

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: P573036

Luminaire Tested: **ARCH-S-PA2-20-830-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-20-830-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2935 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 23.5
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: 24 FT

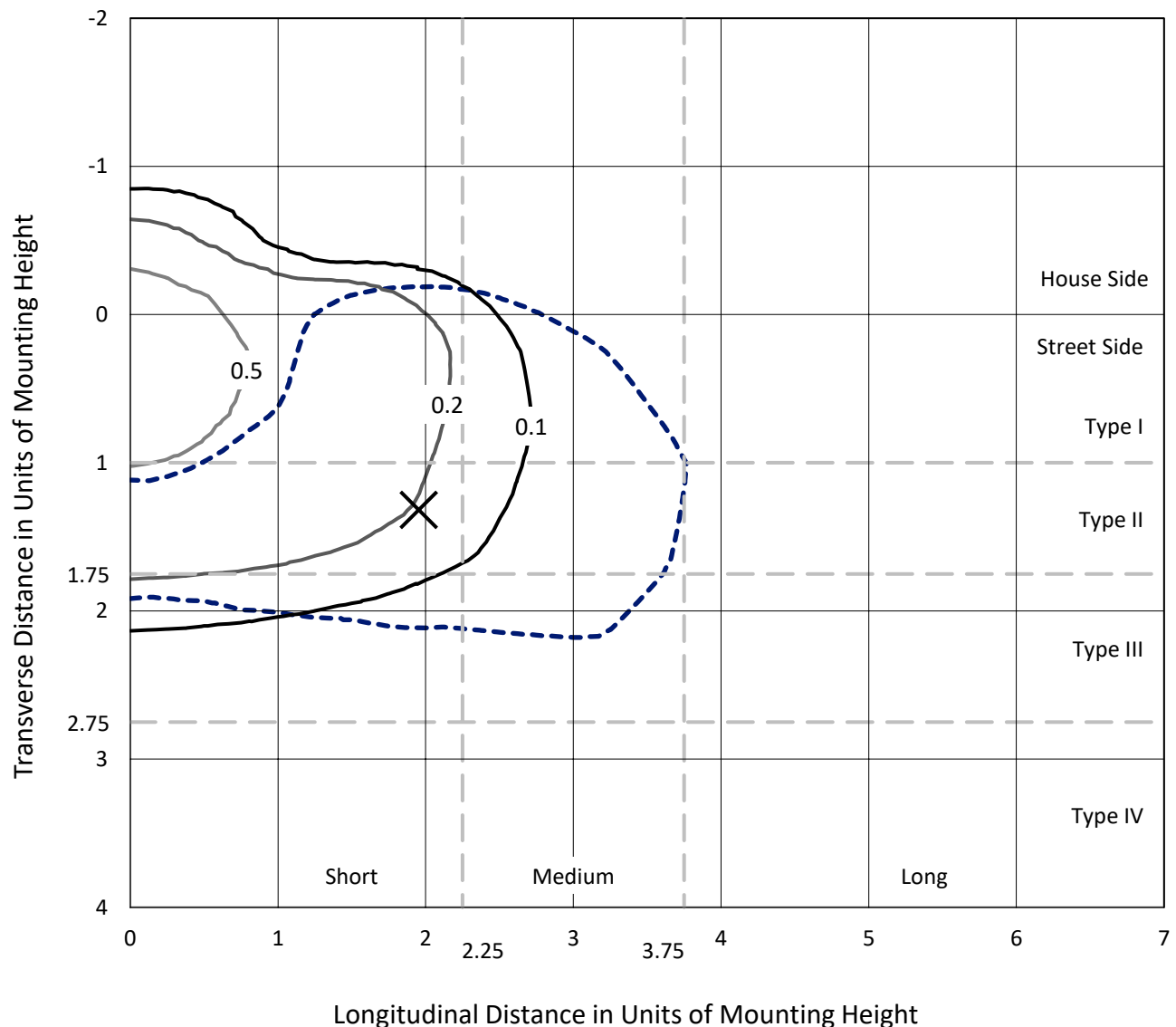


REPORT NUMBER: P573036

CATALOG NUMBER: ARCH-S-PA2-20-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

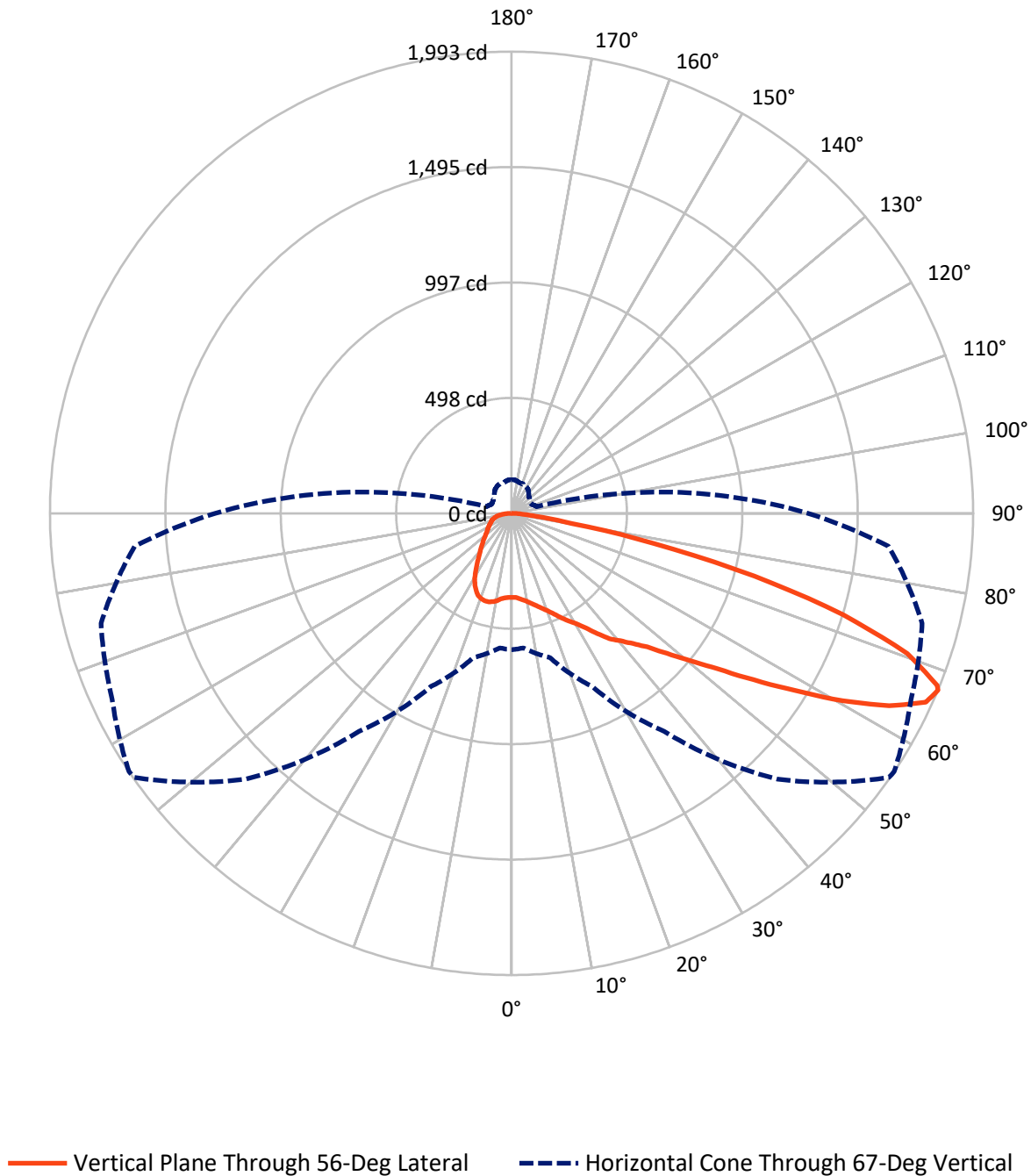
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type III - Short - N/A

REPORT NUMBER: P573036
CATALOG NUMBER: ARCH-S-PA2-20-830-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P573036

CATALOG NUMBER: ARCH-S-PA2-20-830-U-T3

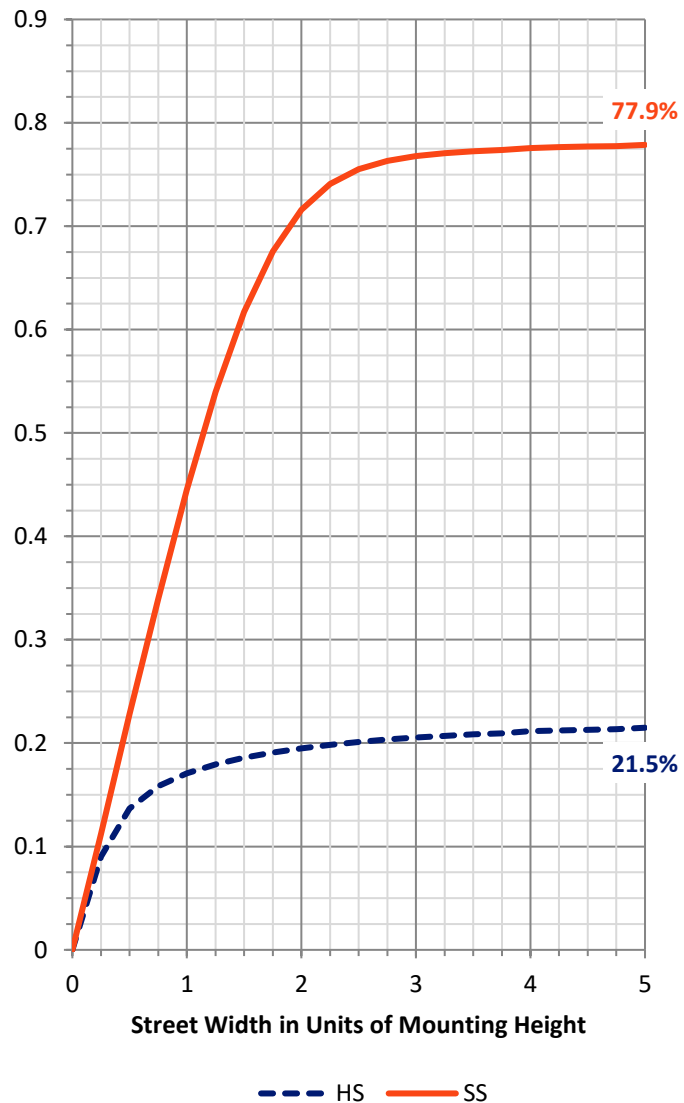
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	642.1	0.0	642.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	2292.9	0.0	2292.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	2935.0	0.0	2935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.6	1.2
10°-20°	114.3	3.9
20°-30°	199.0	6.8
30°-40°	291.7	9.9
40°-50°	426.9	14.5
50°-60°	667.1	22.7
60°-70°	792.9	27.0
70°-80°	361.1	12.3
80°-90°	46.3	1.6
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°	2935.0	100.0
0°-180°	2935.0	100.0

Coefficient of Utilization



REPORT NUMBER: P573036

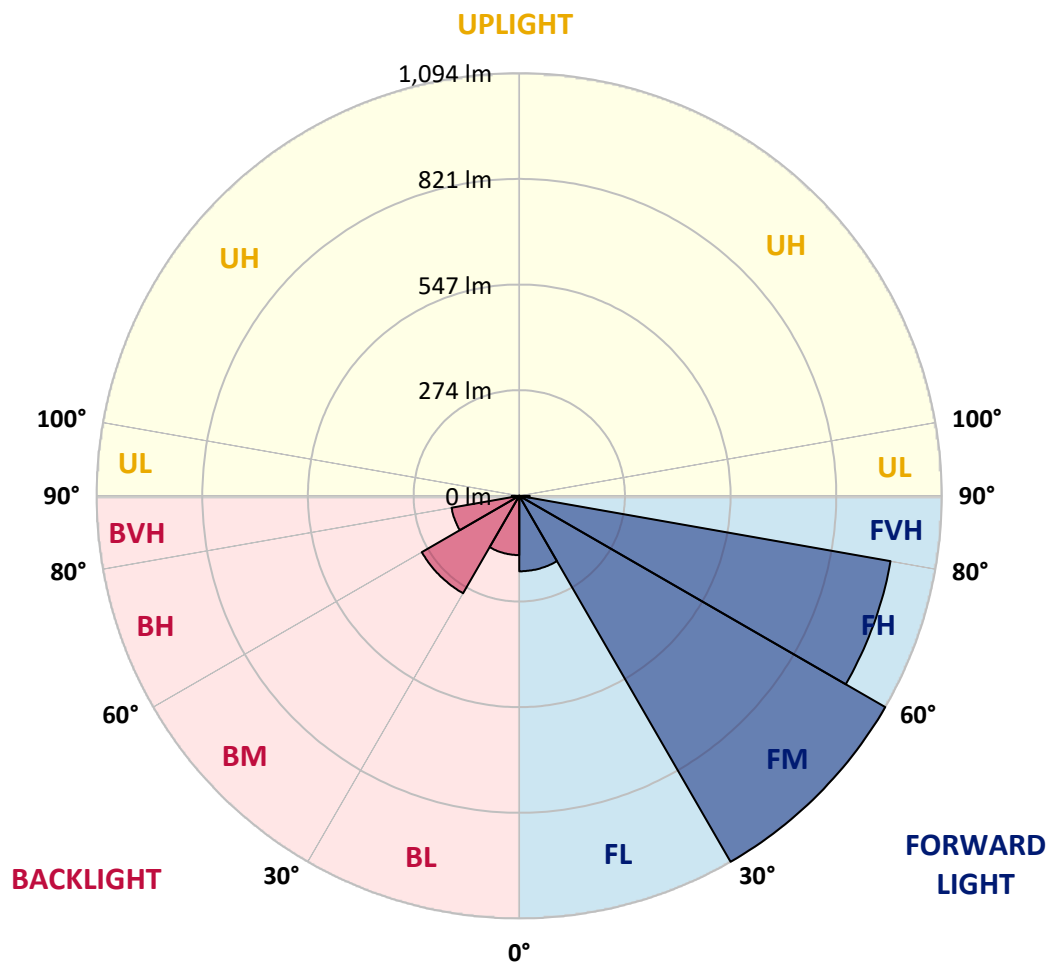
CATALOG NUMBER: ARCH-S-PA2-20-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	195.5	6.7			
FM	(30°-60°)	1094.2	37.3			
FH	(60°-80°)	976.1	33.3			G1/1800
FVH	(80°-90°)	27.0	0.9			G1/100
BL	(0°-30°)	153.5	5.2	B1/500		
BM	(30°-60°)	291.5	9.9	B1/1000		
BH	(60°-80°)	177.9	6.1	B1/500		G1/500
BVH	(80°-90°)	19.3	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 III Short





REPORT NUMBER: P573036

CATALOG NUMBER: ARCH-S-PA2-20-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4
2.5°	367.9	366.3	365.5	366.3	365.5	363.9	364.7	363.9	363.2	362.4	362.4
5°	372.7	371.1	370.3	371.1	371.9	370.3	370.3	370.3	367.9	367.1	365.5
7.5°	375.9	373.5	373.5	375.1	376.7	377.5	379.0	378.3	375.9	374.3	371.1
10°	386.2	383.0	383.0	383.0	384.6	386.2	387.8	388.6	387.8	387.0	384.6
12.5°	402.1	398.9	398.9	398.9	398.9	398.1	400.5	401.3	402.9	402.9	398.9
15°	423.5	419.6	418.0	414.8	414.0	412.4	415.6	415.6	418.0	418.8	414.8
17.5°	444.2	439.4	437.8	434.7	431.5	427.5	430.7	431.5	436.3	437.1	430.7
20°	465.7	464.1	461.7	456.9	451.4	447.4	450.6	449.8	453.7	455.3	447.4
22.5°	493.5	489.5	487.9	481.6	475.2	471.2	471.2	472.8	476.8	476.8	464.9
25°	526.8	521.3	517.3	510.2	502.2	497.4	498.2	499.8	505.4	501.4	483.1
27.5°	568.2	562.6	557.0	542.7	534.8	525.3	524.5	526.1	534.8	524.5	500.6
30°	607.1	604.7	600.0	588.8	576.1	560.2	553.1	553.9	560.2	545.9	515.7
32.5°	640.5	637.3	634.9	627.0	618.2	599.2	589.6	590.4	589.6	572.1	534.0
35°	680.2	675.4	673.9	666.7	655.6	642.9	638.9	637.3	632.5	608.7	557.8
37.5°	718.4	713.6	711.2	707.2	698.5	687.4	687.4	686.6	677.0	643.7	581.7
40°	763.7	758.1	750.9	748.6	741.4	733.5	727.1	723.1	706.4	676.2	627.8
42.5°	818.5	815.3	811.3	801.0	789.9	788.3	770.0	768.4	756.5	739.0	692.9
45°	897.2	890.8	885.2	882.1	868.5	854.2	828.8	822.5	822.5	818.5	769.2
47.5°	976.6	965.5	973.4	971.1	967.9	952.0	902.7	903.5	901.9	912.3	881.3
50°	1029.9	1023.5	1045.8	1056.1	1078.3	1078.3	1007.6	998.9	1005.2	1035.4	995.7
52.5°	1071.2	1067.2	1092.6	1133.2	1199.1	1205.5	1132.4	1114.1	1122.8	1165.7	1149.8
55°	1104.6	1100.6	1130.0	1200.7	1306.4	1345.3	1276.2	1268.3	1250.8	1296.9	1301.6
57.5°	1124.4	1115.7	1160.2	1254.7	1393.8	1483.6	1444.7	1442.3	1401.8	1444.7	1466.1
60°	1094.2	1088.7	1149.8	1277.0	1464.5	1613.9	1642.5	1642.5	1570.2	1593.3	1619.5
62.5°	996.5	989.3	1053.7	1225.3	1473.3	1720.4	1838.8	1829.3	1732.3	1731.5	1708.5
65°	810.5	801.8	874.1	1055.3	1362.8	1733.1	1971.5	1965.9	1853.9	1822.1	1714.0
67°	588.8	583.3	645.3	824.8	1148.3	1622.7	1988.2	1993.0	1902.4	1834.8	1633.8
67.5°	528.4	527.6	579.3	757.3	1085.5	1582.1	1977.1	1981.8	1901.6	1824.5	1602.0
70°	246.3	257.5	305.9	433.9	731.9	1246.0	1794.3	1812.6	1799.9	1705.3	1349.3
72.5°	114.4	119.2	140.7	209.8	393.3	803.4	1454.2	1497.9	1553.5	1462.9	1068.8
75°	70.7	72.3	84.2	108.9	185.2	386.2	1035.4	1083.1	1167.3	1100.6	683.4
77.5°	55.6	56.4	64.4	77.9	108.1	166.1	568.2	627.8	737.4	650.8	344.1
80°	41.3	42.9	49.3	60.4	76.3	85.0	241.6	263.8	356.0	272.6	143.0
82.5°	30.2	31.8	38.1	43.7	53.2	54.0	98.5	104.1	152.6	110.5	62.0
85°	25.4	25.4	29.4	32.6	35.8	30.2	48.5	47.7	58.8	50.1	24.6
87.5°	11.9	12.7	27.8	20.7	17.5	12.7	14.3	15.1	18.3	19.9	9.5
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: P573036

CATALOG NUMBER: ARCH-S-PA2-20-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4
2.5°	361.6	361.6	361.6	362.4	363.2	363.2	363.9	363.9	364.7	365.5	367.1
5°	364.7	364.7	363.9	364.7	366.3	367.1	368.7	370.3	371.9	373.5	374.3
7.5°	371.1	370.3	370.3	370.3	371.9	373.5	375.9	377.5	379.8	380.6	382.2
10°	383.0	381.4	381.4	382.2	383.0	380.6	379.8	379.0	381.4	383.0	384.6
12.5°	397.3	395.7	394.9	392.6	389.4	384.6	380.6	377.5	378.3	379.8	382.2
15°	412.4	409.2	407.7	402.1	394.1	383.8	377.5	373.5	373.5	373.5	375.9
17.5°	428.3	425.1	418.8	408.4	393.3	379.0	371.1	363.9	360.8	360.0	361.6
20°	443.4	438.6	428.3	412.4	388.6	369.5	359.2	347.3	342.5	339.3	340.9
22.5°	457.7	451.4	437.1	412.4	380.6	355.2	336.9	321.0	313.1	311.5	312.3
25°	472.8	464.9	445.8	407.7	363.2	333.8	308.3	291.6	281.3	279.7	282.1
27.5°	487.9	476.0	452.9	394.9	343.3	304.3	277.3	261.4	255.9	252.7	253.5
30°	500.6	489.5	460.1	377.5	316.3	270.2	245.5	238.4	234.4	232.8	232.8
32.5°	517.3	507.0	464.9	356.8	284.5	239.2	223.3	217.7	214.6	210.6	211.4
35°	538.0	528.4	462.5	330.6	254.3	218.5	205.8	197.9	190.7	185.2	184.4
37.5°	565.8	558.6	450.6	298.8	226.5	203.4	190.7	180.4	170.1	161.3	159.7
40°	611.9	595.2	433.1	263.8	207.4	191.5	176.4	163.7	151.0	141.4	139.1
42.5°	670.7	635.7	409.2	228.1	191.5	178.8	163.7	147.0	135.1	126.3	126.3
45°	739.0	679.4	380.6	201.0	174.8	166.1	147.8	133.5	126.3	120.8	120.0
47.5°	820.1	723.1	344.1	179.6	161.3	155.0	136.7	127.9	123.2	118.4	117.6
50°	928.9	781.9	317.1	161.3	147.8	142.2	133.5	126.3	121.6	118.4	117.6
52.5°	1053.7	857.4	298.0	147.0	136.7	134.3	132.7	127.1	122.4	120.0	119.2
55°	1188.8	950.4	279.7	135.1	127.9	131.1	134.3	128.7	125.6	122.4	120.8
57.5°	1315.9	1029.1	250.3	124.8	121.6	127.1	133.5	129.5	125.6	123.2	122.4
60°	1402.5	1068.8	209.8	115.2	115.2	121.6	131.1	125.6	121.6	122.4	122.4
62.5°	1430.4	1053.7	166.1	106.5	108.9	115.2	124.0	120.8	119.2	123.2	123.2
65°	1389.0	992.5	132.7	99.3	102.5	107.3	120.0	123.2	127.9	136.7	137.5
67°	1281.0	894.0	112.0	93.8	96.9	104.9	124.8	135.9	135.9	145.4	145.4
67.5°	1249.2	860.6	108.9	92.2	96.2	104.9	127.1	139.1	135.9	147.0	147.0
70°	1015.6	677.0	92.2	87.4	93.0	110.5	137.5	139.9	132.7	143.0	142.2
72.5°	753.3	489.5	84.2	82.6	86.6	104.1	136.7	134.3	124.0	127.1	124.8
75°	465.7	283.7	77.9	76.3	78.7	92.2	126.3	122.4	110.5	108.1	105.7
77.5°	224.9	143.8	66.8	69.1	71.5	80.3	111.3	107.3	96.9	91.4	90.6
80°	97.7	73.9	57.2	61.2	62.0	68.3	92.2	87.4	77.9	69.1	69.1
82.5°	48.5	41.3	45.3	50.9	49.3	54.8	72.3	64.4	57.2	47.7	46.1
85°	22.3	23.8	33.4	38.1	33.4	34.2	49.3	45.3	35.8	27.0	27.8
87.5°	7.9	11.1	19.1	23.0	16.7	15.9	26.2	19.1	11.1	3.2	4.0
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)