

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: P573108

Luminaire Tested: **ARCH-S-PA2-30-827-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573108
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-PA2-30-827-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3857 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

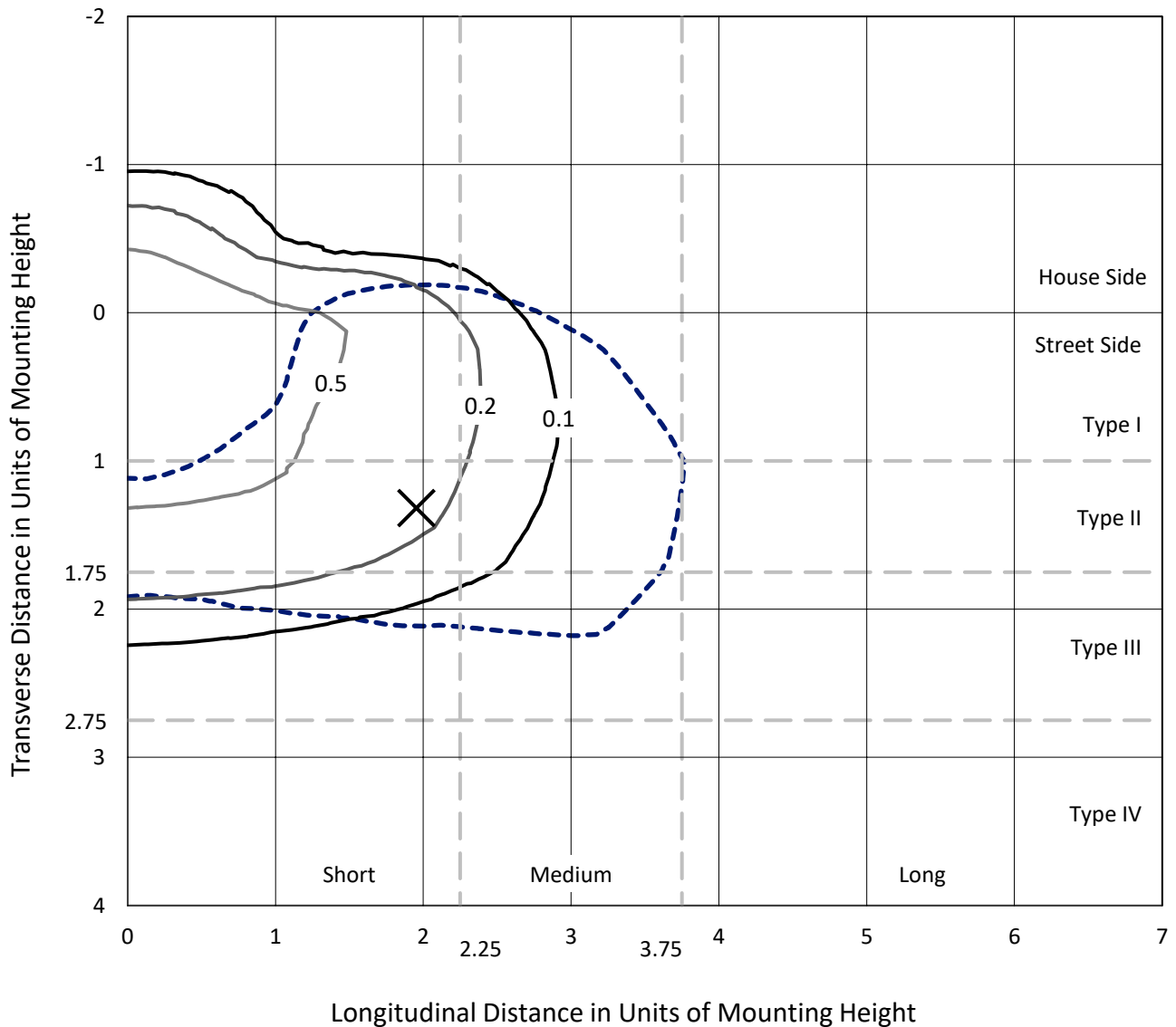
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573108
 CATALOG NUMBER: ARCH-S-PA2-30-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

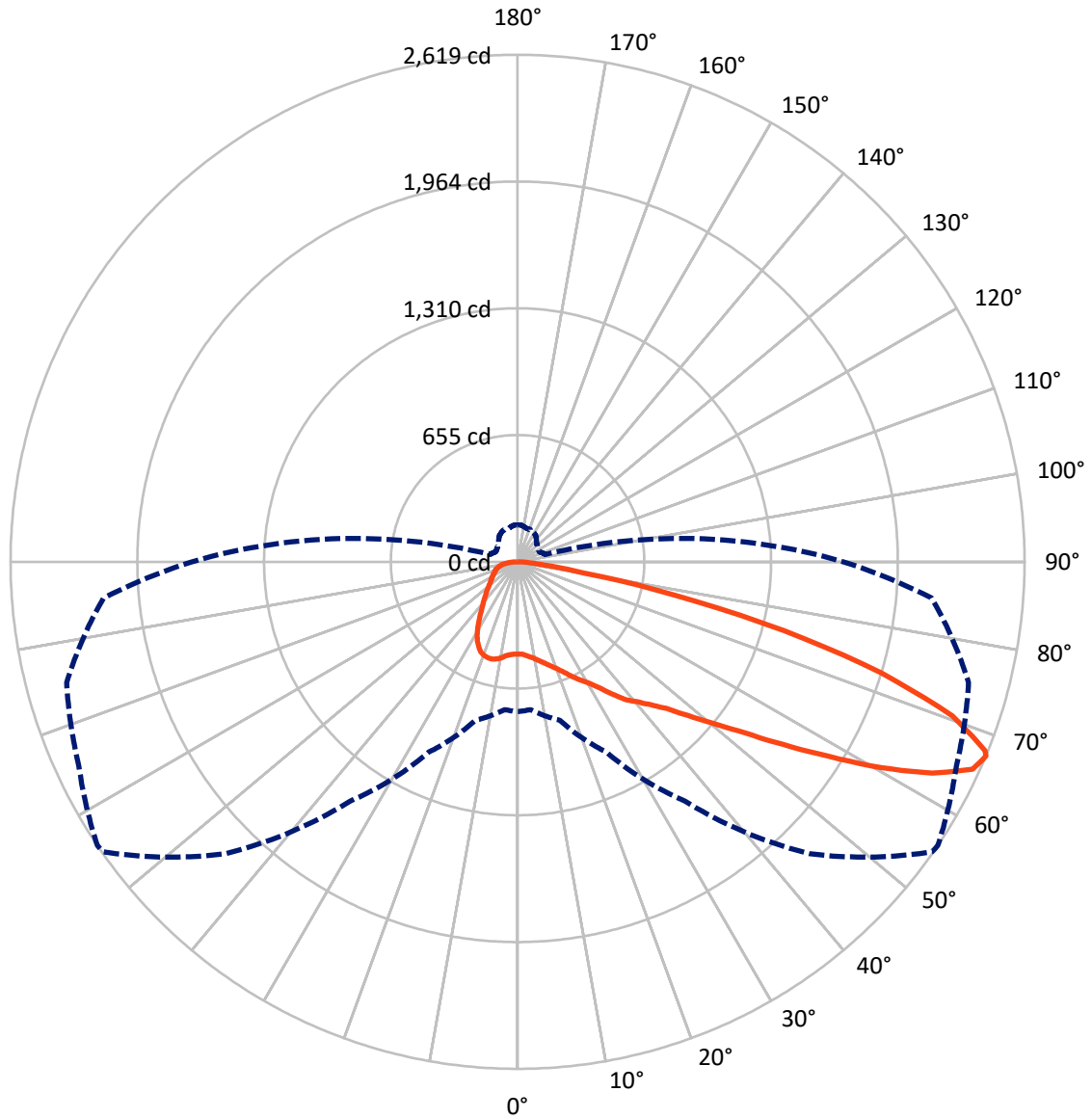
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type III - Short - N/A

REPORT NUMBER: P573108
CATALOG NUMBER: ARCH-S-PA2-30-827-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P573108
 CATALOG NUMBER: ARCH-S-PA2-30-827-U-T3

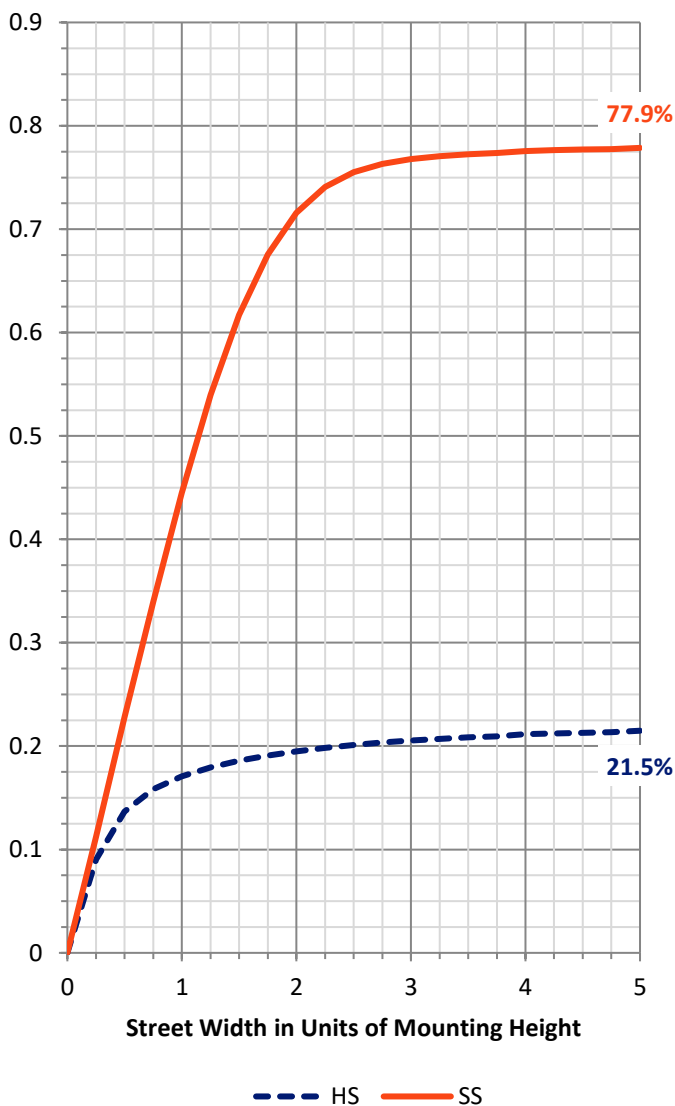
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	843.8	0.0	843.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3013.2	0.0	3013.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	3857.0	0.0	3857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	1.2
10°-20°	150.2	3.9
20°-30°	261.5	6.8
30°-40°	383.4	9.9
40°-50°	560.9	14.5
50°-60°	876.7	22.7
60°-70°	1042.0	27.0
70°-80°	474.6	12.3
80°-90°	60.9	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°	3857.0	100.0
0°-180°	3857.0	100.0

Coefficient of Utilization



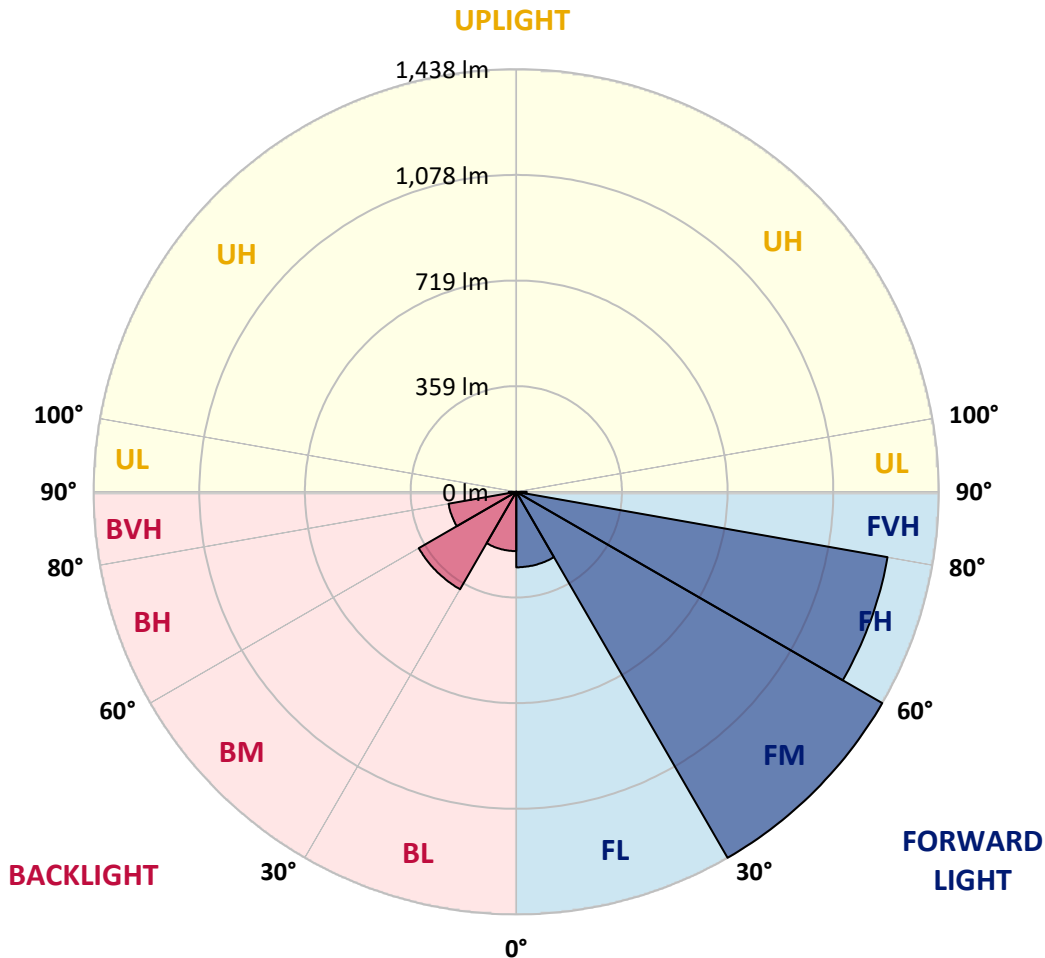
REPORT NUMBER: P573108
 CATALOG NUMBER: ARCH-S-PA2-30-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	256.9	6.7			
FM (30°-60°)	1438.0	37.3			
FH (60°-80°)	1282.8	33.3			G1/1800
FVH (80°-90°)	35.5	0.9			G1/100
BL (0°-30°)	201.7	5.2	B1/500		
BM (30°-60°)	383.0	9.9	B1/1000		
BH (60°-80°)	233.8	6.1	B1/500		G1/500
BVH (80°-90°)	25.4	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 III Short





REPORT NUMBER: P573108
 CATALOG NUMBER: ARCH-S-PA2-30-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2
2.5°	483.5	481.4	480.4	481.4	480.4	478.3	479.3	478.3	477.2	476.2	476.2
5°	489.8	487.7	486.6	487.7	488.7	486.6	486.6	486.6	483.5	482.5	480.4
7.5°	493.9	490.8	490.8	492.9	495.0	496.0	498.1	497.1	493.9	491.9	487.7
10°	507.5	503.3	503.3	503.3	505.4	507.5	509.6	510.6	509.6	508.6	505.4
12.5°	528.4	524.2	524.2	524.2	524.2	523.2	526.3	527.4	529.4	529.4	524.2
15°	556.6	551.4	549.3	545.1	544.1	542.0	546.2	546.2	549.3	550.3	545.1
17.5°	583.7	577.5	575.4	571.2	567.0	561.8	566.0	567.0	573.3	574.4	566.0
20°	611.9	609.9	606.7	600.5	593.1	587.9	592.1	591.1	596.3	598.4	587.9
22.5°	648.5	643.3	641.2	632.8	624.5	619.3	619.3	621.3	626.6	626.6	610.9
25°	692.4	685.0	679.8	670.4	660.0	653.7	654.8	656.8	664.2	658.9	634.9
27.5°	746.7	739.3	732.0	713.2	702.8	690.3	689.2	691.3	702.8	689.2	657.9
30°	797.8	794.7	788.4	773.8	757.1	736.2	726.8	727.9	736.2	717.4	677.7
32.5°	841.7	837.5	834.4	823.9	812.4	787.4	774.9	775.9	774.9	751.9	701.8
35°	893.9	887.6	885.5	876.1	861.5	844.8	839.6	837.5	831.2	799.9	733.1
37.5°	944.0	937.8	934.6	929.4	917.9	903.3	903.3	902.3	889.7	845.9	764.4
40°	1003.5	996.2	986.8	983.7	974.3	963.9	955.5	950.3	928.4	888.7	825.0
42.5°	1075.6	1071.4	1066.2	1052.6	1038.0	1035.9	1011.9	1009.8	994.1	971.2	910.6
45°	1179.0	1170.6	1163.3	1159.1	1141.4	1122.6	1089.2	1080.8	1080.8	1075.6	1010.9
47.5°	1283.4	1268.8	1279.2	1276.1	1271.9	1251.0	1186.3	1187.3	1185.2	1198.8	1158.1
50°	1353.4	1345.0	1374.3	1387.8	1417.1	1417.1	1324.1	1312.7	1321.0	1360.7	1308.5
52.5°	1407.7	1402.5	1435.9	1489.1	1575.8	1584.2	1488.1	1464.1	1475.6	1531.9	1511.1
55°	1451.5	1446.3	1485.0	1577.9	1716.8	1768.0	1677.1	1666.7	1643.7	1704.3	1710.5
57.5°	1477.6	1466.2	1524.6	1648.9	1831.7	1949.7	1898.5	1895.4	1842.1	1898.5	1926.7
60°	1438.0	1430.7	1511.1	1678.1	1924.6	2120.9	2158.5	2158.5	2063.5	2093.8	2128.2
62.5°	1309.5	1300.1	1384.7	1610.3	1936.1	2260.9	2416.4	2403.9	2276.5	2275.5	2245.2
65°	1065.2	1053.7	1148.7	1386.8	1790.9	2277.6	2590.8	2583.5	2436.3	2394.5	2252.5
67°	773.8	766.5	847.9	1084.0	1509.0	2132.4	2612.8	2619.0	2500.0	2411.2	2147.0
67.5°	694.4	693.4	761.3	995.2	1426.5	2079.1	2598.2	2604.4	2498.9	2397.7	2105.3
70°	323.7	338.3	402.0	570.2	961.8	1637.4	2358.0	2382.0	2365.3	2241.0	1773.2
72.5°	150.4	156.6	184.8	275.7	516.9	1055.8	1911.0	1968.5	2041.6	1922.5	1404.5
75°	92.9	95.0	110.7	143.1	243.3	507.5	1360.7	1423.3	1534.0	1446.3	898.1
77.5°	73.1	74.1	84.6	102.3	142.0	218.3	746.7	825.0	969.1	855.3	452.2
80°	54.3	56.4	64.7	79.4	100.3	111.7	317.5	346.7	467.8	358.2	188.0
82.5°	39.7	41.8	50.1	57.4	70.0	71.0	129.5	136.8	200.5	145.2	81.5
85°	33.4	33.4	38.6	42.8	47.0	39.7	63.7	62.7	77.3	65.8	32.4
87.5°	15.7	16.7	36.5	27.2	23.0	16.7	18.8	19.8	24.0	26.1	12.5
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: P573108
 CATALOG NUMBER: ARCH-S-PA2-30-827-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2	476.2
2.5°	475.1	475.1	475.1	476.2	477.2	477.2	478.3	478.3	479.3	480.4	482.5
5°	479.3	479.3	478.3	479.3	481.4	482.5	484.5	486.6	488.7	490.8	491.9
7.5°	487.7	486.6	486.6	486.6	488.7	490.8	493.9	496.0	499.2	500.2	502.3
10°	503.3	501.3	501.3	502.3	503.3	500.2	499.2	498.1	501.3	503.3	505.4
12.5°	522.1	520.0	519.0	515.9	511.7	505.4	500.2	496.0	497.1	499.2	502.3
15°	542.0	537.8	535.7	528.4	518.0	504.4	496.0	490.8	490.8	490.8	493.9
17.5°	562.9	558.7	550.3	536.8	516.9	498.1	487.7	478.3	474.1	473.1	475.1
20°	582.7	576.4	562.9	542.0	510.6	485.6	472.0	456.3	450.1	445.9	448.0
22.5°	601.5	593.1	574.4	542.0	500.2	466.8	442.8	421.9	411.4	409.4	410.4
25°	621.3	610.9	585.8	535.7	477.2	438.6	405.2	383.2	369.7	367.6	370.7
27.5°	641.2	625.5	595.2	519.0	451.1	400.0	364.5	343.6	336.3	332.1	333.1
30°	657.9	643.3	604.6	496.0	415.6	355.1	322.7	313.3	308.1	306.0	306.0
32.5°	679.8	666.2	610.9	468.9	373.8	314.3	293.4	286.1	282.0	276.7	277.8
35°	707.0	694.4	607.8	434.4	334.2	287.2	270.5	260.0	250.6	243.3	242.3
37.5°	743.5	734.1	592.1	392.6	297.6	267.3	250.6	237.0	223.5	212.0	209.9
40°	804.1	782.2	569.1	346.7	272.6	251.7	231.8	215.1	198.4	185.9	182.7
42.5°	881.4	835.4	537.8	299.7	251.7	235.0	215.1	193.2	177.5	166.0	166.0
45°	971.2	892.9	500.2	264.2	229.7	218.3	194.2	175.4	166.0	158.7	157.7
47.5°	1077.7	950.3	452.2	236.0	212.0	203.6	179.6	168.1	161.9	155.6	154.6
50°	1220.8	1027.6	416.7	212.0	194.2	186.9	175.4	166.0	159.8	155.6	154.6
52.5°	1384.7	1126.8	391.6	193.2	179.6	176.5	174.4	167.1	160.8	157.7	156.6
55°	1562.2	1249.0	367.6	177.5	168.1	172.3	176.5	169.2	165.0	160.8	158.7
57.5°	1729.3	1352.3	328.9	164.0	159.8	167.1	175.4	170.2	165.0	161.9	160.8
60°	1843.1	1404.5	275.7	151.4	151.4	159.8	172.3	165.0	159.8	160.8	160.8
62.5°	1879.7	1384.7	218.3	139.9	143.1	151.4	162.9	158.7	156.6	161.9	161.9
65°	1825.4	1304.3	174.4	130.5	134.7	141.0	157.7	161.9	168.1	179.6	180.7
67°	1683.4	1174.8	147.2	123.2	127.4	137.8	164.0	178.6	178.6	191.1	191.1
67.5°	1641.6	1130.9	143.1	121.1	126.4	137.8	167.1	182.7	178.6	193.2	193.2
70°	1334.6	889.7	121.1	114.9	122.2	145.2	180.7	183.8	174.4	188.0	186.9
72.5°	990.0	643.3	110.7	108.6	113.8	136.8	179.6	176.5	162.9	167.1	164.0
75°	611.9	372.8	102.3	100.3	103.4	121.1	166.0	160.8	145.2	142.0	138.9
77.5°	295.5	189.0	87.7	90.9	94.0	105.5	146.2	141.0	127.4	120.1	119.0
80°	128.4	97.1	75.2	80.4	81.5	89.8	121.1	114.9	102.3	90.9	90.9
82.5°	63.7	54.3	59.5	66.8	64.7	72.1	95.0	84.6	75.2	62.7	60.6
85°	29.2	31.3	43.9	50.1	43.9	44.9	64.7	59.5	47.0	35.5	36.5
87.5°	10.4	14.6	25.1	30.3	21.9	20.9	34.5	25.1	14.6	4.2	5.2
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)