

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: P397728

Luminaire Tested: **ARCH-S-PA1-30-827-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-30-827-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3484 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 31
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

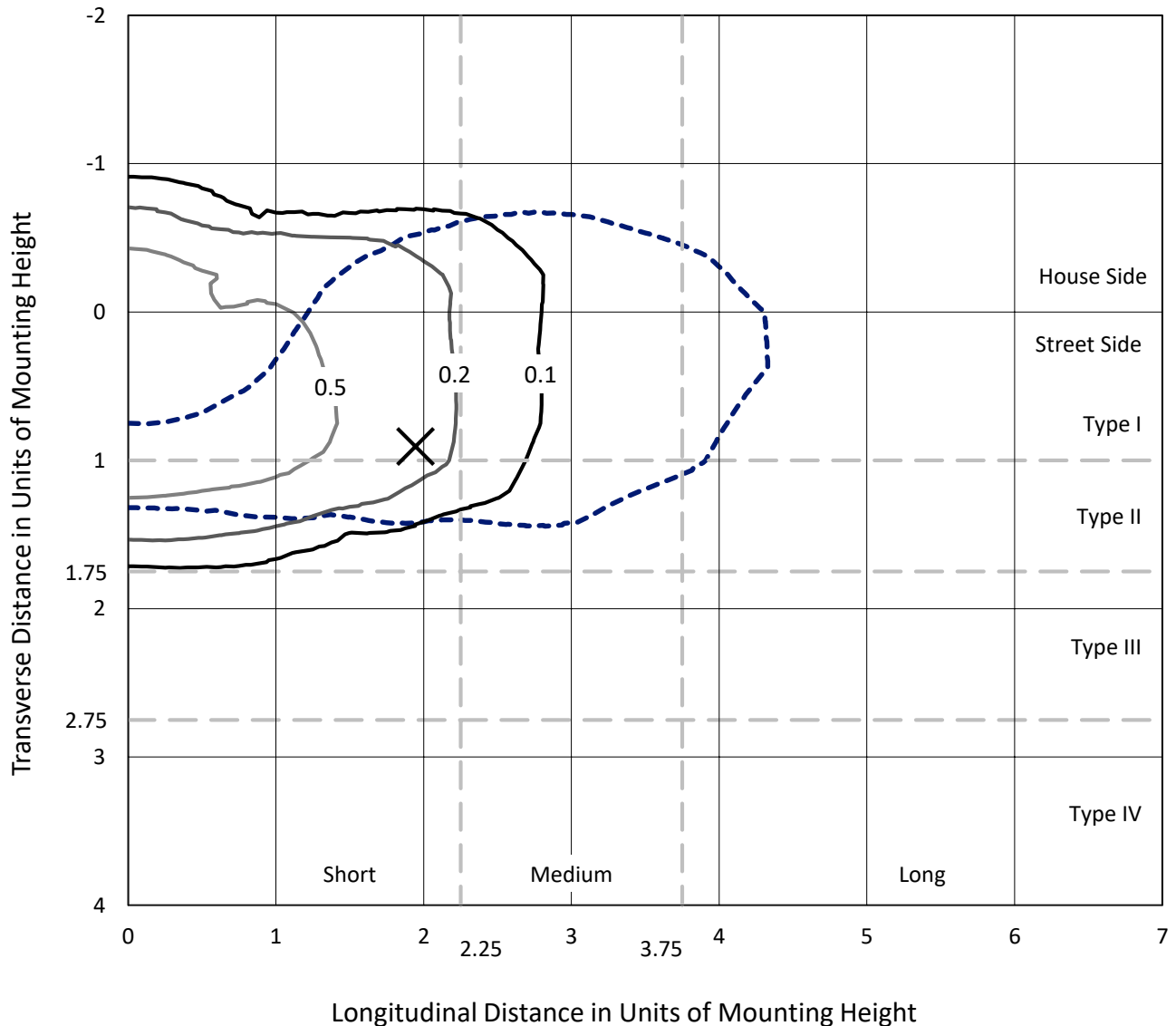


REPORT NUMBER: P397728

CATALOG NUMBER: ARCH-S-PA1-30-827-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

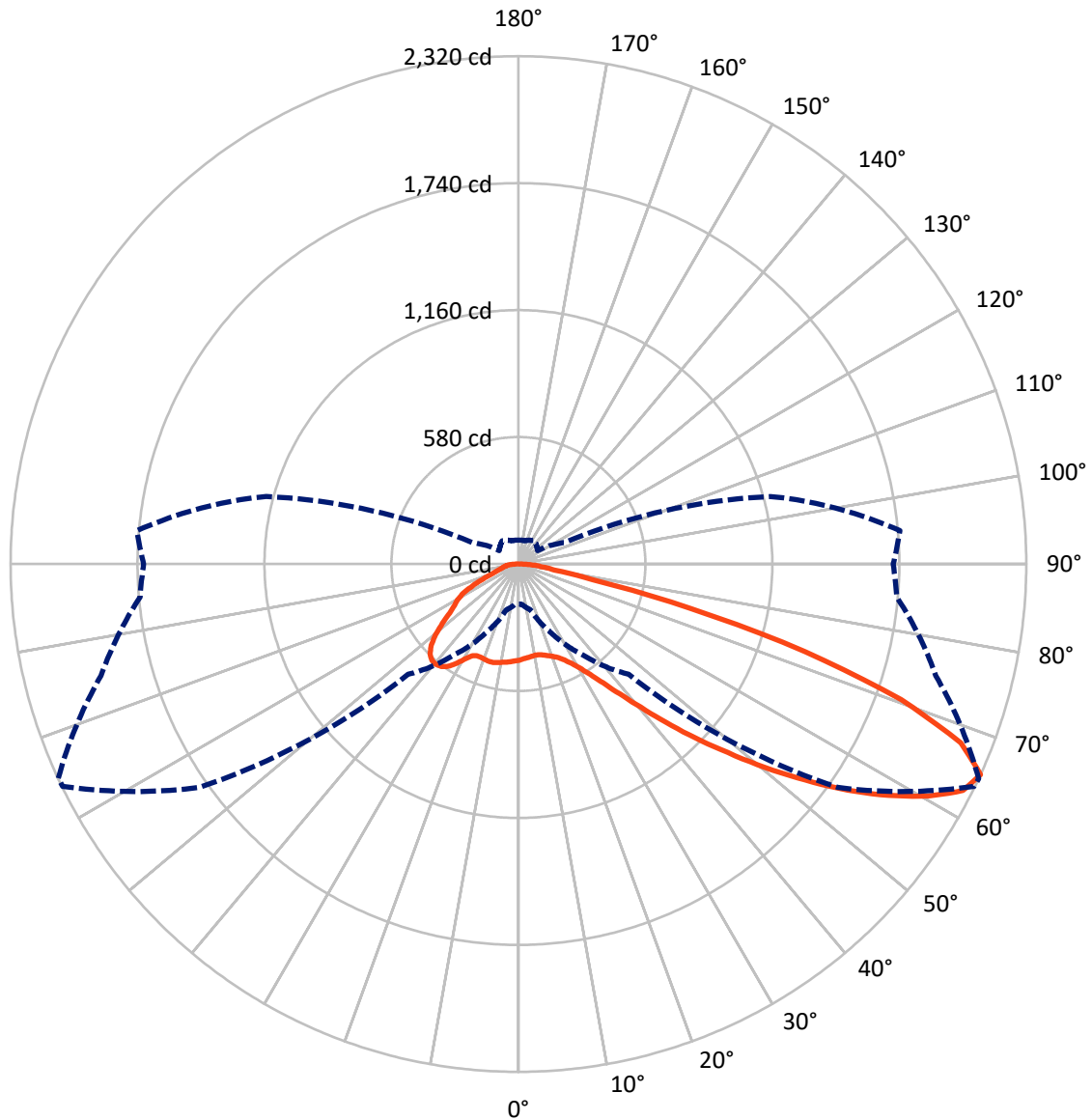
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P397728
CATALOG NUMBER: ARCH-S-PA1-30-827-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P397728

CATALOG NUMBER: ARCH-S-PA1-30-827-U-T2U

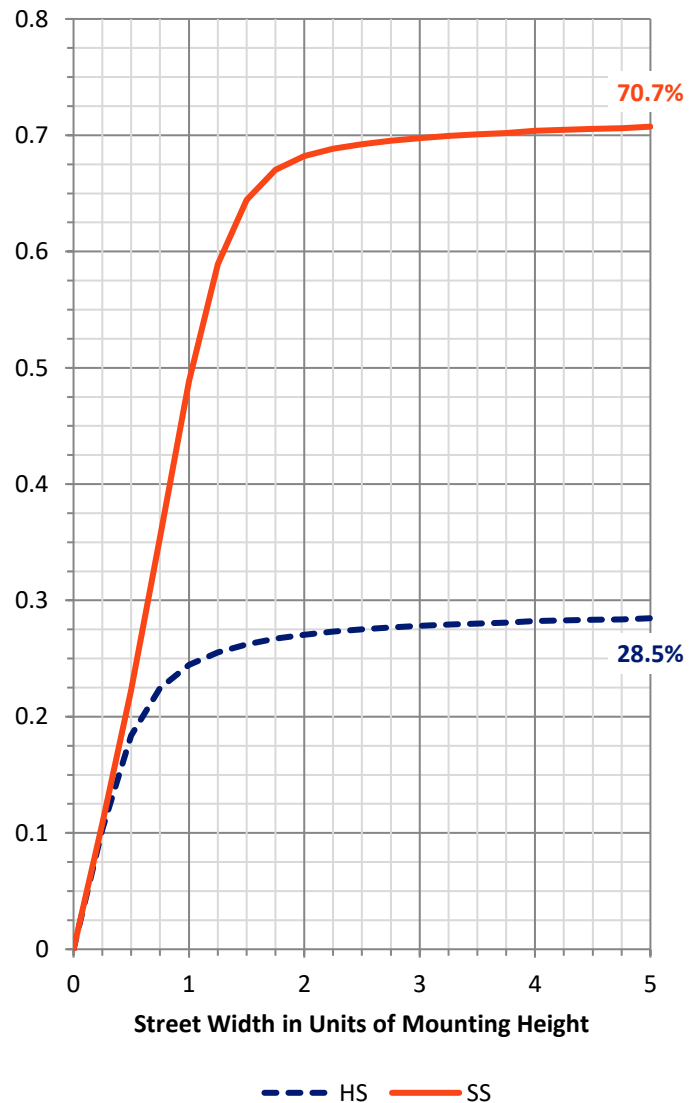
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1007.3	0.0	1007.3
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	2476.7	0.0	2476.7
	% Fixture	71.1	0.0	71.1
Total	Lumens	3484.0	0.0	3484.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.9	1.2
10°-20°	125.2	3.6
20°-30°	222.4	6.4
30°-40°	376.3	10.8
40°-50°	655.1	18.8
50°-60°	846.5	24.3
60°-70°	740.8	21.3
70°-80°	402.9	11.6
80°-90°	72.8	2.1
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°	3484.0	100.0
0°-180°	3484.0	100.0



REPORT NUMBER: P397728

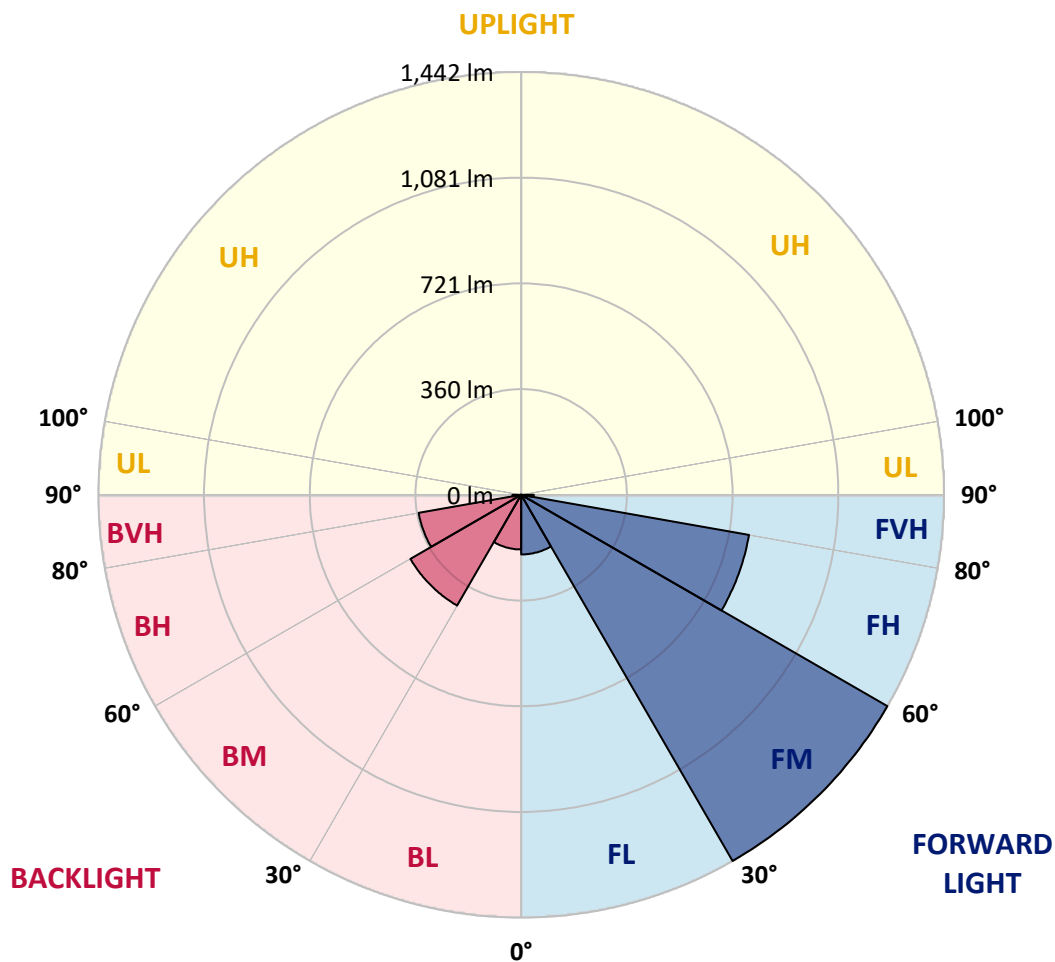
CATALOG NUMBER: ARCH-S-PA1-30-827-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	203.3	5.8			
FM (30°-60°)	1441.8	41.4			
FH (60°-80°)	788.8	22.6			G1/1800
FVH (80°-90°)	42.8	1.2			G1/100
BL (0°-30°)	186.3	5.3	B1/500		
BM (30°-60°)	436.1	12.5	B1/1000		
BH (60°-80°)	354.9	10.2	B1/500		G1/500
BVH (80°-90°)	30.0	0.9			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: P397728

CATALOG NUMBER: ARCH-S-PA1-30-827-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	440.2	440.2	440.2	440.2	440.2	440.2	440.2	440.2	440.2	440.2	440.2
2.5°	432.4	432.0	431.1	432.0	432.4	433.4	432.9	433.8	433.4	434.7	437.0
5°	421.4	420.5	420.1	422.4	423.7	426.0	426.9	430.1	429.7	432.0	435.7
7.5°	409.1	409.1	408.6	411.3	413.2	417.3	420.5	426.0	426.5	430.6	434.7
10°	399.4	399.9	399.4	401.7	404.5	409.5	415.0	422.8	423.3	429.2	433.4
12.5°	395.8	395.8	395.8	399.0	402.6	409.5	415.9	424.2	425.1	431.5	435.2
15°	400.8	401.3	400.3	403.6	407.7	415.9	421.9	430.6	431.5	437.5	439.8
17.5°	418.7	420.5	418.2	420.1	419.1	425.6	431.1	439.8	440.2	445.3	446.2
20°	454.0	455.8	452.2	449.9	441.6	441.2	443.4	450.3	450.3	453.5	451.2
22.5°	508.6	510.4	504.0	495.3	475.5	465.9	460.9	464.1	463.6	465.0	459.0
25°	581.0	580.6	572.8	556.7	525.1	501.7	489.3	484.3	484.3	481.5	474.2
27.5°	670.9	664.0	650.3	631.0	587.0	554.4	527.8	515.0	512.7	504.4	490.7
30°	766.7	761.7	742.0	714.0	663.1	621.4	577.4	551.7	550.3	532.4	511.8
32.5°	879.6	871.3	849.3	815.8	754.8	696.1	641.1	602.1	599.8	571.4	543.0
35°	1024.5	1017.6	974.9	941.5	863.0	786.0	720.9	669.1	667.2	632.4	596.2
37.5°	1198.3	1180.4	1139.1	1076.3	993.7	902.5	819.9	754.8	752.5	714.0	668.2
40°	1353.3	1337.2	1300.5	1242.8	1154.2	1052.9	941.0	862.1	859.8	813.1	755.3
42.5°	1467.9	1456.9	1433.1	1399.6	1336.3	1274.9	1095.5	991.9	987.8	927.2	855.3
45°	1534.4	1525.7	1511.9	1520.2	1519.3	1507.8	1279.9	1146.5	1133.2	1054.7	966.7
47.5°	1518.4	1510.6	1516.1	1580.3	1668.8	1735.3	1494.5	1304.7	1286.8	1184.5	1085.5
50°	1402.3	1405.5	1434.4	1557.3	1755.9	1903.6	1732.5	1484.9	1461.0	1315.2	1198.3
52.5°	1190.9	1198.7	1268.9	1440.9	1746.3	2012.7	1947.6	1671.1	1639.4	1442.7	1301.0
55°	946.1	965.8	1056.6	1237.2	1620.6	2020.5	2109.9	1858.2	1823.3	1562.4	1390.4
57.5°	699.8	729.1	834.2	1000.2	1379.9	1897.1	2191.1	2037.0	1994.8	1681.2	1484.9
60°	443.9	461.8	582.9	778.7	1056.1	1595.4	2180.5	2189.3	2152.6	1799.5	1583.5
62.5°	283.4	292.1	353.1	555.3	738.3	1181.3	2065.4	2304.4	2279.6	1907.2	1677.0
65°	182.1	185.7	216.9	341.6	502.6	713.1	1778.8	2316.7	2320.0	1974.6	1734.8
67.5°	148.1	150.0	161.4	210.9	355.4	393.9	1239.1	2140.7	2179.6	1957.2	1715.1
70°	134.8	137.1	149.0	168.3	275.1	271.9	599.8	1791.2	1855.0	1856.8	1627.5
72.5°	113.7	116.9	133.0	159.1	212.8	214.6	254.1	1275.8	1369.8	1659.6	1495.9
75°	94.9	96.8	110.5	140.3	180.2	171.5	178.4	676.4	812.1	1330.8	1356.0
77.5°	77.0	78.9	89.0	111.9	160.0	133.4	140.3	280.2	346.2	903.4	1108.4
80°	55.0	56.9	68.3	87.1	121.1	120.1	104.1	154.5	167.8	488.4	720.0
82.5°	39.4	40.8	51.8	62.4	83.9	120.6	78.4	105.0	110.1	216.4	290.3
85°	26.6	26.6	35.8	41.3	54.1	76.1	63.3	71.1	74.3	102.7	78.4
87.5°	11.5	11.5	19.3	21.1	28.4	35.3	47.2	35.8	36.7	55.5	32.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P397728

CATALOG NUMBER: ARCH-S-PA1-30-827-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	440.2	440.2	440.2	440.2	440.2	440.2	440.2	440.2	440.2	440.2	440.2
2.5°	438.4	438.9	439.8	442.5	444.4	447.1	448.5	450.3	450.3	449.4	449.9
5°	437.5	438.9	442.1	447.1	450.3	455.4	459.0	461.8	462.7	461.8	462.2
7.5°	437.0	439.3	444.8	452.2	456.7	463.2	468.2	471.4	473.7	472.8	473.3
10°	435.7	439.3	446.2	455.4	462.2	468.7	473.3	474.6	476.0	475.1	474.6
12.5°	437.5	441.6	448.9	460.0	467.8	472.8	474.2	471.9	468.7	466.8	466.4
15°	441.2	445.3	452.6	464.1	471.0	472.8	469.6	462.2	454.9	450.8	450.3
17.5°	446.2	448.9	454.9	465.0	470.5	468.2	461.8	453.1	447.6	444.4	444.8
20°	449.4	449.4	454.0	461.8	466.4	464.5	456.7	447.1	438.4	434.3	432.9
22.5°	454.0	451.7	452.2	459.0	465.5	462.7	446.2	429.2	416.8	412.3	411.8
25°	466.4	460.0	455.8	460.0	475.1	452.6	419.6	399.9	388.4	384.3	384.7
27.5°	481.5	472.8	464.1	471.0	482.9	429.7	385.7	363.2	356.3	353.1	354.5
30°	496.6	485.2	473.7	498.5	477.4	393.9	342.1	320.1	314.1	311.8	313.7
32.5°	524.6	505.8	492.1	535.2	460.4	353.1	294.9	274.7	269.2	266.4	265.5
35°	571.4	547.5	533.8	567.3	436.6	307.7	251.8	237.5	231.6	225.6	224.7
37.5°	638.8	609.9	597.5	585.6	403.1	262.8	218.7	209.1	200.4	191.2	190.8
40°	719.5	681.9	672.7	593.9	356.8	220.6	195.8	186.6	175.6	166.9	167.4
42.5°	812.6	764.5	744.7	591.6	299.5	198.1	179.3	169.2	159.6	151.8	151.3
45°	912.1	857.5	812.1	575.5	242.6	182.5	169.2	157.3	147.7	138.9	138.0
47.5°	1022.2	961.2	874.5	544.3	200.4	171.5	163.3	146.3	137.6	132.1	132.1
50°	1133.2	1060.2	931.8	497.1	175.6	163.3	154.5	140.3	133.4	128.9	128.9
52.5°	1228.1	1163.4	979.1	440.7	160.0	156.4	148.6	137.6	130.2	126.1	125.7
55°	1320.3	1259.3	1021.3	384.7	147.2	147.2	147.2	135.3	127.0	123.4	122.9
57.5°	1412.0	1360.1	1065.3	348.1	135.7	139.4	144.5	132.5	124.3	121.1	120.6
60°	1515.6	1481.2	1116.2	322.4	125.7	131.2	140.8	129.3	119.7	116.9	116.5
62.5°	1625.7	1625.7	1162.5	286.2	116.5	124.3	135.3	125.2	115.6	113.3	112.8
65°	1711.9	1749.0	1192.3	232.0	107.3	117.4	128.9	119.7	110.1	109.6	108.7
67.5°	1722.0	1780.2	1173.5	175.2	99.1	110.1	122.4	113.7	104.6	104.6	103.2
70°	1649.5	1708.7	1114.8	131.2	93.1	102.7	114.2	106.4	97.7	98.6	96.3
72.5°	1528.4	1543.1	969.0	103.6	86.2	94.9	104.1	98.1	90.3	90.3	87.1
75°	1368.9	1287.2	703.9	86.7	78.0	85.8	94.0	89.0	82.1	79.8	78.0
77.5°	1089.6	932.8	409.1	74.7	71.1	77.0	82.5	78.9	72.9	67.9	67.9
80°	664.0	546.6	180.7	64.7	62.8	67.4	71.1	67.0	61.9	56.9	55.5
82.5°	252.7	210.9	87.6	55.5	55.0	57.8	60.5	56.4	52.7	50.4	43.6
85°	69.2	63.7	60.1	46.3	45.4	44.9	48.2	46.3	41.3	33.9	30.3
87.5°	26.1	29.8	32.6	28.4	30.3	28.0	32.1	29.3	26.1	17.0	15.1
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)