

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: P573189

Luminaire Tested: **ARCH-S-PA2-40-827-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573189
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-PA2-40-827-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 420mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4925 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

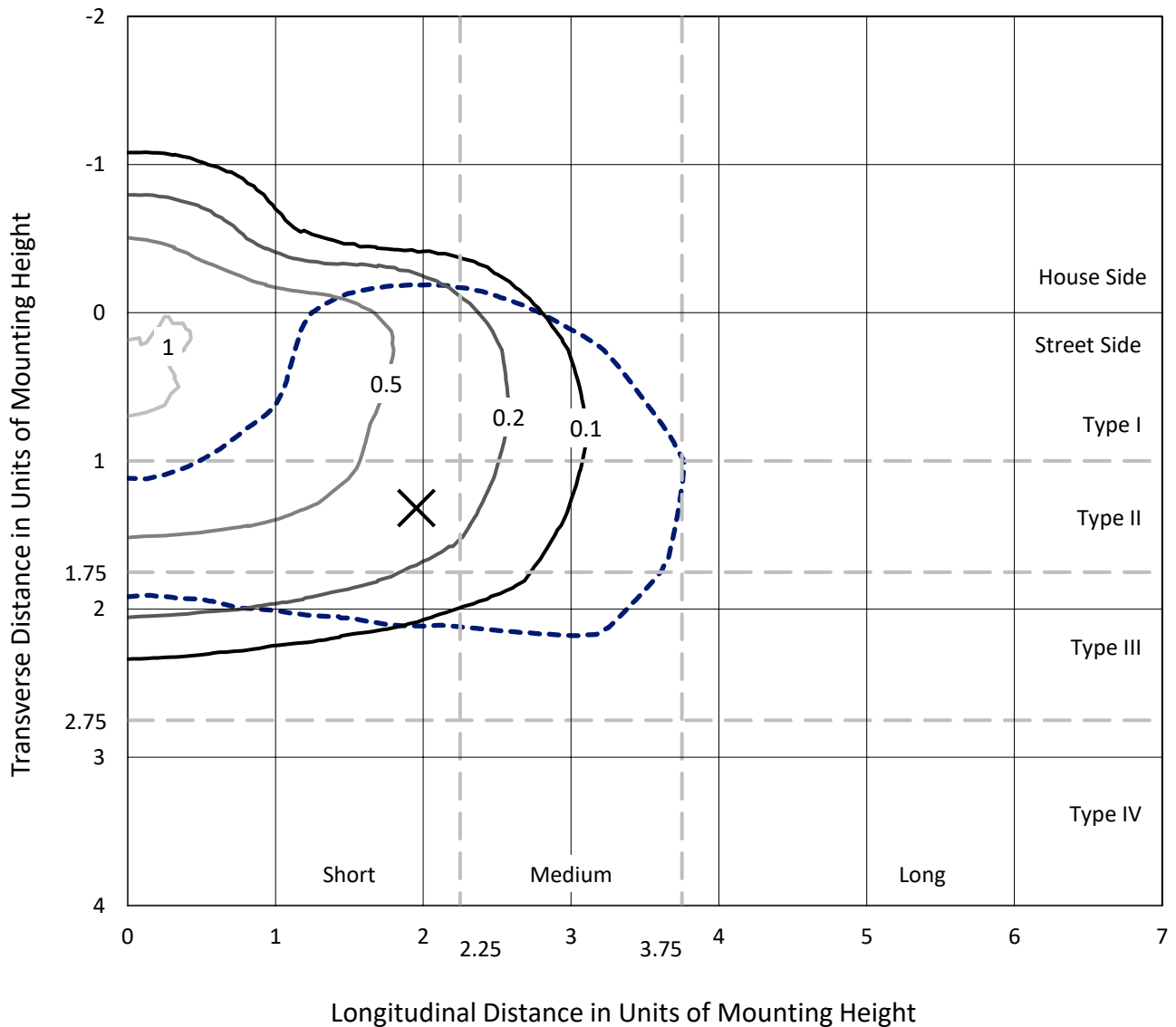
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573189
 CATALOG NUMBER: ARCH-S-PA2-40-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

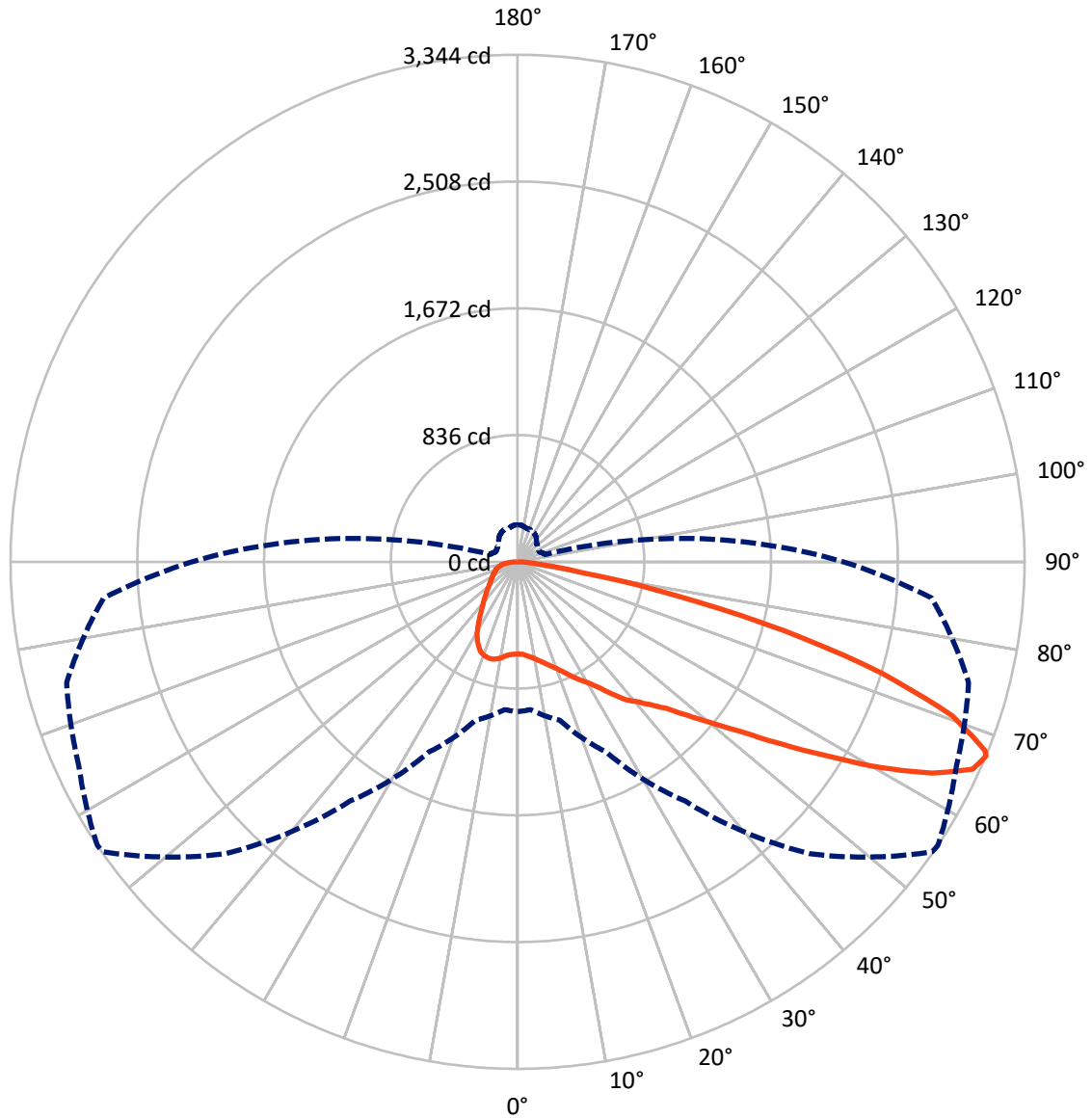
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

REPORT NUMBER: P573189
CATALOG NUMBER: ARCH-S-PA2-40-827-U-T3

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: ARCH-S-PA2-40-827-U-T3

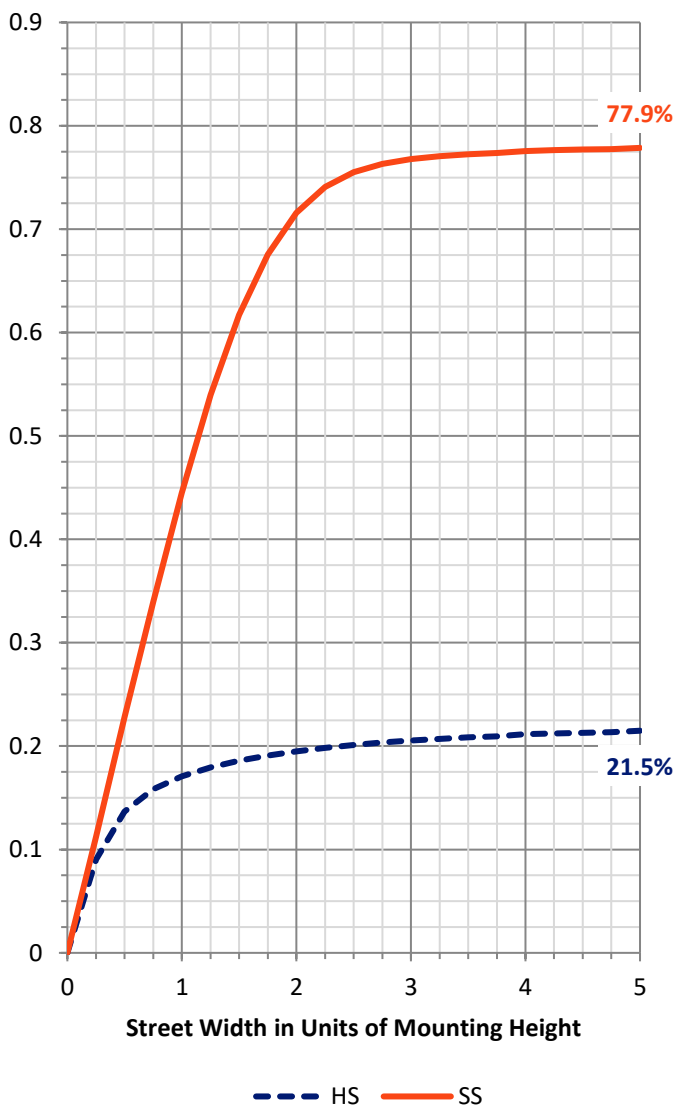
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1077.5	0.0	1077.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3847.5	0.0	3847.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	4925.0	0.0	4925.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	1.2
10°-20°	191.8	3.9
20°-30°	333.9	6.8
30°-40°	489.6	9.9
40°-50°	716.3	14.5
50°-60°	1119.4	22.7
60°-70°	1330.5	27.0
70°-80°	606.0	12.3
80°-90°	77.7	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°	4925.0	100.0
0°-180°	4925.0	100.0

Coefficient of Utilization



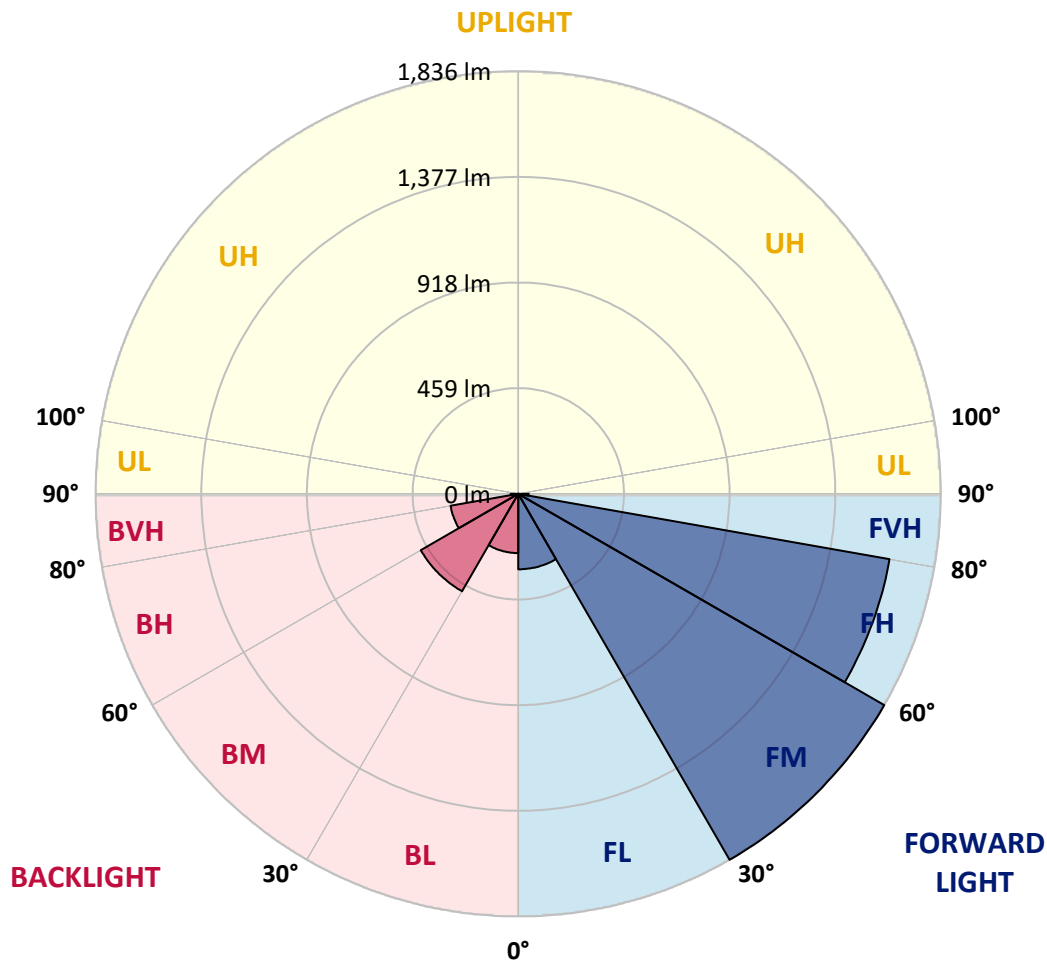
REPORT NUMBER: P573189
 CATALOG NUMBER: ARCH-S-PA2-40-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	328.0	6.7			
FM (30°-60°)	1836.2	37.3			
FH (60°-80°)	1638.0	33.3			G1/1800
FVH (80°-90°)	45.3	0.9			G1/100
BL (0°-30°)	257.5	5.2	B1/500		
BM (30°-60°)	489.1	9.9	B1/1000		
BH (60°-80°)	298.5	6.1	B1/500		G1/500
BVH (80°-90°)	32.4	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





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 CATALOG NUMBER: ARCH-S-PA2-40-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0
2.5°	617.4	614.7	613.4	614.7	613.4	610.7	612.0	610.7	609.4	608.0	608.0
5°	625.4	622.7	621.4	622.7	624.0	621.4	621.4	621.4	617.4	616.0	613.4
7.5°	630.7	626.7	626.7	629.4	632.0	633.4	636.0	634.7	630.7	628.0	622.7
10°	648.0	642.7	642.7	642.7	645.4	648.0	650.7	652.0	650.7	649.4	645.4
12.5°	674.7	669.4	669.4	669.4	669.4	668.0	672.0	673.4	676.0	676.0	669.4
15°	710.7	704.1	701.4	696.1	694.7	692.1	697.4	697.4	701.4	702.7	696.1
17.5°	745.4	737.4	734.7	729.4	724.1	717.4	722.7	724.1	732.1	733.4	722.7
20°	781.4	778.7	774.7	766.7	757.4	750.7	756.1	754.7	761.4	764.1	750.7
22.5°	828.1	821.4	818.7	808.1	797.4	790.7	790.7	793.4	800.1	800.1	780.1
25°	884.1	874.7	868.1	856.1	842.7	834.7	836.1	838.7	848.1	841.4	810.7
27.5°	953.4	944.1	934.7	910.7	897.4	881.4	880.1	882.7	897.4	880.1	840.1
30°	1018.7	1014.7	1006.7	988.1	966.7	940.1	928.1	929.4	940.1	916.1	865.4
32.5°	1074.7	1069.4	1065.4	1052.1	1037.4	1005.4	989.4	990.7	989.4	960.1	896.1
35°	1141.4	1133.4	1130.7	1118.7	1100.1	1078.7	1072.1	1069.4	1061.4	1021.4	936.1
37.5°	1205.4	1197.4	1193.4	1186.8	1172.1	1153.4	1153.4	1152.1	1136.1	1080.1	976.1
40°	1281.4	1272.1	1260.1	1256.1	1244.1	1230.8	1220.1	1213.4	1185.4	1134.7	1053.4
42.5°	1373.4	1368.1	1361.4	1344.1	1325.4	1322.8	1292.1	1289.4	1269.4	1240.1	1162.8
45°	1505.4	1494.8	1485.4	1480.1	1457.4	1433.4	1390.8	1380.1	1380.1	1373.4	1290.8
47.5°	1638.8	1620.1	1633.5	1629.5	1624.1	1597.5	1514.8	1516.1	1513.4	1530.8	1478.8
50°	1728.1	1717.5	1754.8	1772.1	1809.5	1809.5	1690.8	1676.1	1686.8	1737.5	1670.8
52.5°	1797.5	1790.8	1833.5	1901.5	2012.1	2022.8	1900.1	1869.5	1884.1	1956.1	1929.5
55°	1853.5	1846.8	1896.1	2014.8	2192.2	2257.5	2141.5	2128.2	2098.8	2176.2	2184.2
57.5°	1886.8	1872.1	1946.8	2105.5	2338.8	2489.5	2424.2	2420.2	2352.2	2424.2	2460.2
60°	1836.1	1826.8	1929.5	2142.8	2457.5	2708.2	2756.2	2756.2	2634.9	2673.5	2717.5
62.5°	1672.1	1660.1	1768.1	2056.2	2472.2	2886.9	3085.6	3069.6	2906.9	2905.5	2866.9
65°	1360.1	1345.4	1466.8	1770.8	2286.8	2908.2	3308.2	3298.9	3110.9	3057.6	2876.2
67°	988.1	978.7	1082.7	1384.1	1926.8	2722.9	3336.2	3344.2	3192.2	3078.9	2741.5
67.5°	886.7	885.4	972.1	1270.8	1821.5	2654.9	3317.6	3325.6	3190.9	3061.6	2688.2
70°	413.4	432.0	513.4	728.1	1228.1	2090.8	3010.9	3041.6	3020.2	2861.5	2264.2
72.5°	192.0	200.0	236.0	352.0	660.0	1348.1	2440.2	2513.5	2606.9	2454.8	1793.5
75°	118.7	121.3	141.3	182.7	310.7	648.0	1737.5	1817.5	1958.8	1846.8	1146.8
77.5°	93.3	94.7	108.0	130.7	181.3	278.7	953.4	1053.4	1237.4	1092.1	577.4
80°	69.3	72.0	82.7	101.3	128.0	142.7	405.4	442.7	597.4	457.4	240.0
82.5°	50.7	53.3	64.0	73.3	89.3	90.7	165.3	174.7	256.0	185.3	104.0
85°	42.7	42.7	49.3	54.7	60.0	50.7	81.3	80.0	98.7	84.0	41.3
87.5°	20.0	21.3	46.7	34.7	29.3	21.3	24.0	25.3	30.7	33.3	16.0
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: P573189
 CATALOG NUMBER: ARCH-S-PA2-40-827-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0	608.0
2.5°	606.7	606.7	606.7	608.0	609.4	609.4	610.7	610.7	612.0	613.4	616.0
5°	612.0	612.0	610.7	612.0	614.7	616.0	618.7	621.4	624.0	626.7	628.0
7.5°	622.7	621.4	621.4	621.4	624.0	626.7	630.7	633.4	637.4	638.7	641.4
10°	642.7	640.0	640.0	641.4	642.7	638.7	637.4	636.0	640.0	642.7	645.4
12.5°	666.7	664.0	662.7	658.7	653.4	645.4	638.7	633.4	634.7	637.4	641.4
15°	692.1	686.7	684.1	674.7	661.4	644.0	633.4	626.7	626.7	626.7	630.7
17.5°	718.7	713.4	702.7	685.4	660.0	636.0	622.7	610.7	605.4	604.0	606.7
20°	744.1	736.1	718.7	692.1	652.0	620.0	602.7	582.7	574.7	569.4	572.0
22.5°	768.1	757.4	733.4	692.1	638.7	596.0	565.4	538.7	525.4	522.7	524.0
25°	793.4	780.1	748.1	684.1	609.4	560.0	517.4	489.4	472.0	469.4	473.4
27.5°	818.7	798.7	760.1	662.7	576.0	510.7	465.4	438.7	429.4	424.0	425.4
30°	840.1	821.4	772.1	633.4	530.7	453.4	412.0	400.0	393.4	390.7	390.7
32.5°	868.1	850.7	780.1	598.7	477.4	401.4	374.7	365.4	360.0	353.4	354.7
35°	902.7	886.7	776.1	554.7	426.7	366.7	345.4	332.0	320.0	310.7	309.4
37.5°	949.4	937.4	756.1	501.4	380.0	341.4	320.0	302.7	285.4	270.7	268.0
40°	1026.7	998.7	726.7	442.7	348.0	321.4	296.0	274.7	253.4	237.4	233.4
42.5°	1125.4	1066.7	686.7	382.7	321.4	300.0	274.7	246.7	226.7	212.0	212.0
45°	1240.1	1140.1	638.7	337.4	293.4	278.7	248.0	224.0	212.0	202.7	201.3
47.5°	1376.1	1213.4	577.4	301.4	270.7	260.0	229.4	214.7	206.7	198.7	197.3
50°	1558.8	1312.1	532.0	270.7	248.0	238.7	224.0	212.0	204.0	198.7	197.3
52.5°	1768.1	1438.8	500.0	246.7	229.4	225.3	222.7	213.3	205.3	201.3	200.0
55°	1994.8	1594.8	469.4	226.7	214.7	220.0	225.3	216.0	210.7	205.3	202.7
57.5°	2208.2	1726.8	420.0	209.3	204.0	213.3	224.0	217.3	210.7	206.7	205.3
60°	2353.5	1793.5	352.0	193.3	193.3	204.0	220.0	210.7	204.0	205.3	205.3
62.5°	2400.2	1768.1	278.7	178.7	182.7	193.3	208.0	202.7	200.0	206.7	206.7
65°	2330.8	1665.5	222.7	166.7	172.0	180.0	201.3	206.7	214.7	229.4	230.7
67°	2149.5	1500.1	188.0	157.3	162.7	176.0	209.3	228.0	228.0	244.0	244.0
67.5°	2096.2	1444.1	182.7	154.7	161.3	176.0	213.3	233.4	228.0	246.7	246.7
70°	1704.1	1136.1	154.7	146.7	156.0	185.3	230.7	234.7	222.7	240.0	238.7
72.5°	1264.1	821.4	141.3	138.7	145.3	174.7	229.4	225.3	208.0	213.3	209.3
75°	781.4	476.0	130.7	128.0	132.0	154.7	212.0	205.3	185.3	181.3	177.3
77.5°	377.4	241.4	112.0	116.0	120.0	134.7	186.7	180.0	162.7	153.3	152.0
80°	164.0	124.0	96.0	102.7	104.0	114.7	154.7	146.7	130.7	116.0	116.0
82.5°	81.3	69.3	76.0	85.3	82.7	92.0	121.3	108.0	96.0	80.0	77.3
85°	37.3	40.0	56.0	64.0	56.0	57.3	82.7	76.0	60.0	45.3	46.7
87.5°	13.3	18.7	32.0	38.7	28.0	26.7	44.0	32.0	18.7	5.3	6.7
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)