

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: P573455

Luminaire Tested: **ARCH-S-PA2-80-727-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-80-727-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9931 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

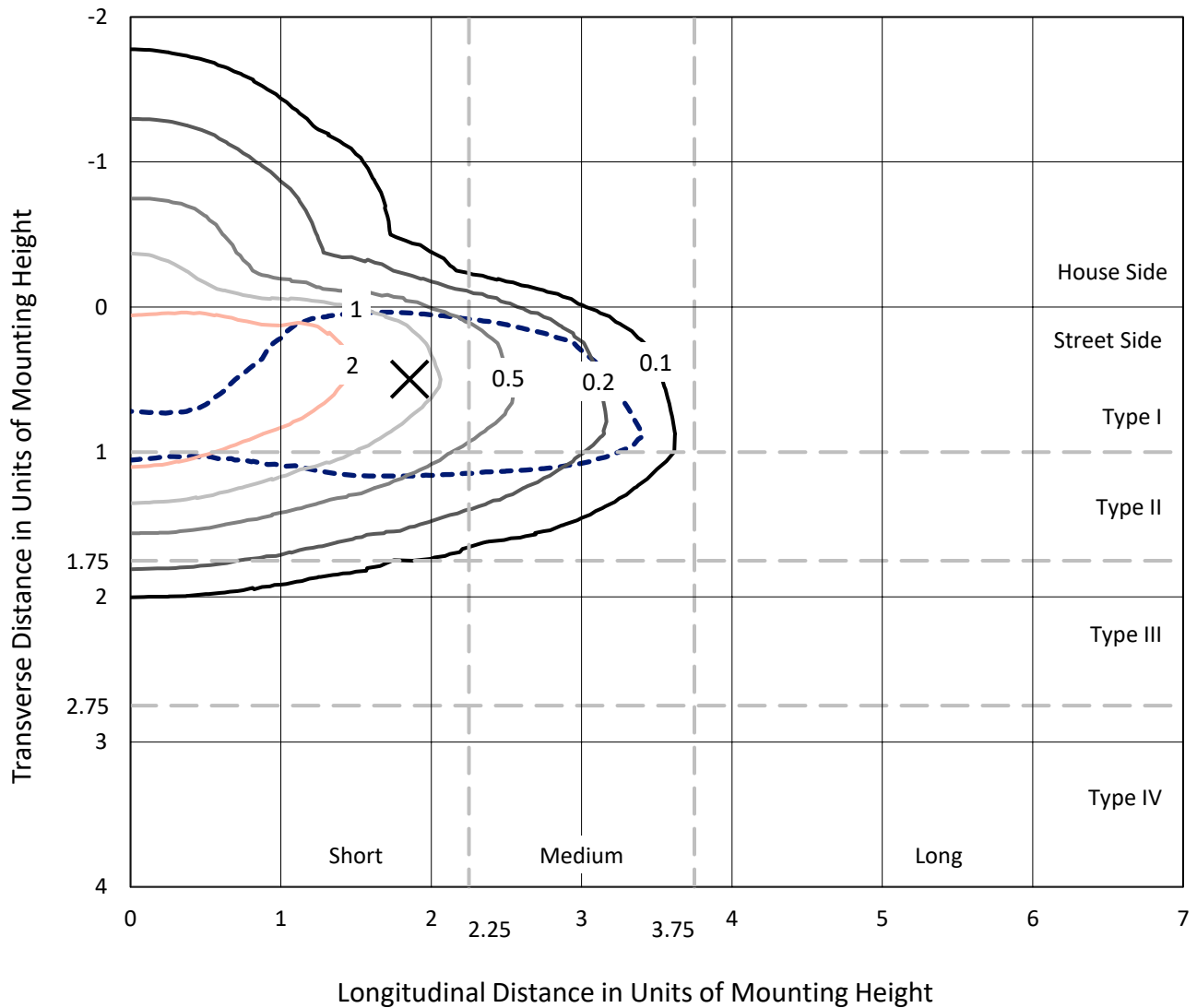
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

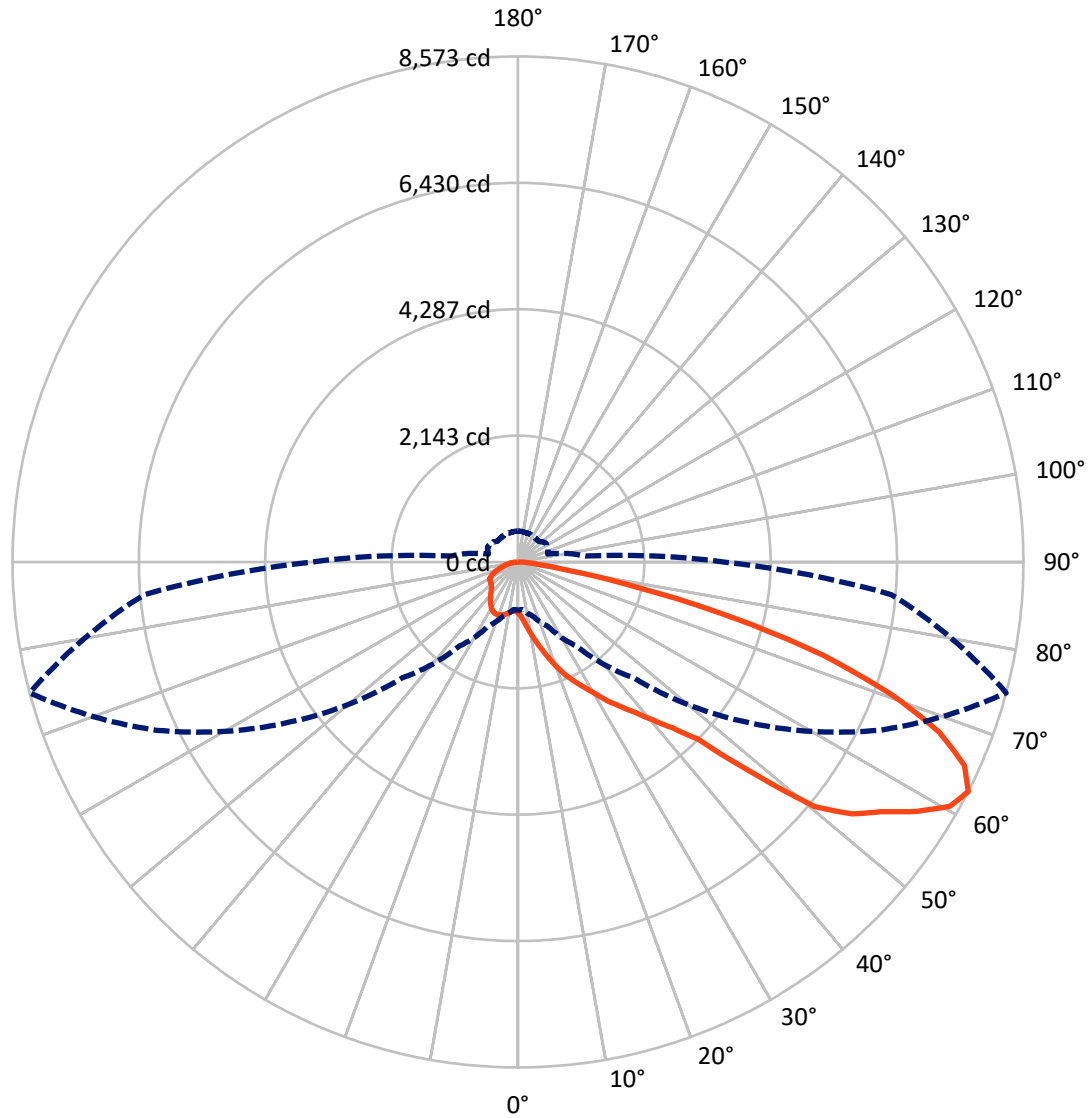
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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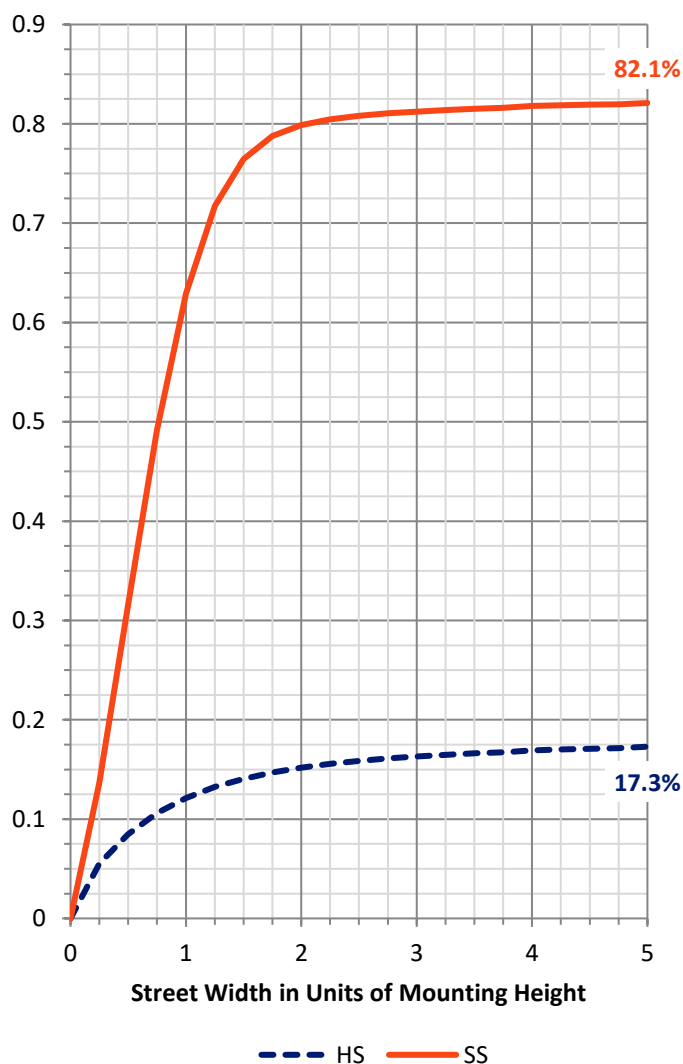
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1751.5	0.0	1751.5
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	8179.4	0.0	8179.4
	% Fixture	82.4	0.0	82.4
Total	Lumens	9931.0	0.0	9931.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	1.0
10°-20°	410.9	4.1
20°-30°	813.0	8.2
30°-40°	1355.2	13.6
40°-50°	1999.7	20.1
50°-60°	2403.8	24.2
60°-70°	1868.3	18.8
70°-80°	826.5	8.3
80°-90°	149.6	1.5
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°	9931.0	100.0
0°-180°	9931.0	100.0

Coefficient of Utilization

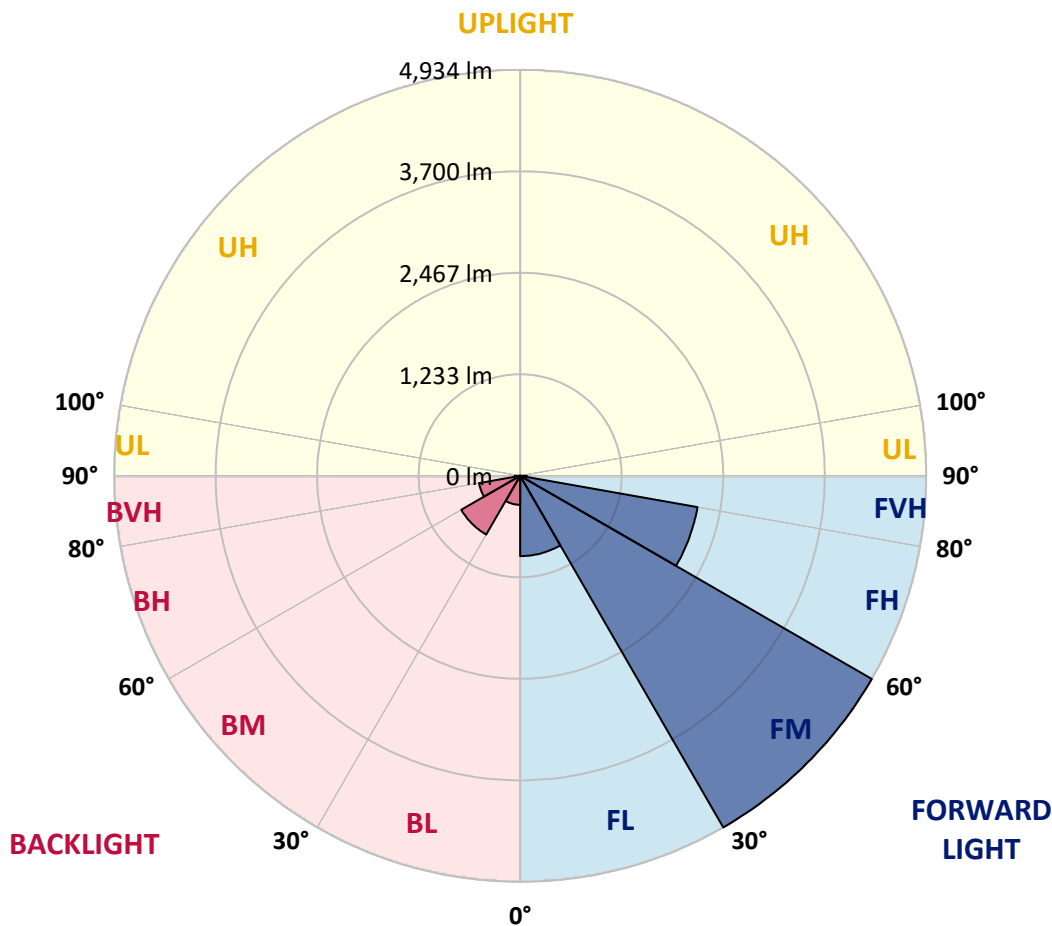


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	975.5	9.8			
FM (30°-60°)	4933.7	49.7			
FH (60°-80°)	2188.0	22.0			G2/5000
FVH (80°-90°)	82.2	0.8			G1/100
BL (0°-30°)	352.4	3.5	B1/500		
BM (30°-60°)	824.9	8.3	B1/1000		
BH (60°-80°)	506.8	5.1	B2/1000		G2/1000
BVH (80°-90°)	67.4	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7
2.5°	1106.9	1074.7	1074.7	1039.9	1042.5	1013.1	980.9	948.7	913.9	887.1	873.7
5°	1447.2	1423.1	1415.1	1374.9	1310.5	1238.2	1160.5	1080.1	997.0	932.7	900.5
7.5°	1766.1	1747.4	1736.7	1691.1	1602.7	1524.9	1401.7	1254.3	1112.2	991.6	943.4
10°	2002.0	1988.6	1967.1	1945.7	1881.4	1814.4	1661.6	1452.6	1243.5	1064.0	991.6
12.5°	2173.5	2154.8	2154.8	2152.1	2109.2	2047.6	1905.5	1680.4	1396.3	1144.4	1045.2
15°	2288.8	2286.1	2294.1	2310.2	2299.5	2259.3	2117.2	1889.4	1551.7	1235.5	1106.9
17.5°	2374.5	2363.8	2379.9	2422.8	2454.9	2438.8	2320.9	2090.4	1723.3	1334.7	1173.9
20°	2468.3	2446.9	2468.3	2521.9	2562.1	2586.2	2530.0	2283.4	1908.2	1441.9	1238.2
22.5°	2647.9	2645.2	2634.5	2650.6	2677.4	2720.2	2688.1	2479.0	2087.8	1549.1	1313.2
25°	2969.5	2940.0	2910.5	2875.7	2846.2	2859.6	2832.8	2661.3	2251.2	1667.0	1377.5
27.5°	3328.6	3296.4	3242.8	3157.1	3076.7	3028.4	2972.2	2819.4	2409.4	1774.2	1439.2
30°	3658.3	3647.5	3567.1	3473.3	3334.0	3245.5	3138.3	3001.6	2599.6	1892.1	1503.5
32.5°	3966.5	3945.0	3864.6	3765.5	3602.0	3502.8	3355.4	3200.0	2816.7	2036.8	1570.5
35°	4231.8	4210.3	4116.5	3990.6	3848.5	3762.8	3593.9	3376.9	3015.0	2162.8	1626.8
37.5°	4432.8	4408.7	4320.2	4196.9	4071.0	4030.8	3886.1	3602.0	3240.2	2320.9	1696.5
40°	4545.3	4515.9	4456.9	4371.1	4266.6	4247.9	4186.2	3880.7	3524.3	2513.9	1798.3
42.5°	4558.7	4531.9	4499.8	4491.7	4483.7	4499.8	4529.3	4196.9	3848.5	2771.2	1948.4
45°	4440.8	4424.7	4427.4	4518.5	4644.5	4791.9	4968.8	4663.3	4285.4	3261.6	2286.1
47.5°	4188.9	4180.9	4239.8	4392.6	4674.0	5009.0	5510.2	5461.9	5319.9	4052.2	2720.2
50°	3781.5	3768.1	3894.1	4135.3	4537.3	5081.4	5874.6	6402.6	6520.5	4665.9	3004.3
52.5°	3197.3	3213.4	3409.0	3738.7	4223.7	5003.6	6024.7	6788.5	7099.4	5118.9	3221.4
55°	2599.6	2575.5	2752.4	3159.8	3760.1	4719.6	6054.2	7011.0	7474.6	5537.0	3433.1
57.5°	1894.8	1953.7	2141.4	2511.2	3162.4	4205.0	5882.7	7163.7	7978.5	5955.0	3628.8
60°	1283.7	1283.7	1449.9	1819.7	2444.2	3580.5	5424.4	7107.5	8418.0	6282.0	3671.7
62.5°	817.4	809.4	943.4	1206.0	1750.1	2781.9	4738.3	6753.7	8573.4	6359.7	3492.1
65°	517.2	528.0	576.2	737.0	1120.3	1975.2	3803.0	6048.9	8318.8	6180.2	3178.5
67.5°	415.4	418.1	442.2	509.2	688.8	1267.7	2819.4	5076.0	7710.5	5727.2	2811.4
70°	367.2	372.5	377.9	402.0	471.7	801.3	1851.9	4087.1	6713.5	4939.3	2417.4
72.5°	335.0	340.4	345.7	351.1	388.6	522.6	1093.5	3098.1	5416.4	3794.9	1843.9
75°	308.2	313.6	313.6	316.2	337.7	388.6	600.3	2136.0	3770.8	2361.1	1149.7
77.5°	276.0	278.7	278.7	284.1	305.5	305.5	372.5	1321.3	2093.1	1069.3	581.6
80°	233.2	238.5	238.5	246.6	268.0	235.8	249.2	675.4	868.3	439.5	260.0
82.5°	171.5	182.2	187.6	201.0	214.4	179.6	179.6	340.4	367.2	195.6	139.4
85°	93.8	96.5	139.4	150.1	158.1	107.2	120.6	168.8	182.2	85.8	69.7
87.5°	26.8	29.5	67.0	83.1	75.0	45.6	50.9	64.3	64.3	24.1	18.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7	865.7
2.5°	863.0	841.5	822.8	809.4	796.0	787.9	785.3	779.9	779.9	782.6
5°	873.7	836.2	806.7	790.6	779.9	774.5	771.9	771.9	774.5	774.5
7.5°	900.5	844.2	817.4	804.0	793.3	787.9	787.9	785.3	787.9	787.9
10°	938.0	868.3	838.9	822.8	814.7	806.7	804.0	801.3	801.3	801.3
12.5°	978.2	895.1	863.0	844.2	830.8	820.1	814.7	809.4	806.7	806.7
15°	1015.7	921.9	879.1	857.6	838.9	822.8	812.1	804.0	801.3	801.3
17.5°	1055.9	940.7	889.8	860.3	836.2	814.7	801.3	790.6	785.3	785.3
20°	1098.8	954.1	889.8	852.3	820.1	798.7	782.6	771.9	761.1	761.1
22.5°	1133.7	959.5	879.1	833.5	801.3	774.5	758.5	745.1	737.0	737.0
25°	1163.1	954.1	854.9	804.0	766.5	742.4	726.3	715.6	707.5	707.5
27.5°	1181.9	932.7	825.5	771.9	737.0	712.9	702.2	691.5	686.1	686.1
30°	1192.6	905.9	787.9	737.0	702.2	688.8	683.4	672.7	664.6	662.0
32.5°	1198.0	865.7	750.4	702.2	678.1	672.7	672.7	659.3	648.6	645.9
35°	1192.6	822.8	712.9	672.7	664.6	667.3	662.0	645.9	632.5	627.1
37.5°	1184.6	771.9	672.7	651.2	659.3	664.6	648.6	627.1	605.7	600.3
40°	1179.2	726.3	640.5	629.8	653.9	656.6	627.1	586.9	570.8	565.5
42.5°	1206.0	680.7	611.0	613.7	640.5	643.2	589.6	570.8	560.1	557.4
45°	1297.1	640.5	586.9	603.0	624.4	613.7	570.8	568.2	560.1	557.4
47.5°	1366.8	611.0	576.2	595.0	611.0	573.5	568.2	565.5	557.4	554.8
50°	1390.9	592.3	573.5	589.6	592.3	554.8	562.8	562.8	554.8	552.1
52.5°	1393.6	581.6	578.9	586.9	562.8	546.7	557.4	557.4	549.4	546.7
55°	1404.3	576.2	581.6	586.9	530.6	536.0	546.7	549.4	541.4	538.7
57.5°	1382.9	568.2	586.9	589.6	517.2	525.3	536.0	536.0	536.0	536.0
60°	1299.8	552.1	584.2	584.2	506.5	511.9	522.6	528.0	530.6	530.6
62.5°	1147.1	519.9	568.2	568.2	495.8	501.2	514.6	514.6	522.6	522.6
65°	954.1	474.4	536.0	533.3	485.1	490.4	506.5	501.2	514.6	517.2
67.5°	796.0	418.1	487.8	493.1	474.4	487.8	498.5	479.7	506.5	506.5
70°	635.2	351.1	423.4	447.6	455.6	490.4	482.4	452.9	487.8	479.7
72.5°	493.1	297.5	348.4	391.3	434.2	487.8	447.6	415.4	436.8	423.4
75°	359.1	246.6	286.8	324.3	404.7	479.7	412.7	364.5	364.5	359.1
77.5°	251.9	201.0	230.5	257.3	375.2	458.3	369.8	313.6	300.2	297.5
80°	171.5	158.1	182.2	198.3	332.3	415.4	318.9	260.0	235.8	230.5
82.5°	112.6	112.6	123.3	134.0	257.3	345.7	249.2	193.0	249.2	238.5
85°	64.3	67.0	67.0	77.7	142.0	243.9	176.9	193.0	115.2	107.2
87.5°	21.4	21.4	21.4	21.4	29.5	99.2	75.0	69.7	26.8	24.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)