

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: P573113

Luminaire Tested: **ARCH-S-PA2-30-830-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-30-830-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4184 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

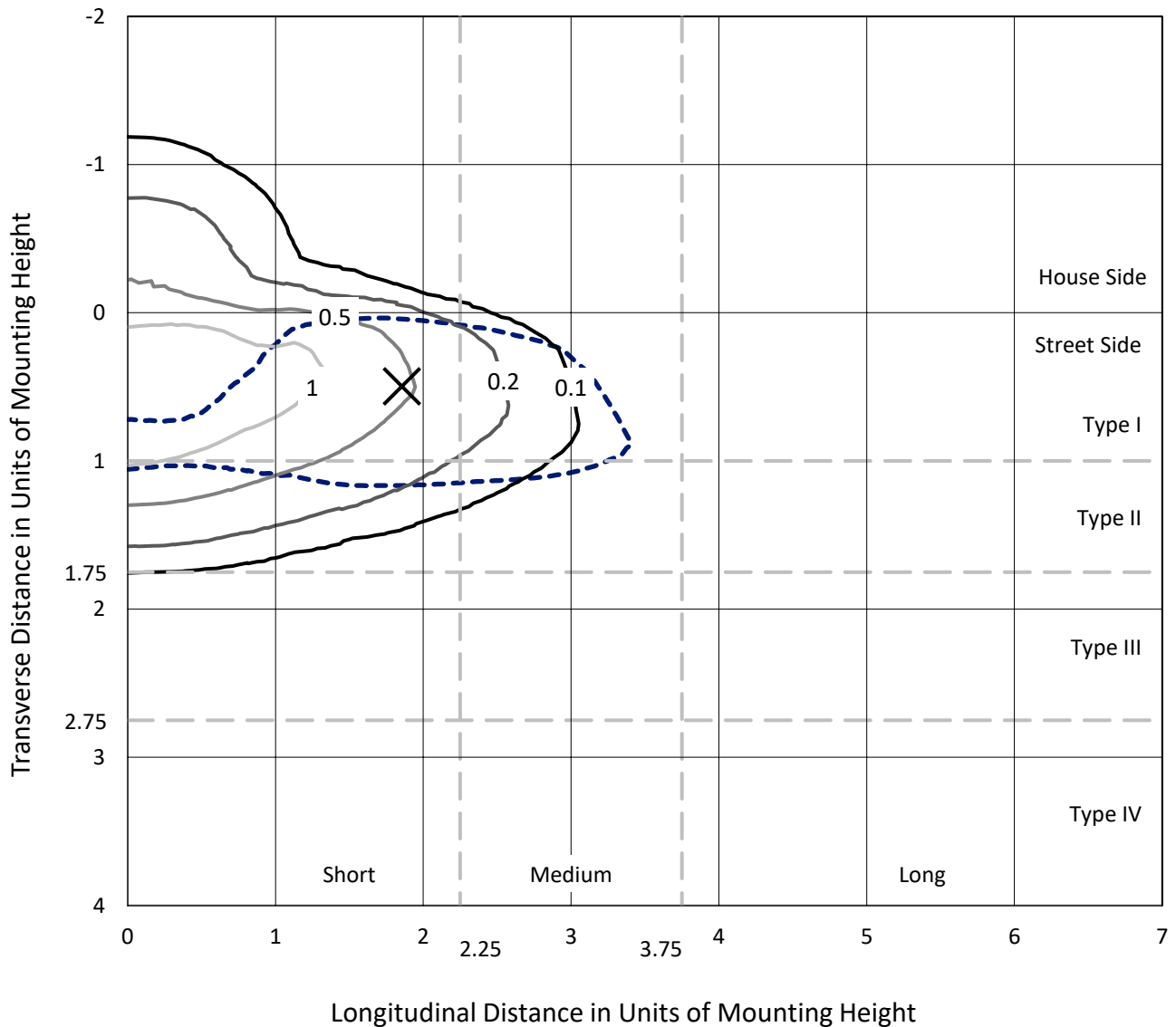
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: ARCH-S-PA2-30-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

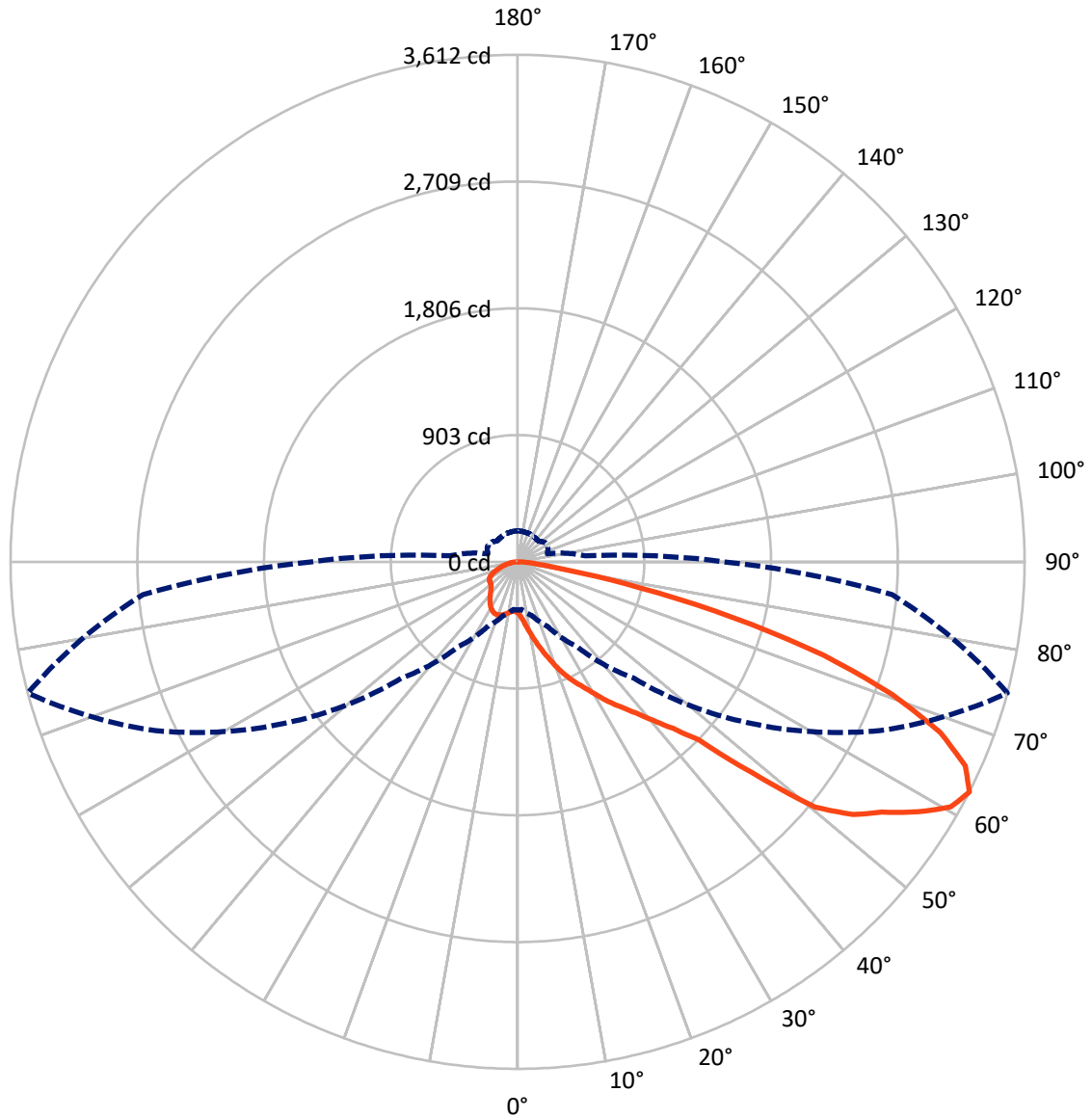
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

REPORT NUMBER: P573113
CATALOG NUMBER: ARCH-S-PA2-30-830-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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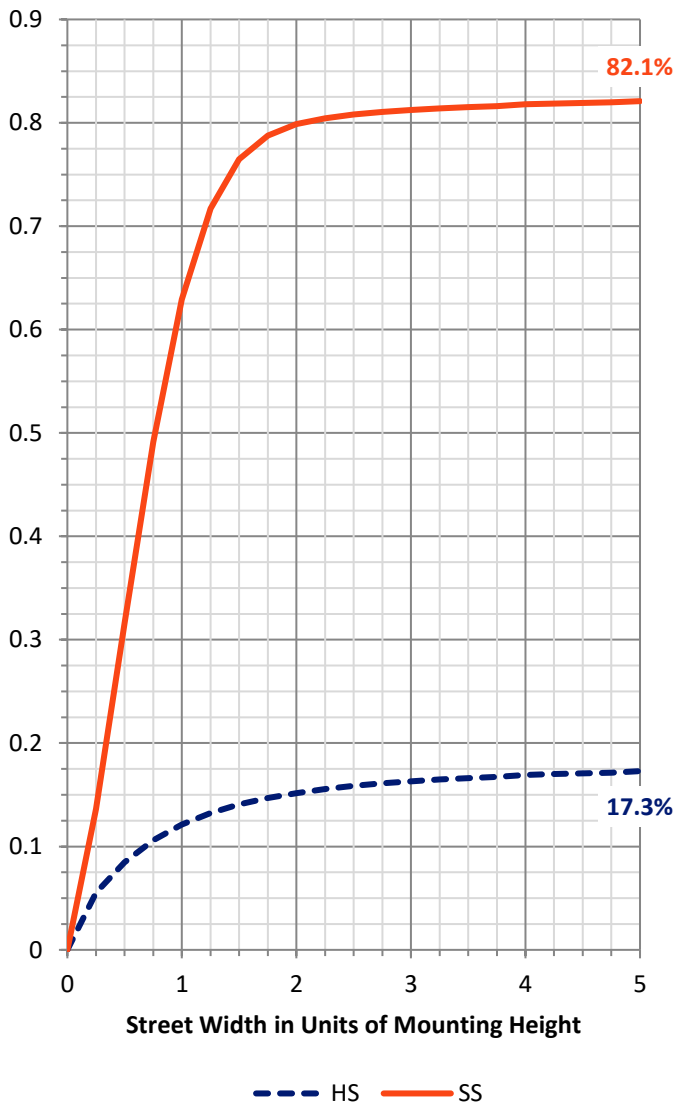
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	737.9	0.0	737.9
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	3446.1	0.0	3446.1
	% Fixture	82.4	0.0	82.4
Total	Lumens	4184.0	0.0	4184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	1.0
10°-20°	173.1	4.1
20°-30°	342.5	8.2
30°-40°	570.9	13.6
40°-50°	842.5	20.1
50°-60°	1012.7	24.2
60°-70°	787.1	18.8
70°-80°	348.2	8.3
80°-90°	63.0	1.5
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°	4184.0	100.0
0°-180°	4184.0	100.0

Coefficient of Utilization

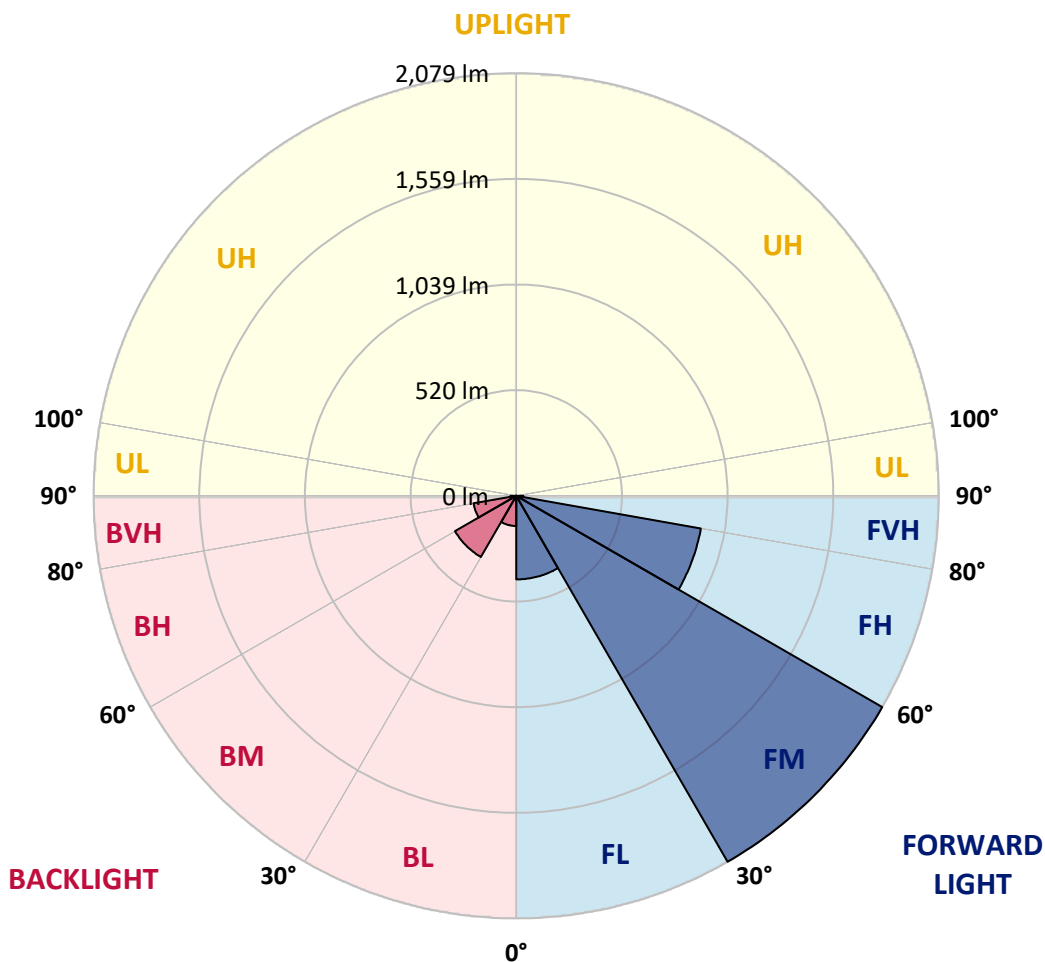


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	411.0	9.8			
FM (30°-60°)	2078.6	49.7			
FH (60°-80°)	921.8	22.0			G1/1800
FVH (80°-90°)	34.6	0.8			G1/100
BL (0°-30°)	148.5	3.5	B1/500		
BM (30°-60°)	347.6	8.3	B1/1000		
BH (60°-80°)	213.5	5.1	B1/500		G1/500
BVH (80°-90°)	28.4	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





REPORT NUMBER: P573113

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	364.7	364.7	364.7	364.7	364.7	364.7	364.7	364.7	364.7	364.7	364.7
2.5°	466.3	452.8	452.8	438.1	439.2	426.8	413.3	399.7	385.0	373.7	368.1
5°	609.7	599.6	596.2	579.2	552.1	521.7	488.9	455.0	420.0	392.9	379.4
7.5°	744.1	736.2	731.7	712.5	675.2	642.5	590.5	528.4	468.6	417.8	397.5
10°	843.5	837.8	828.8	819.7	792.6	764.4	700.1	612.0	523.9	448.3	417.8
12.5°	915.7	907.8	907.8	906.7	888.6	862.6	802.8	708.0	588.3	482.1	440.4
15°	964.3	963.1	966.5	973.3	968.8	951.8	892.0	796.0	653.8	520.5	466.3
17.5°	1000.4	995.9	1002.7	1020.7	1034.3	1027.5	977.8	880.7	726.0	562.3	494.6
20°	1039.9	1030.9	1039.9	1062.5	1079.4	1089.6	1065.9	962.0	803.9	607.5	521.7
22.5°	1115.6	1114.4	1109.9	1116.7	1128.0	1146.1	1132.5	1044.4	879.6	652.6	553.3
25°	1251.1	1238.6	1226.2	1211.5	1199.1	1204.8	1193.5	1121.2	948.5	702.3	580.4
27.5°	1402.4	1388.8	1366.2	1330.1	1296.2	1275.9	1252.2	1187.8	1015.1	747.5	606.3
30°	1541.2	1536.7	1502.9	1463.3	1404.6	1367.4	1322.2	1264.6	1095.2	797.2	633.4
32.5°	1671.1	1662.1	1628.2	1586.4	1517.5	1475.8	1413.7	1348.2	1186.7	858.1	661.7
35°	1782.9	1773.8	1734.3	1681.3	1621.4	1585.3	1514.1	1422.7	1270.3	911.2	685.4
37.5°	1867.6	1857.4	1820.1	1768.2	1715.1	1698.2	1637.2	1517.5	1365.1	977.8	714.7
40°	1915.0	1902.6	1877.7	1841.6	1797.6	1789.7	1763.7	1635.0	1484.8	1059.1	757.6
42.5°	1920.6	1909.3	1895.8	1892.4	1889.0	1895.8	1908.2	1768.2	1621.4	1167.5	820.9
45°	1871.0	1864.2	1865.3	1903.7	1956.8	2018.9	2093.4	1964.7	1805.5	1374.1	963.1
47.5°	1764.8	1761.4	1786.3	1850.6	1969.2	2110.3	2321.5	2301.1	2241.3	1707.2	1146.1
50°	1593.2	1587.5	1640.6	1742.2	1911.6	2140.8	2475.0	2697.5	2747.1	1965.8	1265.7
52.5°	1347.0	1353.8	1436.2	1575.1	1779.5	2108.1	2538.3	2860.1	2991.0	2156.6	1357.2
55°	1095.2	1085.1	1159.6	1331.2	1584.2	1988.4	2550.7	2953.8	3149.1	2332.8	1446.4
57.5°	798.3	823.1	902.2	1058.0	1332.4	1771.6	2478.4	3018.1	3361.4	2508.9	1528.8
60°	540.8	540.8	610.9	766.7	1029.8	1508.5	2285.3	2994.4	3546.6	2646.7	1546.9
62.5°	344.4	341.0	397.5	508.1	737.3	1172.0	1996.3	2845.4	3612.1	2679.4	1471.2
65°	217.9	222.4	242.8	310.5	472.0	832.2	1602.2	2548.4	3504.8	2603.7	1339.1
67.5°	175.0	176.1	186.3	214.5	290.2	534.1	1187.8	2138.6	3248.5	2412.9	1184.4
70°	154.7	156.9	159.2	169.4	198.7	337.6	780.2	1721.9	2828.4	2081.0	1018.5
72.5°	141.1	143.4	145.7	147.9	163.7	220.2	460.7	1305.3	2282.0	1598.8	776.8
75°	129.8	132.1	132.1	133.2	142.3	163.7	252.9	899.9	1588.7	994.8	484.4
77.5°	116.3	117.4	117.4	119.7	128.7	128.7	156.9	556.7	881.8	450.5	245.0
80°	98.2	100.5	100.5	103.9	112.9	99.4	105.0	284.5	365.8	185.2	109.5
82.5°	72.3	76.8	79.0	84.7	90.3	75.7	75.7	143.4	154.7	82.4	58.7
85°	39.5	40.6	58.7	63.2	66.6	45.2	50.8	71.1	76.8	36.1	29.4
87.5°	11.3	12.4	28.2	35.0	31.6	19.2	21.5	27.1	27.1	10.2	7.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	364.7	364.7	364.7	364.7	364.7	364.7	364.7	364.7	364.7	364.7
2.5°	363.6	354.5	346.6	341.0	335.3	332.0	330.8	328.6	328.6	329.7
5°	368.1	352.3	339.9	333.1	328.6	326.3	325.2	325.2	326.3	326.3
7.5°	379.4	355.7	344.4	338.7	334.2	332.0	332.0	330.8	332.0	332.0
10°	395.2	365.8	353.4	346.6	343.3	339.9	338.7	337.6	337.6	337.6
12.5°	412.1	377.1	363.6	355.7	350.0	345.5	343.3	341.0	339.9	339.9
15°	427.9	388.4	370.4	361.3	353.4	346.6	342.1	338.7	337.6	337.6
17.5°	444.9	396.3	374.9	362.4	352.3	343.3	337.6	333.1	330.8	330.8
20°	462.9	402.0	374.9	359.1	345.5	336.5	329.7	325.2	320.7	320.7
22.5°	477.6	404.2	370.4	351.2	337.6	326.3	319.5	313.9	310.5	310.5
25°	490.0	402.0	360.2	338.7	322.9	312.8	306.0	301.5	298.1	298.1
27.5°	497.9	392.9	347.8	325.2	310.5	300.3	295.8	291.3	289.1	289.1
30°	502.5	381.6	332.0	310.5	295.8	290.2	287.9	283.4	280.0	278.9
32.5°	504.7	364.7	316.2	295.8	285.7	283.4	283.4	277.8	273.2	272.1
35°	502.5	346.6	300.3	283.4	280.0	281.2	278.9	272.1	266.5	264.2
37.5°	499.1	325.2	283.4	274.4	277.8	280.0	273.2	264.2	255.2	252.9
40°	496.8	306.0	269.9	265.3	275.5	276.6	264.2	247.3	240.5	238.2
42.5°	508.1	286.8	257.4	258.6	269.9	271.0	248.4	240.5	236.0	234.9
45°	546.5	269.9	247.3	254.1	263.1	258.6	240.5	239.4	236.0	234.9
47.5°	575.9	257.4	242.8	250.7	257.4	241.6	239.4	238.2	234.9	233.7
50°	586.0	249.5	241.6	248.4	249.5	233.7	237.1	237.1	233.7	232.6
52.5°	587.1	245.0	243.9	247.3	237.1	230.3	234.9	234.9	231.5	230.3
55°	591.7	242.8	245.0	247.3	223.6	225.8	230.3	231.5	228.1	227.0
57.5°	582.6	239.4	247.3	248.4	217.9	221.3	225.8	225.8	225.8	225.8
60°	547.6	232.6	246.1	246.1	213.4	215.7	220.2	222.4	223.6	223.6
62.5°	483.3	219.0	239.4	239.4	208.9	211.1	216.8	216.8	220.2	220.2
65°	402.0	199.9	225.8	224.7	204.4	206.6	213.4	211.1	216.8	217.9
67.5°	335.3	176.1	205.5	207.8	199.9	205.5	210.0	202.1	213.4	213.4
70°	267.6	147.9	178.4	188.6	192.0	206.6	203.2	190.8	205.5	202.1
72.5°	207.8	125.3	146.8	164.9	182.9	205.5	188.6	175.0	184.0	178.4
75°	151.3	103.9	120.8	136.6	170.5	202.1	173.9	153.6	153.6	151.3
77.5°	106.1	84.7	97.1	108.4	158.1	193.1	155.8	132.1	126.5	125.3
80°	72.3	66.6	76.8	83.6	140.0	175.0	134.4	109.5	99.4	97.1
82.5°	47.4	47.4	51.9	56.5	108.4	145.7	105.0	81.3	105.0	100.5
85°	27.1	28.2	28.2	32.7	59.8	102.7	74.5	81.3	48.6	45.2
87.5°	9.0	9.0	9.0	9.0	12.4	41.8	31.6	29.4	11.3	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)