

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: P572973

Luminaire Tested: **ARCH-S-PA2-20-727-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572973
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-PA2-20-727-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3088 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

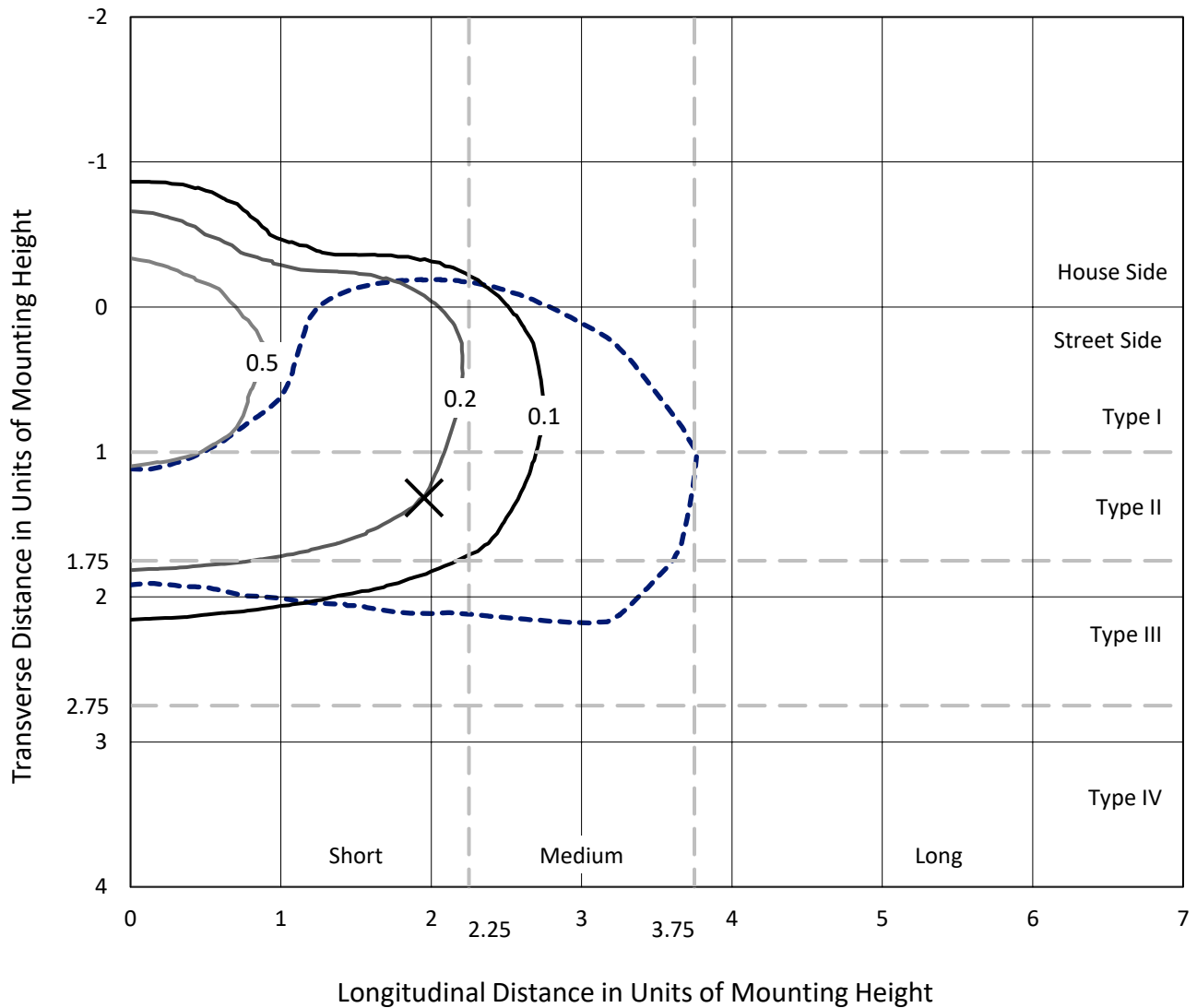
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572973
 CATALOG NUMBER: ARCH-S-PA2-20-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

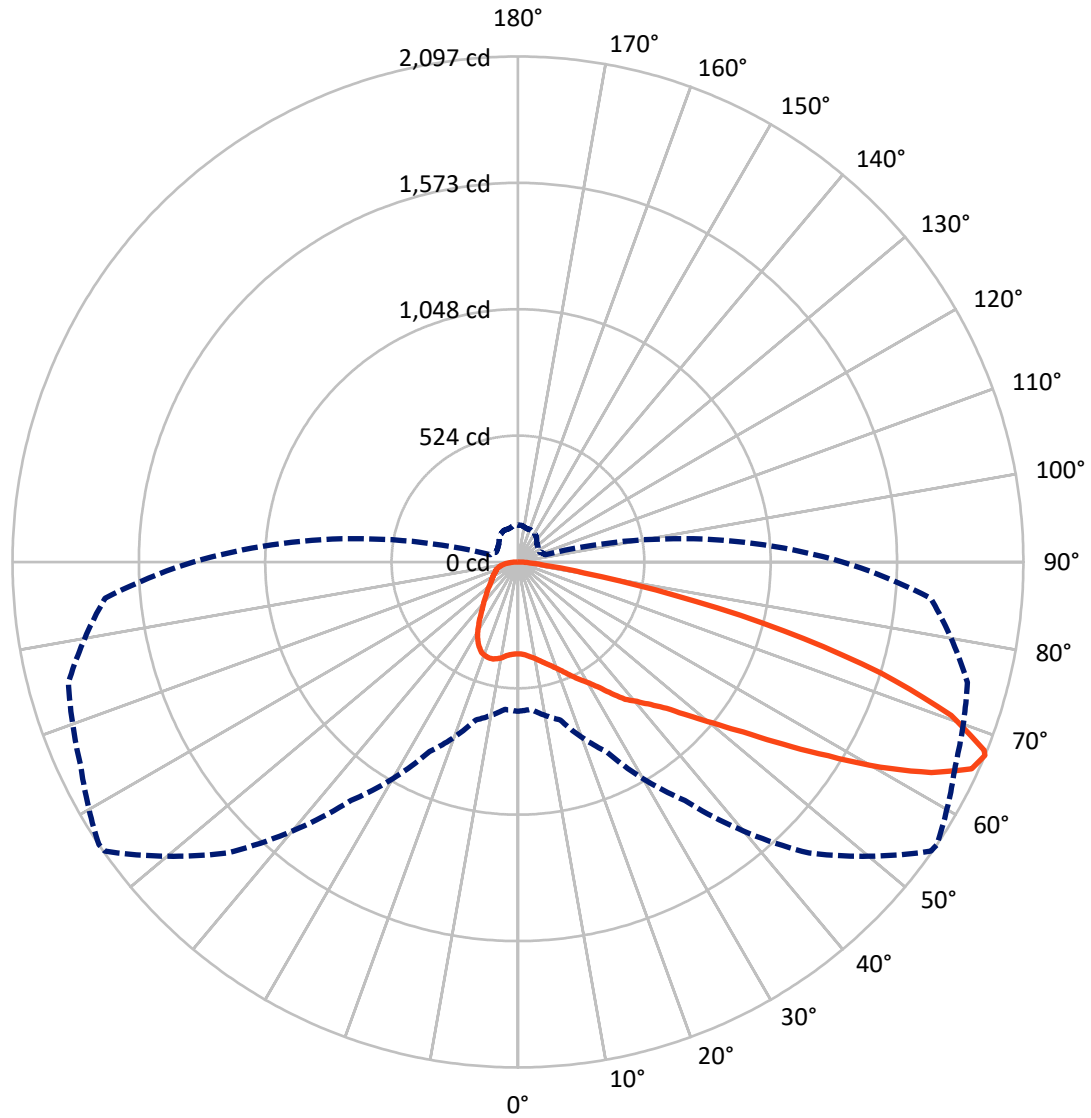
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type III - Short - N/A

REPORT NUMBER: P572973
CATALOG NUMBER: ARCH-S-PA2-20-727-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P572973

CATALOG NUMBER: ARCH-S-PA2-20-727-U-T3

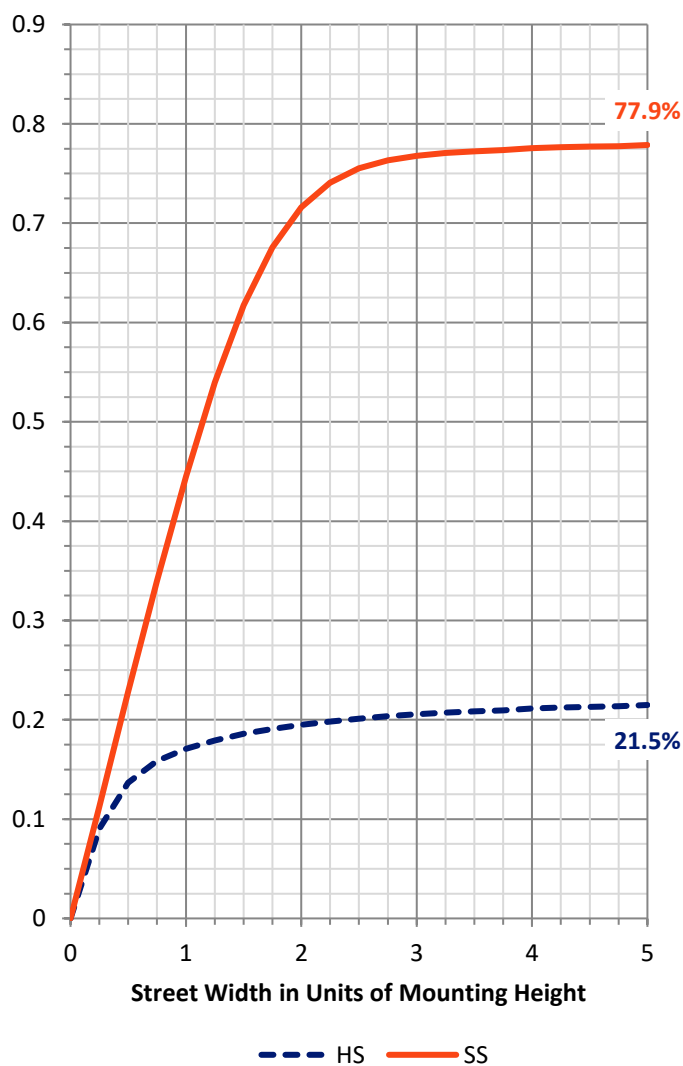
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	675.6	0.0	675.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	2412.4	0.0	2412.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	3088.0	0.0	3088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	1.2
10°-20°	120.3	3.9
20°-30°	209.3	6.8
30°-40°	307.0	9.9
40°-50°	449.1	14.5
50°-60°	701.9	22.7
60°-70°	834.2	27.0
70°-80°	379.9	12.3
80°-90°	48.7	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°	3088.0	100.0
0°-180°	3088.0	100.0

Coefficient of Utilization



REPORT NUMBER: P572973

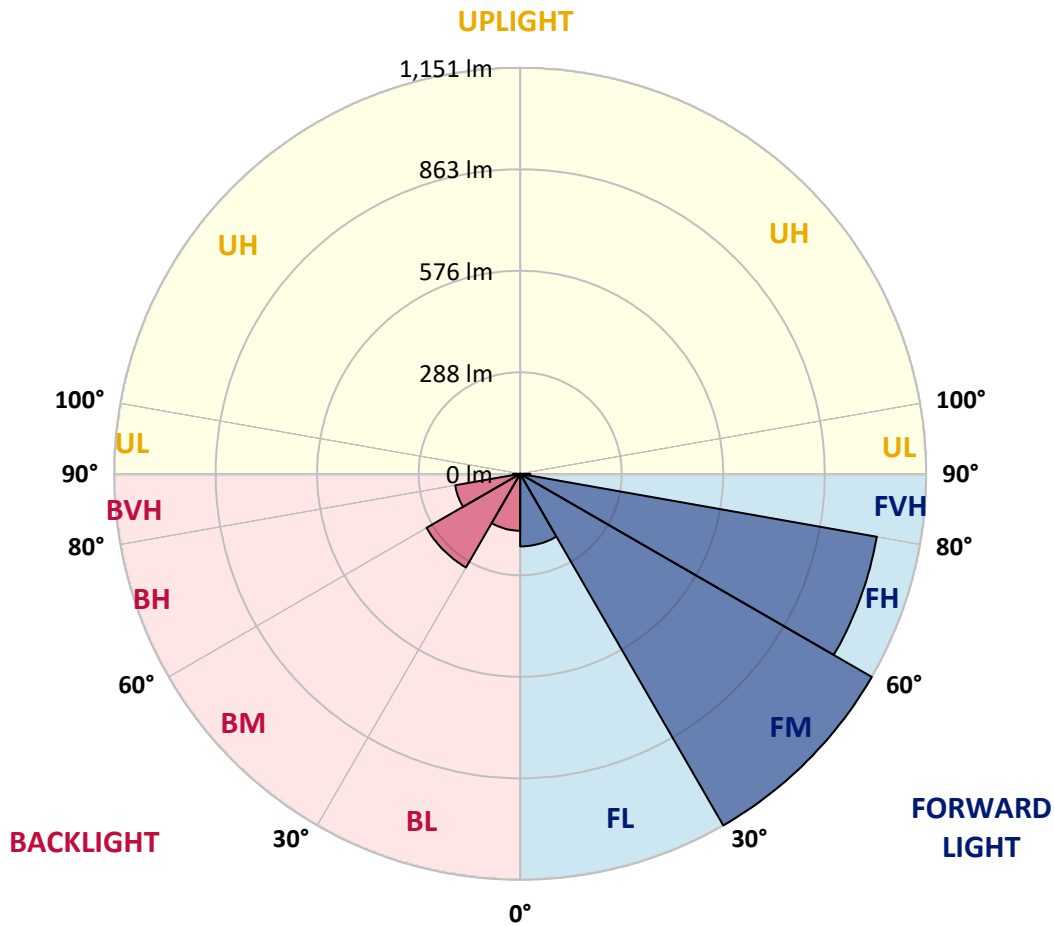
CATALOG NUMBER: ARCH-S-PA2-20-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	205.7	6.7			
FM (30°-60°)	1151.3	37.3			
FH (60°-80°)	1027.0	33.3			G1/1800
FVH (80°-90°)	28.4	0.9			G1/100
BL (0°-30°)	161.5	5.2	B1/500		
BM (30°-60°)	306.7	9.9	B1/1000		
BH (60°-80°)	187.2	6.1	B1/500		G1/500
BVH (80°-90°)	20.3	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: P572973
 CATALOG NUMBER: ARCH-S-PA2-20-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2
2.5°	387.1	385.4	384.6	385.4	384.6	382.9	383.8	382.9	382.1	381.2	381.2
5°	392.1	390.4	389.6	390.4	391.3	389.6	389.6	389.6	387.1	386.3	384.6
7.5°	395.5	393.0	393.0	394.6	396.3	397.1	398.8	398.0	395.5	393.8	390.4
10°	406.3	403.0	403.0	403.0	404.7	406.3	408.0	408.8	408.0	407.2	404.7
12.5°	423.1	419.7	419.7	419.7	419.7	418.9	421.4	422.2	423.9	423.9	419.7
15°	445.6	441.4	439.8	436.4	435.6	433.9	437.3	437.3	439.8	440.6	436.4
17.5°	467.4	462.3	460.7	457.3	454.0	449.8	453.1	454.0	459.0	459.8	453.1
20°	489.9	488.3	485.8	480.7	474.9	470.7	474.1	473.2	477.4	479.1	470.7
22.5°	519.2	515.0	513.3	506.7	500.0	495.8	495.8	497.5	501.6	501.6	489.1
25°	554.3	548.5	544.3	536.8	528.4	523.4	524.2	525.9	531.7	527.6	508.3
27.5°	597.8	591.9	586.1	571.0	562.7	552.6	551.8	553.5	562.7	551.8	526.7
30°	638.8	636.2	631.2	619.5	606.1	589.4	581.9	582.7	589.4	574.4	542.6
32.5°	673.9	670.5	668.0	659.7	650.5	630.4	620.4	621.2	620.4	602.0	561.8
35°	715.7	710.7	709.0	701.5	689.8	676.4	672.2	670.5	665.5	640.4	586.9
37.5°	755.8	750.8	748.3	744.1	734.9	723.2	723.2	722.4	712.3	677.2	612.0
40°	803.5	797.6	790.1	787.6	780.1	771.7	765.0	760.8	743.3	711.5	660.5
42.5°	861.2	857.8	853.6	842.8	831.1	829.4	810.1	808.5	795.9	777.5	729.1
45°	943.9	937.2	931.4	928.0	913.8	898.8	872.0	865.3	865.3	861.2	809.3
47.5°	1027.5	1015.8	1024.2	1021.7	1018.3	1001.6	949.8	950.6	948.9	959.8	927.2
50°	1083.5	1076.9	1100.3	1111.1	1134.5	1134.5	1060.1	1050.9	1057.6	1089.4	1047.6
52.5°	1127.0	1122.8	1149.6	1192.2	1261.6	1268.3	1191.4	1172.2	1181.4	1226.5	1209.8
55°	1162.1	1158.0	1188.9	1263.3	1374.5	1415.5	1342.7	1334.4	1316.0	1364.5	1369.5
57.5°	1183.0	1173.8	1220.7	1320.2	1466.5	1560.9	1520.0	1517.5	1474.8	1520.0	1542.5
60°	1151.3	1145.4	1209.8	1343.6	1540.9	1698.1	1728.2	1728.2	1652.1	1676.3	1703.9
62.5°	1048.4	1040.9	1108.6	1289.2	1550.1	1810.1	1934.7	1924.6	1822.6	1821.8	1797.5
65°	852.8	843.6	919.7	1110.3	1433.9	1823.5	2074.3	2068.4	1950.5	1917.1	1803.4
67°	619.5	613.7	678.9	867.8	1208.1	1707.3	2091.8	2096.9	2001.5	1930.5	1719.0
67.5°	556.0	555.1	609.5	796.8	1142.1	1664.6	2080.1	2085.2	2000.7	1919.6	1685.5
70°	259.2	270.9	321.9	456.5	770.0	1311.0	1887.8	1907.1	1893.7	1794.2	1419.6
72.5°	120.4	125.4	148.0	220.7	413.9	845.3	1530.0	1576.0	1634.5	1539.2	1124.5
75°	74.4	76.1	88.6	114.5	194.8	406.3	1089.4	1139.6	1228.2	1158.0	719.0
77.5°	58.5	59.4	67.7	81.9	113.7	174.7	597.8	660.5	775.9	684.7	362.0
80°	43.5	45.1	51.8	63.5	80.3	89.5	254.2	277.6	374.6	286.8	150.5
82.5°	31.8	33.4	40.1	46.0	56.0	56.9	103.7	109.5	160.5	116.2	65.2
85°	26.8	26.8	30.9	34.3	37.6	31.8	51.0	50.2	61.9	52.7	25.9
87.5°	12.5	13.4	29.3	21.7	18.4	13.4	15.0	15.9	19.2	20.9	10.0
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: P572973
 CATALOG NUMBER: ARCH-S-PA2-20-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2	381.2
2.5°	380.4	380.4	380.4	381.2	382.1	382.1	382.9	382.9	383.8	384.6	386.3
5°	383.8	383.8	382.9	383.8	385.4	386.3	387.9	389.6	391.3	393.0	393.8
7.5°	390.4	389.6	389.6	389.6	391.3	393.0	395.5	397.1	399.6	400.5	402.1
10°	403.0	401.3	401.3	402.1	403.0	400.5	399.6	398.8	401.3	403.0	404.7
12.5°	418.0	416.4	415.5	413.0	409.7	404.7	400.5	397.1	398.0	399.6	402.1
15°	433.9	430.6	428.9	423.1	414.7	403.8	397.1	393.0	393.0	393.0	395.5
17.5°	450.6	447.3	440.6	429.7	413.9	398.8	390.4	382.9	379.6	378.7	380.4
20°	466.5	461.5	450.6	433.9	408.8	388.8	377.9	365.4	360.3	357.0	358.7
22.5°	481.6	474.9	459.8	433.9	400.5	373.7	354.5	337.8	329.4	327.7	328.6
25°	497.5	489.1	469.0	428.9	382.1	351.1	324.4	306.8	296.0	294.3	296.8
27.5°	513.3	500.8	476.6	415.5	361.2	320.2	291.8	275.1	269.2	265.9	266.7
30°	526.7	515.0	484.1	397.1	332.8	284.3	258.3	250.8	246.6	245.0	245.0
32.5°	544.3	533.4	489.1	375.4	299.3	251.7	234.9	229.1	225.7	221.6	222.4
35°	566.0	556.0	486.6	347.8	267.5	229.9	216.5	208.2	200.7	194.8	194.0
37.5°	595.3	587.8	474.1	314.4	238.3	214.0	200.7	189.8	178.9	169.7	168.0
40°	643.8	626.2	455.7	277.6	218.2	201.5	185.6	172.2	158.9	148.8	146.3
42.5°	705.6	668.9	430.6	240.0	201.5	188.1	172.2	154.7	142.1	132.9	132.9
45°	777.5	714.8	400.5	211.5	183.9	174.7	155.5	140.5	132.9	127.1	126.2
47.5°	862.8	760.8	362.0	189.0	169.7	163.0	143.8	134.6	129.6	124.6	123.7
50°	977.4	822.7	333.6	169.7	155.5	149.7	140.5	132.9	127.9	124.6	123.7
52.5°	1108.6	902.1	313.5	154.7	143.8	141.3	139.6	133.8	128.8	126.2	125.4
55°	1250.8	999.9	294.3	142.1	134.6	138.0	141.3	135.4	132.1	128.8	127.1
57.5°	1384.5	1082.7	263.4	131.3	127.9	133.8	140.5	136.3	132.1	129.6	128.8
60°	1475.7	1124.5	220.7	121.2	121.2	127.9	138.0	132.1	127.9	128.8	128.8
62.5°	1504.9	1108.6	174.7	112.0	114.5	121.2	130.4	127.1	125.4	129.6	129.6
65°	1461.4	1044.2	139.6	104.5	107.9	112.9	126.2	129.6	134.6	143.8	144.6
67°	1347.7	940.6	117.9	98.7	102.0	110.4	131.3	143.0	143.0	153.0	153.0
67.5°	1314.3	905.5	114.5	97.0	101.2	110.4	133.8	146.3	143.0	154.7	154.7
70°	1068.5	712.3	97.0	92.0	97.8	116.2	144.6	147.1	139.6	150.5	149.7
72.5°	792.6	515.0	88.6	87.0	91.1	109.5	143.8	141.3	130.4	133.8	131.3
75°	489.9	298.5	81.9	80.3	82.8	97.0	132.9	128.8	116.2	113.7	111.2
77.5°	236.6	151.3	70.2	72.7	75.2	84.4	117.0	112.9	102.0	96.1	95.3
80°	102.8	77.8	60.2	64.4	65.2	71.9	97.0	92.0	81.9	72.7	72.7
82.5°	51.0	43.5	47.7	53.5	51.8	57.7	76.1	67.7	60.2	50.2	48.5
85°	23.4	25.1	35.1	40.1	35.1	36.0	51.8	47.7	37.6	28.4	29.3
87.5°	8.4	11.7	20.1	24.2	17.6	16.7	27.6	20.1	11.7	3.3	4.2
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)