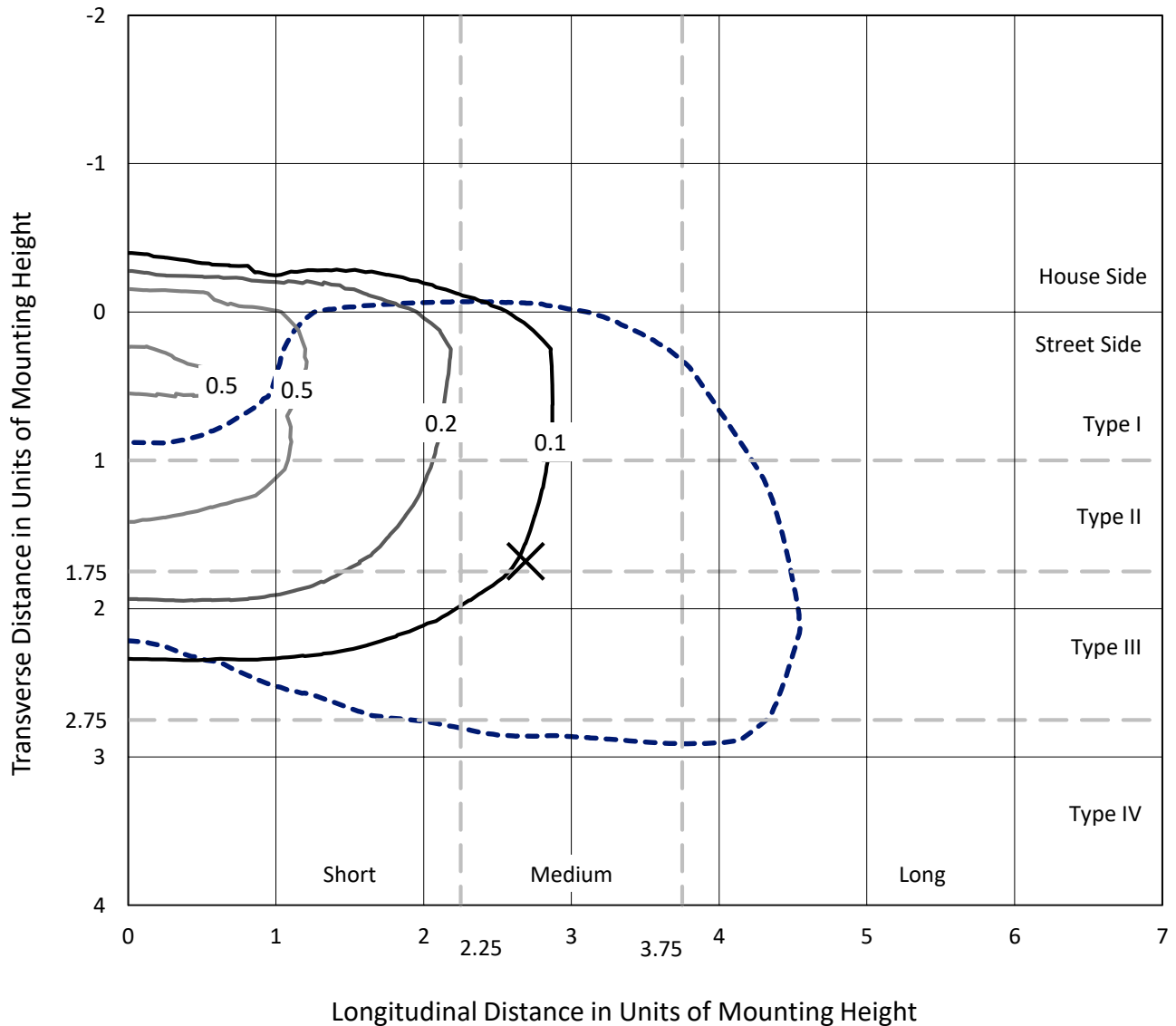


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

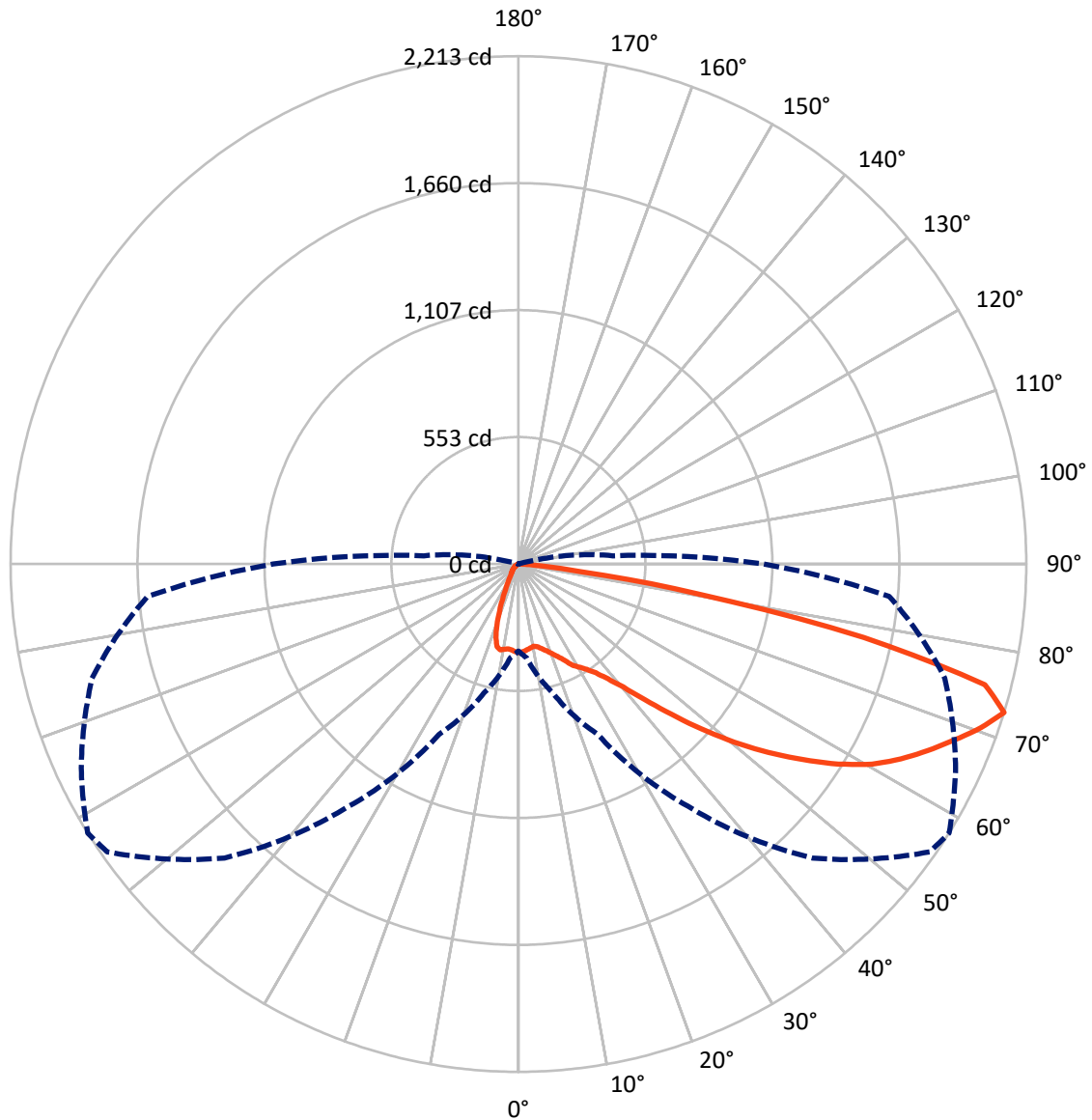


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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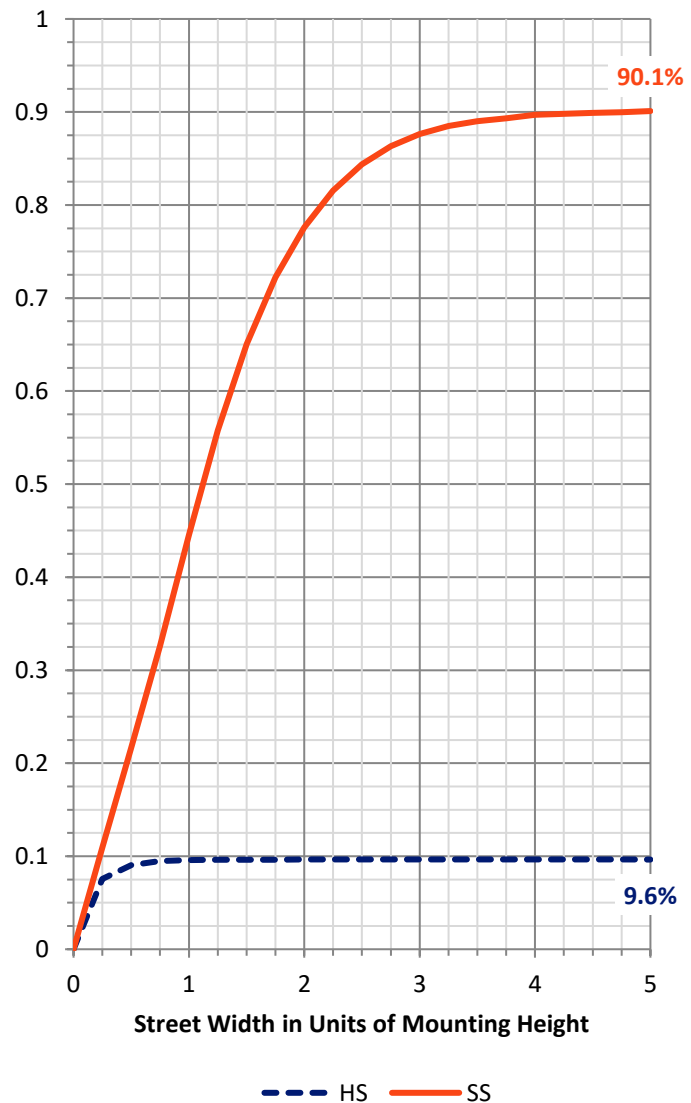
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	312.9	0.0	312.9
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	2905.1	0.0	2905.1
	% Fixture	90.3	0.0	90.3
Total	Lumens	3218.0	0.0	3218.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.4	1.1
10°-20°	92.3	2.9
20°-30°	145.0	4.5
30°-40°	250.1	7.8
40°-50°	475.8	14.8
50°-60°	753.5	23.4
60°-70°	879.2	27.3
70°-80°	550.7	17.1
80°-90°	36.1	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°	3218.0	100.0
0°-180°	3218.0	100.0



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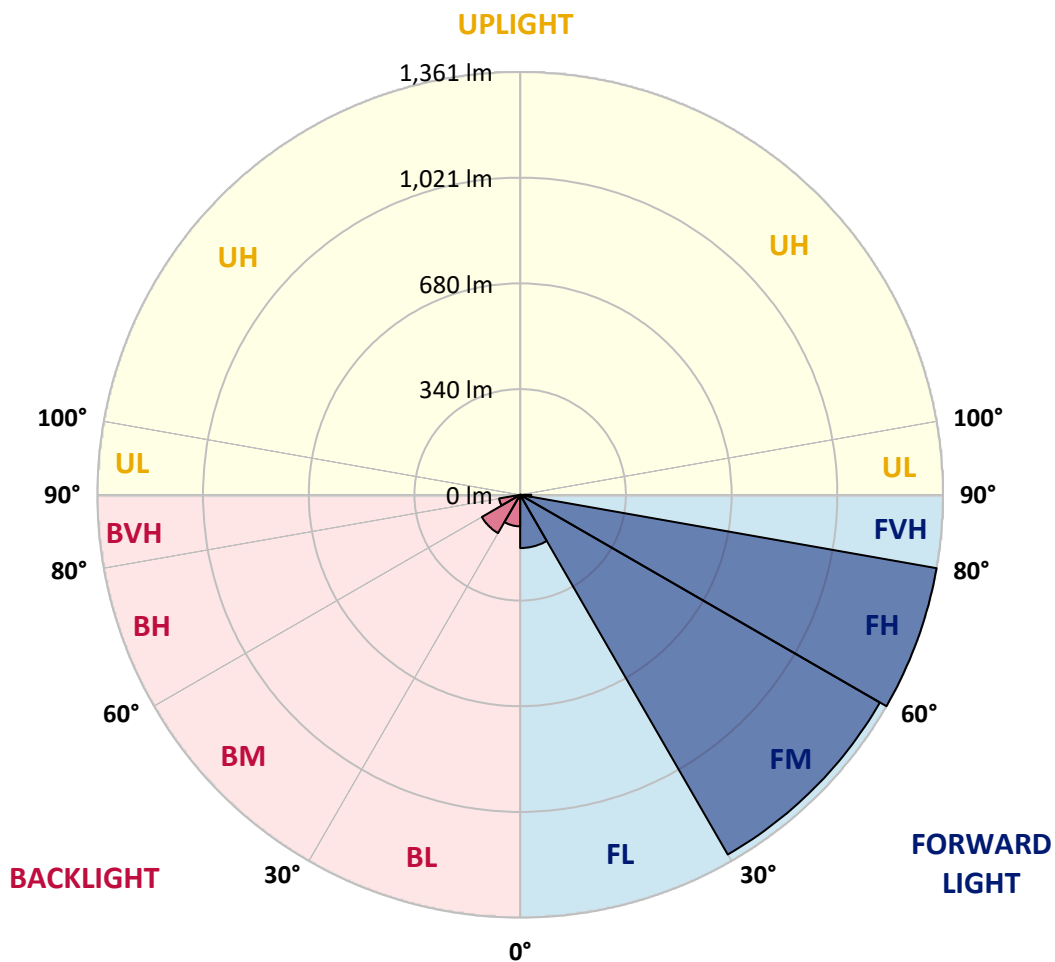
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	171.4	5.3			
FM	(30°-60°)	1336.9	41.5			
FH	(60°-80°)	1361.0	42.3			G1/1800
FVH	(80°-90°)	35.8	1.1			G1/100
BL	(0°-30°)	101.3	3.1	B0/110		
BM	(30°-60°)	142.4	4.4	B0/220		
BH	(60°-80°)	68.9	2.1	B0/110		G0/110
BVH	(80°-90°)	0.4	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°	45°	55°	58°	65°	75°	85°
0°	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1
2.5°	384.4	382.7	382.1	381.5	382.1	382.7	381.0	382.7	381.5	382.1	383.3
5°	370.6	368.9	368.3	368.9	370.6	373.5	374.6	376.4	376.4	378.1	378.7
7.5°	355.1	353.9	353.3	354.5	357.9	364.3	367.7	370.0	372.3	375.8	379.2
10°	346.4	345.9	345.3	347.0	350.5	356.2	360.8	364.3	372.9	382.7	389.0
12.5°	340.7	340.7	341.8	345.3	349.9	354.5	365.4	370.0	383.3	398.2	406.9
15°	336.1	336.1	337.8	344.1	350.5	361.4	377.5	382.7	398.2	416.6	428.1
17.5°	332.6	333.8	334.9	341.3	353.3	371.8	390.7	398.2	417.2	437.4	450.0
20°	333.2	334.3	334.9	341.3	358.5	383.8	408.0	416.6	438.5	459.8	472.5
22.5°	336.6	338.4	339.0	347.6	367.7	396.5	427.6	437.4	461.0	483.4	493.2
25°	351.0	352.2	348.7	356.2	381.0	416.1	452.9	463.3	486.8	507.6	515.6
27.5°	400.0	401.1	382.1	373.5	391.3	432.2	484.0	498.4	527.7	541.5	542.7
30°	505.8	507.0	469.6	428.7	416.1	446.0	501.2	521.4	559.4	574.9	568.0
32.5°	642.2	641.1	589.9	529.4	474.8	470.2	526.0	547.3	588.7	603.7	598.5
35°	779.2	780.9	737.2	646.3	568.0	515.6	557.6	582.4	632.4	653.7	644.5
37.5°	873.0	884.5	865.5	767.1	682.5	599.6	608.8	635.3	698.0	726.8	707.3
40°	1005.3	1002.5	956.4	883.9	809.1	723.9	691.7	704.4	776.3	814.9	784.4
42.5°	1183.2	1177.4	1099.1	1028.4	944.9	875.3	809.7	807.4	866.1	911.0	866.7
45°	1344.3	1335.7	1282.1	1213.7	1122.2	1042.2	953.6	933.4	974.3	1012.3	960.5
47.5°	1472.6	1458.2	1420.3	1384.0	1361.6	1237.3	1104.3	1073.8	1094.5	1122.7	1049.7
50°	1624.6	1584.8	1529.6	1507.7	1554.3	1458.2	1249.3	1220.0	1218.8	1235.0	1141.7
52.5°	1693.6	1621.7	1590.6	1609.0	1691.3	1663.7	1405.9	1363.9	1347.2	1348.9	1227.5
55°	1610.2	1602.1	1618.8	1676.3	1784.0	1767.8	1556.1	1504.3	1479.5	1448.5	1309.8
57.5°	1515.2	1540.0	1606.1	1716.1	1901.4	1876.6	1704.0	1645.3	1599.8	1528.4	1401.3
60°	1427.7	1453.1	1562.4	1725.3	1965.8	1981.3	1827.1	1771.3	1704.0	1610.2	1502.0
62.5°	1294.8	1314.4	1468.0	1712.0	1937.6	2042.3	1912.9	1870.9	1808.1	1687.9	1617.6
65°	1145.2	1157.8	1309.8	1606.1	1882.4	2035.4	1983.6	1960.1	1899.1	1769.0	1732.2
67.5°	981.2	996.1	1122.7	1415.7	1774.2	2003.2	2050.4	2048.1	1978.5	1858.8	1815.0
70°	792.4	793.6	898.3	1174.0	1585.4	1938.8	2133.3	2138.4	2054.4	1926.1	1818.5
72.5°	379.2	410.3	582.4	819.5	1288.5	1812.2	2187.4	2213.3	2102.2	1923.8	1622.3
75°	86.9	89.8	169.8	389.6	755.6	1390.9	2052.1	2100.5	1985.9	1663.7	1142.9
77.5°	31.7	33.4	47.8	113.9	290.6	718.8	1468.6	1539.4	1468.0	1075.6	540.4
80°	21.3	20.7	24.7	50.6	133.5	203.7	751.0	793.0	723.9	367.1	129.5
82.5°	10.9	11.5	17.3	28.2	89.8	70.8	250.9	272.8	224.4	73.7	24.2
85°	5.2	5.2	9.8	17.8	38.0	24.7	55.8	67.3	60.4	32.2	8.1
87.5°	5.2	5.2	9.2	11.5	19.6	10.4	13.8	17.3	16.1	17.3	2.9
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°	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1	386.1
2.5°	383.3	382.7	382.1	383.3	382.7	383.8	383.8	385.0	385.0	383.8	383.3
5°	378.1	376.9	375.8	375.8	375.2	376.4	379.8	382.7	383.3	381.5	381.0
7.5°	378.7	378.7	377.5	375.2	371.2	371.2	371.2	374.6	376.4	375.2	374.6
10°	389.0	389.6	386.7	381.5	374.6	368.3	356.2	338.4	321.7	317.1	315.4
12.5°	406.9	407.4	401.7	392.5	378.1	340.7	294.6	252.1	219.3	210.0	208.3
15°	428.1	428.7	418.4	403.4	359.7	272.8	204.3	156.0	127.2	120.3	119.7
17.5°	450.0	448.9	433.3	404.6	305.0	193.4	124.3	99.6	92.1	90.3	90.9
20°	471.3	467.9	446.6	383.3	234.8	126.6	90.9	85.2	83.4	82.3	82.3
22.5°	490.9	484.0	457.5	341.3	164.6	90.9	81.1	80.0	77.7	76.0	75.4
25°	510.4	500.7	464.4	286.6	110.5	79.4	76.5	74.2	71.4	69.1	68.5
27.5°	534.0	520.2	461.0	217.5	82.9	73.7	71.4	67.9	63.9	60.4	59.3
30°	556.5	540.9	441.4	150.2	70.8	67.9	64.5	59.3	54.1	50.1	48.9
32.5°	584.7	566.8	406.3	98.4	61.6	59.3	55.8	49.5	42.6	38.0	36.8
35°	625.0	604.8	361.4	69.1	54.1	50.1	45.5	38.6	31.1	27.6	27.0
37.5°	681.4	654.3	305.0	55.8	47.8	42.0	35.1	28.2	23.0	20.1	19.6
40°	750.4	709.0	242.3	49.5	42.6	35.1	26.5	20.1	16.7	14.4	14.4
42.5°	825.2	760.2	178.4	45.5	37.4	28.8	19.6	14.4	12.1	10.9	10.4
45°	902.3	805.7	120.3	42.0	32.8	21.9	13.8	9.8	8.1	8.1	7.5
47.5°	982.3	836.2	77.7	38.0	27.6	16.1	9.2	6.9	5.8	5.8	5.8
50°	1061.7	852.3	55.2	34.5	22.4	10.9	6.9	5.2	4.6	4.6	4.6
52.5°	1119.3	841.9	44.3	29.9	17.3	8.1	5.2	4.0	3.5	3.5	3.5
55°	1169.4	824.1	38.6	25.9	12.7	5.8	4.0	3.5	2.9	2.9	2.9
57.5°	1220.6	801.1	34.5	21.9	9.2	4.0	2.9	2.3	2.3	2.3	2.3
60°	1267.2	761.9	29.9	17.3	6.3	2.9	2.3	1.7	1.7	1.7	1.7
62.5°	1312.6	728.5	25.9	13.2	4.6	2.3	1.2	1.2	0.6	0.6	0.6
65°	1338.5	683.7	20.7	8.6	2.9	1.7	0.6	0.6	0.0	0.0	0.0
67.5°	1330.5	630.1	14.4	5.2	1.7	1.2	0.6	0.0	0.0	0.0	0.0
70°	1274.7	558.2	8.6	2.9	1.7	1.2	0.6	0.0	0.0	0.0	0.0
72.5°	1067.5	413.2	5.2	2.3	1.2	0.6	0.0	0.0	0.0	0.0	0.0
75°	713.0	189.9	2.9	1.7	0.6	0.6	0.0	0.0	0.0	0.0	0.0
77.5°	326.3	57.0	1.7	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	65.6	15.0	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.8	2.9	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°	1.2	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)