

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: P397684

Luminaire Tested: **ARCH-S-PA1-30-727-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397684
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-PA1-30-727-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 375mA 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: 2837 lumens
Efficiency: N/A
Efficacy: 91.5 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): 31
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

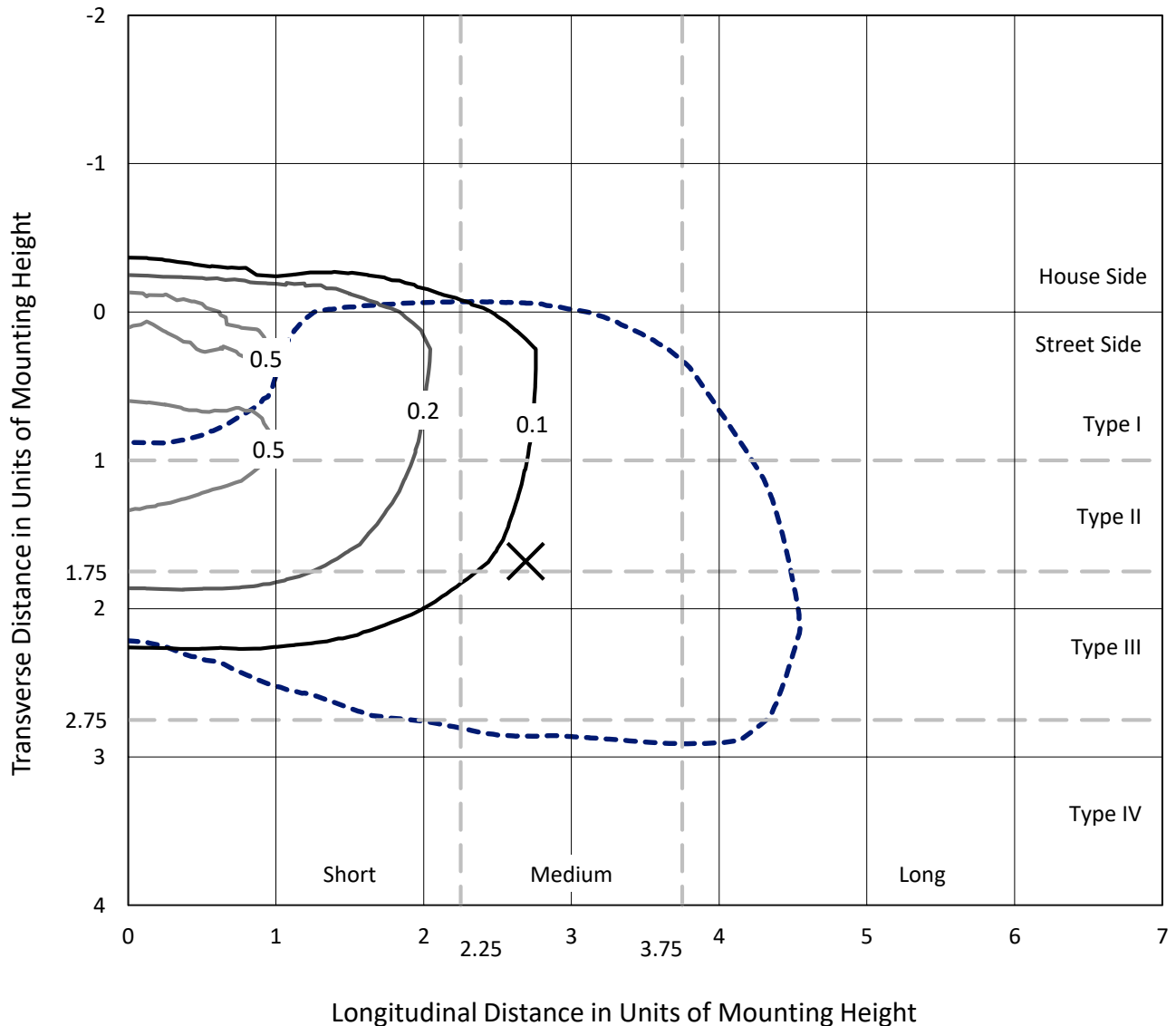


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

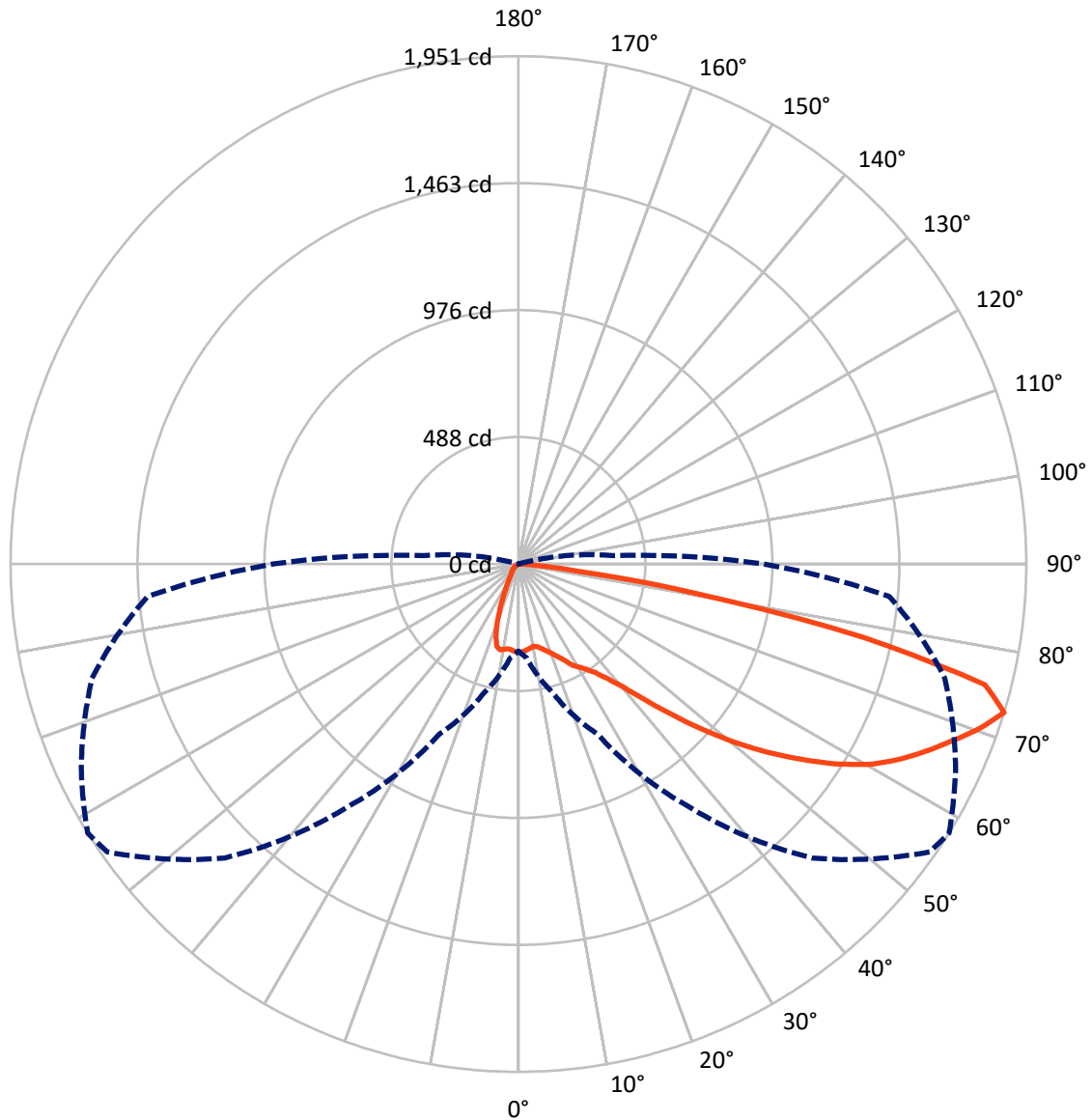


Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Medium - Non-Cutoff

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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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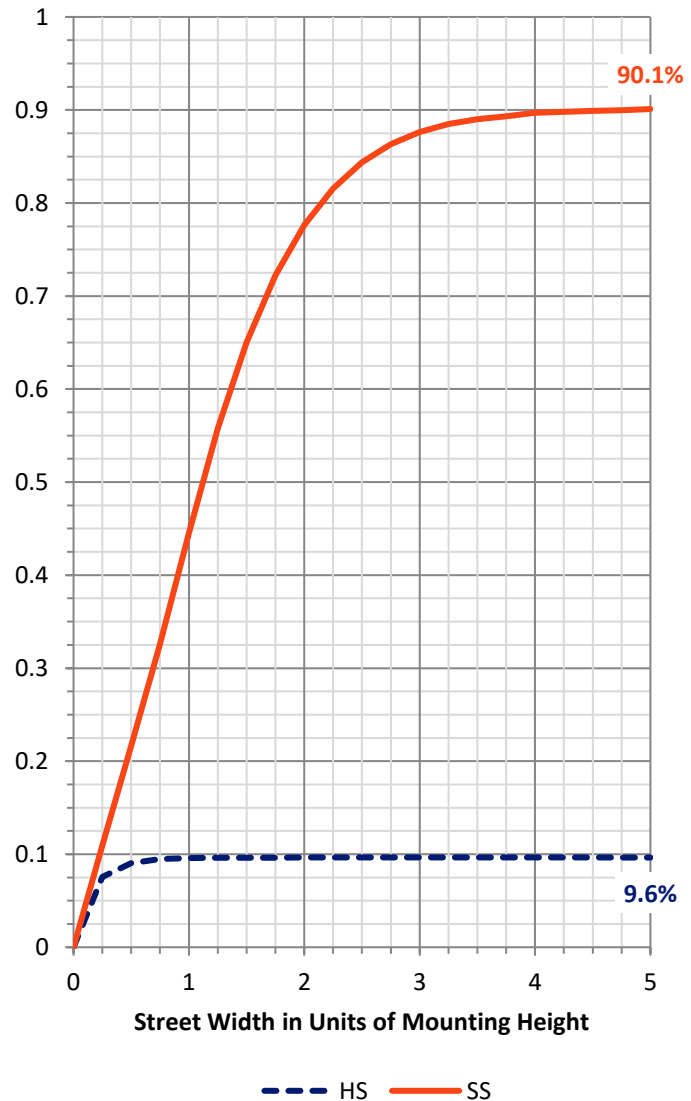
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	275.9	0.0	275.9
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	2561.1	0.0	2561.1
	% Fixture	90.3	0.0	90.3
Total	Lumens	2837.0	0.0	2837.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.2	1.1
10°-20°	81.4	2.9
20°-30°	127.8	4.5
30°-40°	220.5	7.8
40°-50°	419.4	14.8
50°-60°	664.2	23.4
60°-70°	775.1	27.3
70°-80°	485.4	17.1
80°-90°	31.9	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°	2837.0	100.0
0°-180°	2837.0	100.0



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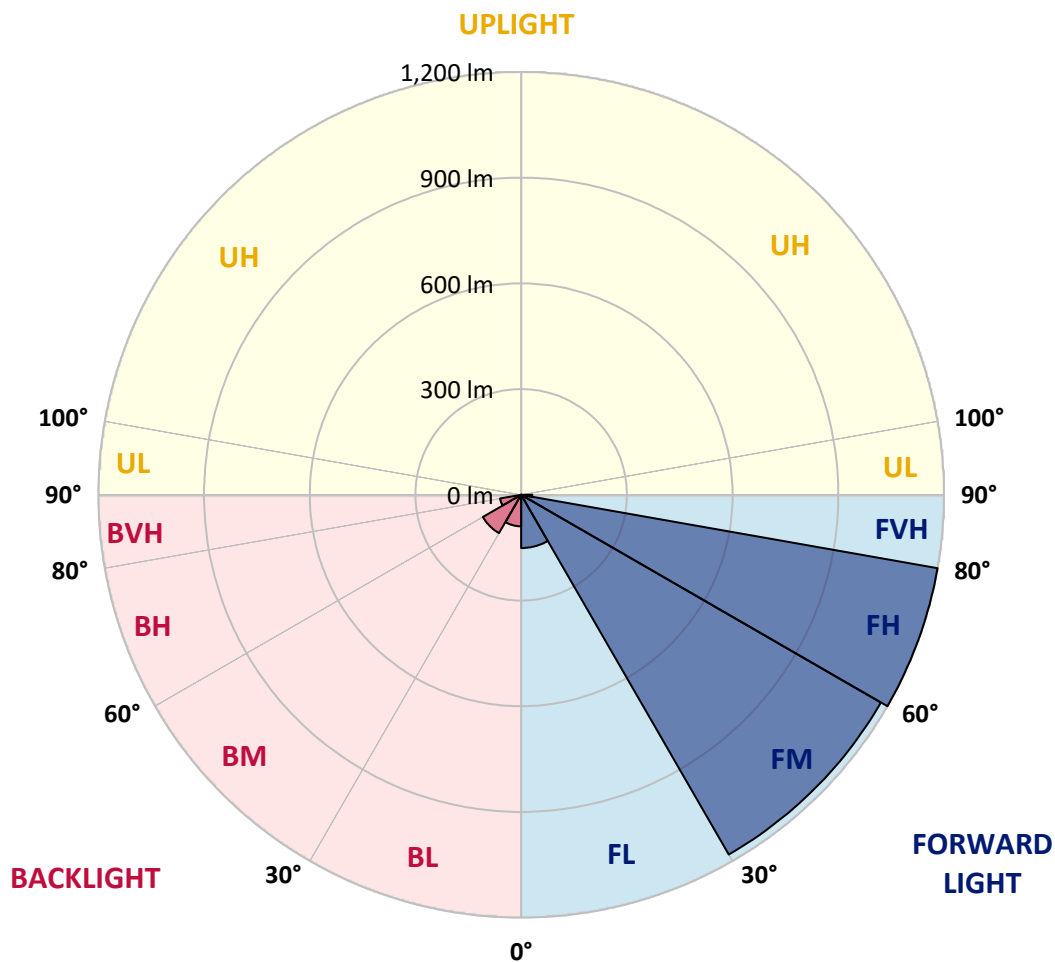
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	151.1	5.3			
FM	(30°-60°)	1178.6	41.5			
FH	(60°-80°)	1199.8	42.3			G1/1800
FVH	(80°-90°)	31.6	1.1			G1/100
BL	(0°-30°)	89.3	3.1	B0/110		
BM	(30°-60°)	125.5	4.4	B0/220		
BH	(60°-80°)	60.7	2.1	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	340.4	340.4	340.4	340.4	340.4	340.4	340.4	340.4	340.4	340.4	340.4
2.5°	338.9	337.4	336.9	336.4	336.9	337.4	335.9	337.4	336.4	336.9	337.9
5°	326.7	325.2	324.7	325.2	326.7	329.3	330.3	331.8	331.8	333.3	333.8
7.5°	313.0	312.0	311.5	312.5	315.6	321.1	324.2	326.2	328.2	331.3	334.3
10°	305.4	304.9	304.4	305.9	309.0	314.0	318.1	321.1	328.8	337.4	343.0
12.5°	300.3	300.3	301.4	304.4	308.5	312.5	322.2	326.2	337.9	351.1	358.7
15°	296.3	296.3	297.8	303.4	309.0	318.6	332.8	337.4	351.1	367.3	377.5
17.5°	293.2	294.3	295.3	300.9	311.5	327.7	344.5	351.1	367.8	385.6	396.7
20°	293.7	294.8	295.3	300.9	316.1	338.4	359.7	367.3	386.6	405.4	416.5
22.5°	296.8	298.3	298.8	306.4	324.2	349.6	377.0	385.6	406.4	426.2	434.8
25°	309.5	310.5	307.4	314.0	335.9	366.8	399.3	408.4	429.2	447.5	454.6
27.5°	352.6	353.6	336.9	329.3	345.0	381.0	426.7	439.4	465.2	477.4	478.4
30°	445.9	447.0	414.0	378.0	366.8	393.2	441.9	459.6	493.1	506.8	500.7
32.5°	566.2	565.2	520.0	466.7	418.6	414.5	463.7	482.5	519.0	532.2	527.6
35°	686.9	688.5	649.9	569.7	500.7	454.6	491.6	513.4	557.6	576.3	568.2
37.5°	769.6	779.8	763.0	676.3	601.7	528.6	536.8	560.1	615.4	640.8	623.5
40°	886.3	883.8	843.2	779.3	713.3	638.2	609.8	621.0	684.4	718.4	691.5
42.5°	1043.1	1038.0	969.0	906.6	833.0	771.7	713.8	711.8	763.5	803.1	764.0
45°	1185.1	1177.5	1130.3	1070.0	989.3	918.8	840.7	822.9	858.9	892.4	846.7
47.5°	1298.3	1285.6	1252.1	1220.1	1200.4	1090.8	973.6	946.7	965.0	989.8	925.4
50°	1432.2	1397.2	1348.5	1329.2	1370.3	1285.6	1101.4	1075.6	1074.5	1088.7	1006.6
52.5°	1493.1	1429.7	1402.3	1418.5	1491.1	1466.7	1239.4	1202.4	1187.7	1189.2	1082.1
55°	1419.5	1412.4	1427.1	1477.9	1572.7	1558.5	1371.8	1326.2	1304.4	1277.0	1154.7
57.5°	1335.8	1357.6	1416.0	1512.9	1676.2	1654.4	1502.2	1450.5	1410.4	1347.5	1235.4
60°	1258.7	1281.0	1377.4	1521.0	1733.1	1746.8	1610.8	1561.6	1502.2	1419.5	1324.1
62.5°	1141.5	1158.8	1294.2	1509.3	1708.2	1800.5	1686.4	1649.4	1594.1	1488.0	1426.1
65°	1009.6	1020.8	1154.7	1416.0	1659.5	1794.4	1748.8	1728.0	1674.2	1559.6	1527.1
67.5°	865.0	878.2	989.8	1248.0	1564.1	1766.0	1807.6	1805.6	1744.2	1638.7	1600.1
70°	698.6	699.6	792.0	1035.0	1397.7	1709.2	1880.7	1885.3	1811.2	1698.1	1603.2
72.5°	334.3	361.7	513.4	722.4	1135.9	1597.6	1928.4	1951.2	1853.3	1696.0	1430.2
75°	76.6	79.1	149.7	343.5	666.1	1226.2	1809.2	1851.8	1750.8	1466.7	1007.6
77.5°	27.9	29.4	42.1	100.5	256.2	633.7	1294.7	1357.1	1294.2	948.2	476.4
80°	18.8	18.3	21.8	44.6	117.7	179.6	662.1	699.1	638.2	323.7	114.2
82.5°	9.6	10.1	15.2	24.9	79.1	62.4	221.2	240.5	197.9	64.9	21.3
85°	4.6	4.6	8.6	15.7	33.5	21.8	49.2	59.4	53.3	28.4	7.1
87.5°	4.6	4.6	8.1	10.1	17.2	9.1	12.2	15.2	14.2	15.2	2.5
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°	340.4	340.4	340.4	340.4	340.4	340.4	340.4	340.4	340.4	340.4	340.4
2.5°	337.9	337.4	336.9	337.9	337.4	338.4	338.4	339.4	339.4	338.4	337.9
5°	333.3	332.3	331.3	331.3	330.8	331.8	334.8	337.4	337.9	336.4	335.9
7.5°	333.8	333.8	332.8	330.8	327.2	327.2	327.2	330.3	331.8	330.8	330.3
10°	343.0	343.5	340.9	336.4	330.3	324.7	314.0	298.3	283.6	279.5	278.0
12.5°	358.7	359.2	354.1	346.0	333.3	300.3	259.8	222.2	193.3	185.2	183.7
15°	377.5	378.0	368.8	355.6	317.1	240.5	180.1	137.5	112.1	106.0	105.5
17.5°	396.7	395.7	382.0	356.7	268.9	170.5	109.6	87.8	81.2	79.7	80.2
20°	415.5	412.5	393.7	337.9	207.0	111.6	80.2	75.1	73.6	72.5	72.5
22.5°	432.8	426.7	403.3	300.9	145.1	80.2	71.5	70.5	68.5	67.0	66.5
25°	450.0	441.4	409.4	252.7	97.4	70.0	67.5	65.4	62.9	60.9	60.4
27.5°	470.8	458.6	406.4	191.8	73.1	64.9	62.9	59.9	56.3	53.3	52.3
30°	490.6	476.9	389.1	132.4	62.4	59.9	56.8	52.3	47.7	44.1	43.1
32.5°	515.5	499.7	358.2	86.8	54.3	52.3	49.2	43.6	37.5	33.5	32.5
35°	551.0	533.2	318.6	60.9	47.7	44.1	40.1	34.0	27.4	24.4	23.8
37.5°	600.7	576.8	268.9	49.2	42.1	37.0	30.9	24.9	20.3	17.8	17.2
40°	661.6	625.0	213.6	43.6	37.5	30.9	23.3	17.8	14.7	12.7	12.7
42.5°	727.5	670.2	157.3	40.1	33.0	25.4	17.2	12.7	10.7	9.6	9.1
45°	795.5	710.3	106.0	37.0	28.9	19.3	12.2	8.6	7.1	7.1	6.6
47.5°	866.0	737.2	68.5	33.5	24.4	14.2	8.1	6.1	5.1	5.1	5.1
50°	936.0	751.4	48.7	30.4	19.8	9.6	6.1	4.6	4.1	4.1	4.1
52.5°	986.8	742.2	39.1	26.4	15.2	7.1	4.6	3.6	3.0	3.0	3.0
55°	1030.9	726.5	34.0	22.8	11.2	5.1	3.6	3.0	2.5	2.5	2.5
57.5°	1076.1	706.2	30.4	19.3	8.1	3.6	2.5	2.0	2.0	2.0	2.0
60°	1117.2	671.7	26.4	15.2	5.6	2.5	2.0	1.5	1.5	1.5	1.5
62.5°	1157.2	642.3	22.8	11.7	4.1	2.0	1.0	1.0	0.5	0.5	0.5
65°	1180.1	602.7	18.3	7.6	2.5	1.5	0.5	0.5	0.0	0.0	0.0
67.5°	1173.0	555.5	12.7	4.6	1.5	1.0	0.5	0.0	0.0	0.0	0.0
70°	1123.8	492.1	7.6	2.5	1.5	1.0	0.5	0.0	0.0	0.0	0.0
72.5°	941.1	364.3	4.6	2.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0
75°	628.6	167.4	2.5	1.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
77.5°	287.7	50.2	1.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	57.8	13.2	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.2	2.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.5	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)