

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: P397537

Luminaire Tested: **ARCH-S-PA1-100-727-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-100-727-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9909 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

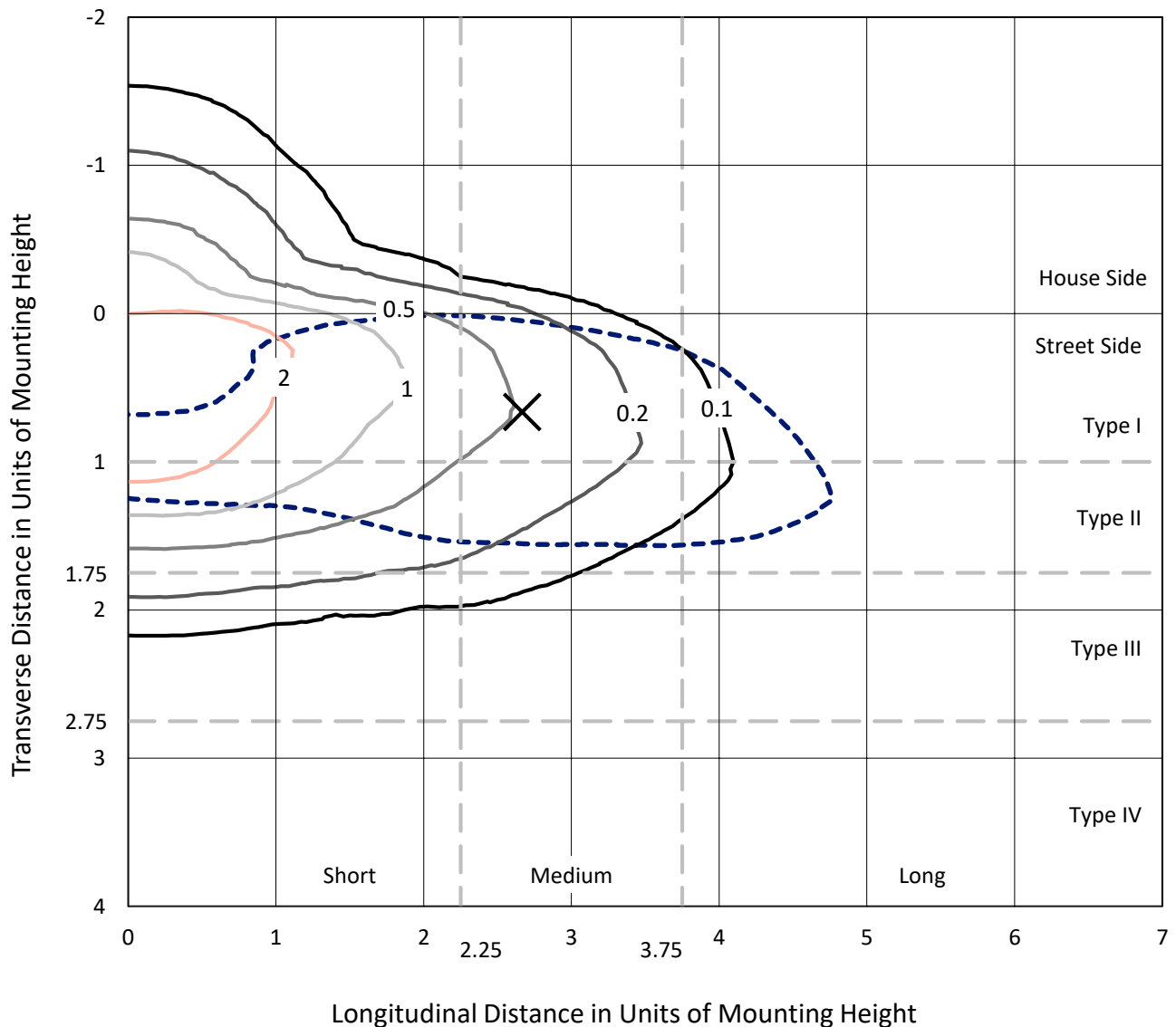
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

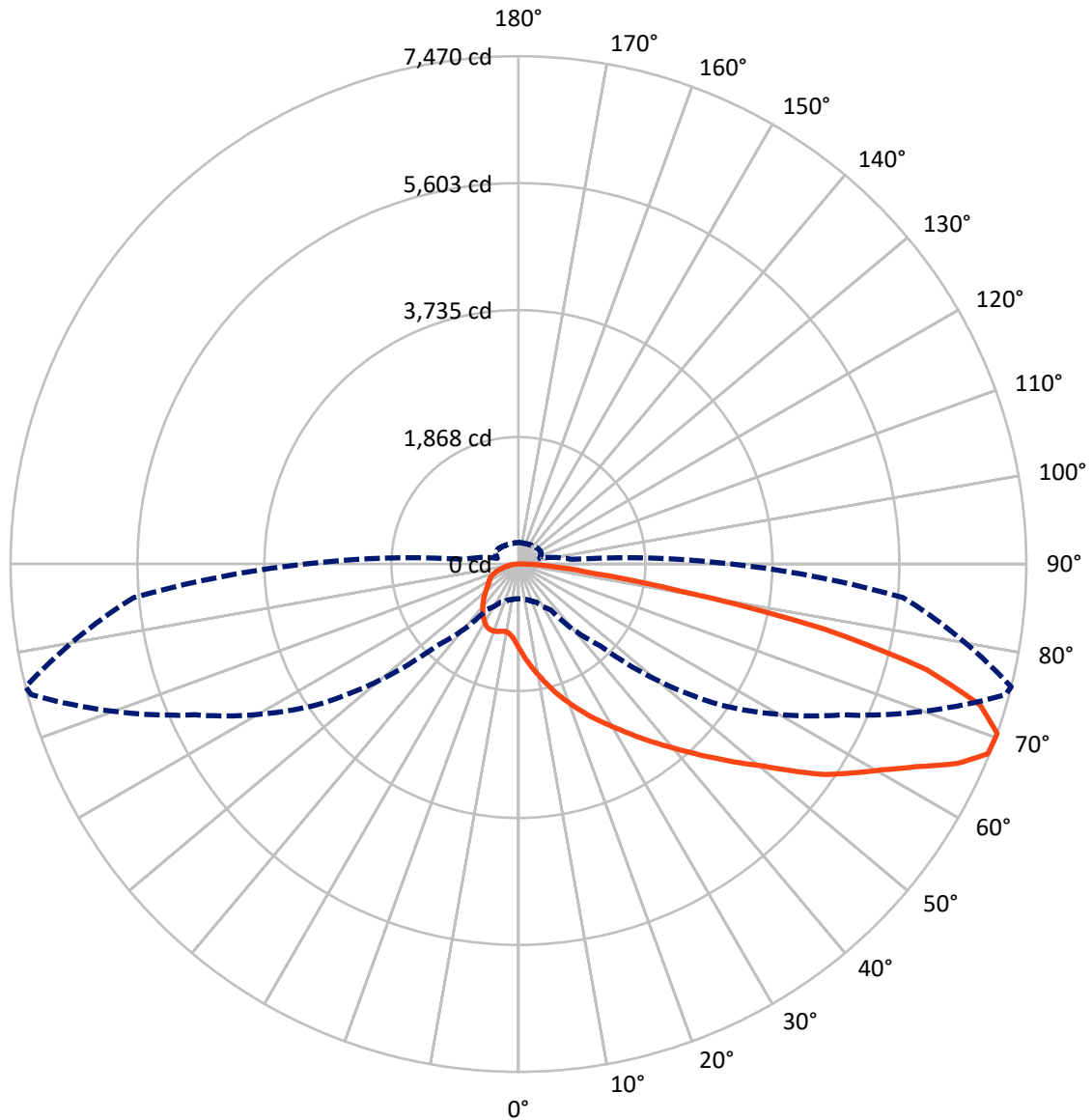


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1617.7	0.0	1617.7
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	8291.2	0.0	8291.2
	% Fixture	83.7	0.0	83.7
Total	Lumens	9909.0	0.0	9909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	1.3
10°-20°	437.6	4.4
20°-30°	782.9	7.9
30°-40°	1266.5	12.8
40°-50°	1832.1	18.5
50°-60°	2097.0	21.2
60°-70°	1929.0	19.5
70°-80°	1192.9	12.0
80°-90°	242.2	2.4
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°	9909.0	100.0
0°-180°	9909.0	100.0

Coefficient of Utilization



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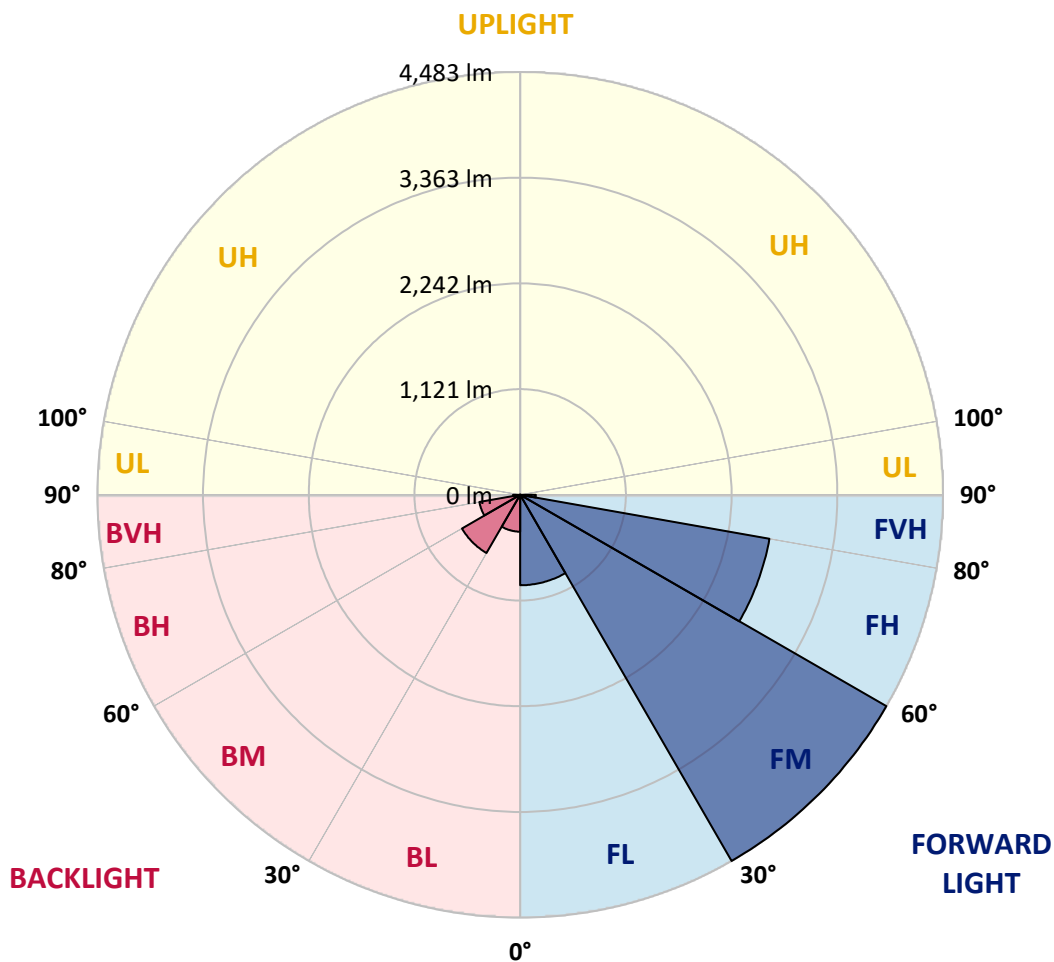
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	958.5	9.7			
FM (30°-60°)	4483.3	45.2			
FH (60°-80°)	2683.1	27.1			G2/5000
FVH (80°-90°)	166.3	1.7			G2/225
BL (0°-30°)	390.7	3.9	B1/500		
BM (30°-60°)	712.3	7.2	B1/1000		
BH (60°-80°)	438.8	4.4	B1/500		G1/500
BVH (80°-90°)	75.9	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1579.2	1567.5	1566.2	1548.0	1531.0	1485.4	1452.9	1395.5	1338.2	1336.9	1279.6
5°	1825.5	1813.8	1807.3	1785.1	1756.5	1696.5	1637.9	1549.3	1451.6	1445.0	1336.9
7.5°	1992.3	1981.9	1968.8	1959.7	1932.4	1878.9	1807.3	1701.7	1567.5	1554.5	1403.3
10°	2104.4	2097.8	2095.2	2088.7	2071.8	2028.8	1959.7	1847.7	1683.5	1669.2	1473.7
12.5°	2152.6	2150.0	2161.7	2179.9	2186.5	2169.5	2103.1	1997.5	1811.2	1795.5	1558.4
15°	2096.5	2099.1	2129.1	2191.7	2258.1	2294.6	2255.5	2152.6	1955.8	1933.7	1657.4
17.5°	2070.5	2074.4	2095.2	2155.2	2249.0	2362.4	2380.6	2299.8	2095.2	2064.0	1761.7
20°	2116.1	2121.3	2136.9	2183.8	2249.0	2370.2	2465.3	2440.5	2232.1	2199.5	1862.0
22.5°	2232.1	2238.6	2237.3	2267.2	2311.5	2394.9	2512.2	2573.4	2375.4	2338.9	1966.2
25°	2479.6	2474.4	2430.1	2415.8	2427.5	2480.9	2574.7	2701.1	2525.2	2488.7	2075.7
27.5°	2815.8	2809.3	2728.5	2655.5	2590.4	2613.8	2663.4	2804.1	2677.7	2636.0	2179.9
30°	3175.4	3167.6	3073.8	2955.2	2810.6	2776.7	2770.2	2894.0	2831.4	2787.1	2290.7
32.5°	3525.9	3519.4	3419.1	3281.0	3081.6	2980.0	2917.4	2994.3	3006.0	2963.0	2411.9
35°	3845.2	3845.2	3759.2	3595.0	3369.6	3215.8	3112.9	3118.1	3206.7	3157.2	2550.0
37.5°	4129.2	4127.9	4034.1	3872.5	3656.2	3480.3	3352.6	3267.9	3398.3	3355.3	2694.6
40°	4354.7	4345.5	4276.5	4135.8	3918.2	3743.5	3614.6	3443.9	3611.9	3572.9	2848.4
42.5°	4518.8	4513.6	4466.7	4344.2	4137.1	3972.9	3884.3	3665.4	3854.3	3815.2	3028.2
45°	4582.7	4593.1	4593.1	4477.1	4313.0	4163.1	4124.0	3909.0	4116.2	4077.1	3221.0
47.5°	4479.7	4507.1	4563.1	4571.0	4426.3	4324.7	4337.7	4154.0	4385.9	4365.1	3432.1
50°	4157.9	4208.7	4331.2	4552.7	4471.9	4448.5	4520.1	4404.2	4675.2	4668.7	3688.8
52.5°	3327.9	3451.7	3833.5	4230.9	4440.7	4505.8	4701.3	4685.6	5047.9	5058.3	4023.7
55°	2552.6	2599.5	3041.2	3717.5	4249.1	4487.6	4822.4	4960.6	5451.8	5464.8	4331.2
57.5°	2064.0	2095.2	2336.3	3041.2	3812.6	4388.5	4917.6	5120.8	5761.9	5795.8	4604.8
60°	1635.3	1680.9	1842.5	2327.2	3201.5	4150.1	4984.0	5299.3	6095.5	6146.3	4931.9
62.5°	1215.7	1237.9	1390.3	1723.9	2534.4	3721.4	4948.8	5493.5	6504.6	6565.9	5325.4
65°	865.2	884.7	992.9	1226.1	1873.7	3141.6	4744.3	5638.1	7018.0	7080.6	5721.5
67.5°	647.6	655.4	716.7	857.4	1262.6	2440.5	4329.9	5613.4	7393.3	7449.3	5880.5
70°	512.1	514.7	544.7	620.2	820.9	1699.1	3604.1	5249.8	7420.6	7470.2	5679.8
72.5°	424.8	423.5	440.4	476.9	572.0	1075.0	2669.9	4574.9	7068.8	7102.7	5119.5
75°	350.5	353.1	364.8	385.7	436.5	708.8	1730.4	3649.7	6236.2	6199.7	4296.0
77.5°	294.5	293.2	298.4	316.6	353.1	509.5	1013.7	2637.3	4621.8	4603.5	2819.7
80°	237.1	239.8	247.6	263.2	297.1	388.3	599.4	1645.7	2479.6	2413.2	1347.3
82.5°	159.0	183.7	199.4	217.6	256.7	286.7	380.5	836.5	1108.9	1091.9	611.1
85°	75.6	100.3	148.5	169.4	208.5	179.8	258.0	398.7	555.1	548.6	220.2
87.5°	15.6	15.6	79.5	95.1	129.0	76.9	143.3	173.3	268.4	251.5	89.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2	1239.2
2.5°	1245.7	1210.5	1140.1	1084.1	1026.8	994.2	953.8	934.3	930.3	919.9	927.7
5°	1267.8	1198.8	1065.9	978.6	919.9	891.3	876.9	871.7	870.4	867.8	867.8
7.5°	1297.8	1192.3	1019.0	930.3	892.6	883.4	887.4	895.2	896.5	899.1	897.8
10°	1334.3	1193.6	992.9	918.6	900.4	901.7	914.7	925.1	930.3	934.3	933.0
12.5°	1385.1	1209.2	989.0	926.4	918.6	923.8	936.9	947.3	952.5	953.8	953.8
15°	1451.6	1241.8	998.1	943.4	936.9	940.8	948.6	952.5	953.8	952.5	952.5
17.5°	1524.5	1280.9	1011.1	953.8	943.4	939.5	936.9	933.0	925.1	919.9	919.9
20°	1594.9	1316.0	1017.7	952.5	934.3	918.6	903.0	883.4	870.4	860.0	860.0
22.5°	1665.2	1348.6	1017.7	938.2	909.5	879.5	847.0	815.7	796.1	783.1	783.1
25°	1739.5	1379.9	1009.8	913.4	870.4	827.4	783.1	744.0	724.5	711.4	708.8
27.5°	1802.1	1398.1	989.0	878.2	822.2	767.5	716.7	676.3	661.9	650.2	650.2
30°	1868.5	1409.9	949.9	832.6	767.5	704.9	652.8	620.2	604.6	587.7	586.4
32.5°	1942.8	1417.7	905.6	784.4	711.4	645.0	600.7	574.6	540.7	522.5	519.9
35°	2028.8	1428.1	858.7	729.7	655.4	595.5	569.4	526.4	493.8	478.2	476.9
37.5°	2120.0	1435.9	807.9	681.5	604.6	562.9	536.8	486.0	457.4	433.9	431.3
40°	2216.4	1435.9	755.7	634.6	564.2	548.6	499.1	453.4	405.2	393.5	390.9
42.5°	2323.3	1433.3	703.6	589.0	526.4	516.0	476.9	428.7	403.9	393.5	390.9
45°	2436.6	1424.2	654.1	536.8	487.3	466.5	436.5	423.5	413.1	413.1	413.1
47.5°	2565.6	1416.4	598.1	489.9	458.7	435.2	413.1	405.2	403.9	407.8	411.8
50°	2731.1	1413.8	551.2	456.1	436.5	409.1	406.5	400.0	401.3	401.3	401.3
52.5°	2931.8	1390.3	506.9	431.3	414.4	381.8	389.6	396.1	398.7	397.4	396.1
55°	3079.0	1348.6	469.1	414.4	398.7	371.4	381.8	392.2	394.8	390.9	390.9
57.5°	3211.9	1290.0	439.1	401.3	388.3	364.8	376.6	387.0	384.4	383.1	381.8
60°	3364.4	1234.0	415.7	394.8	377.9	362.2	372.7	379.2	375.3	372.7	371.4
62.5°	3529.9	1179.2	398.7	394.8	370.1	360.9	368.8	371.4	363.5	360.9	360.9
65°	3606.7	1093.2	380.5	394.8	366.1	358.3	360.9	358.3	350.5	350.5	349.2
67.5°	3480.3	951.2	357.0	389.6	371.4	354.4	349.2	345.3	336.2	336.2	333.6
70°	3131.1	781.8	323.1	372.7	372.7	353.1	333.6	324.4	314.0	317.9	312.7
72.5°	2675.1	620.2	281.5	344.0	364.8	351.8	316.6	302.3	293.2	297.1	289.3
75°	2166.9	480.8	231.9	298.4	345.3	345.3	299.7	280.1	269.7	269.7	260.6
77.5°	1381.2	355.7	188.9	247.6	310.1	336.2	285.4	255.4	239.8	235.8	229.3
80°	684.1	250.2	155.1	196.8	264.5	315.3	274.9	226.7	204.6	196.8	185.0
82.5°	363.5	173.3	123.8	153.8	211.1	284.1	261.9	195.5	168.1	156.4	143.3
85°	162.9	106.8	99.0	117.3	160.3	233.2	235.8	160.3	129.0	153.8	113.4
87.5°	59.9	48.2	48.2	59.9	92.5	97.7	166.8	102.9	82.1	56.0	44.3
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)