

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: P348539

Luminaire Tested: **ARCH-N-PA1-60-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-60-730-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7018 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

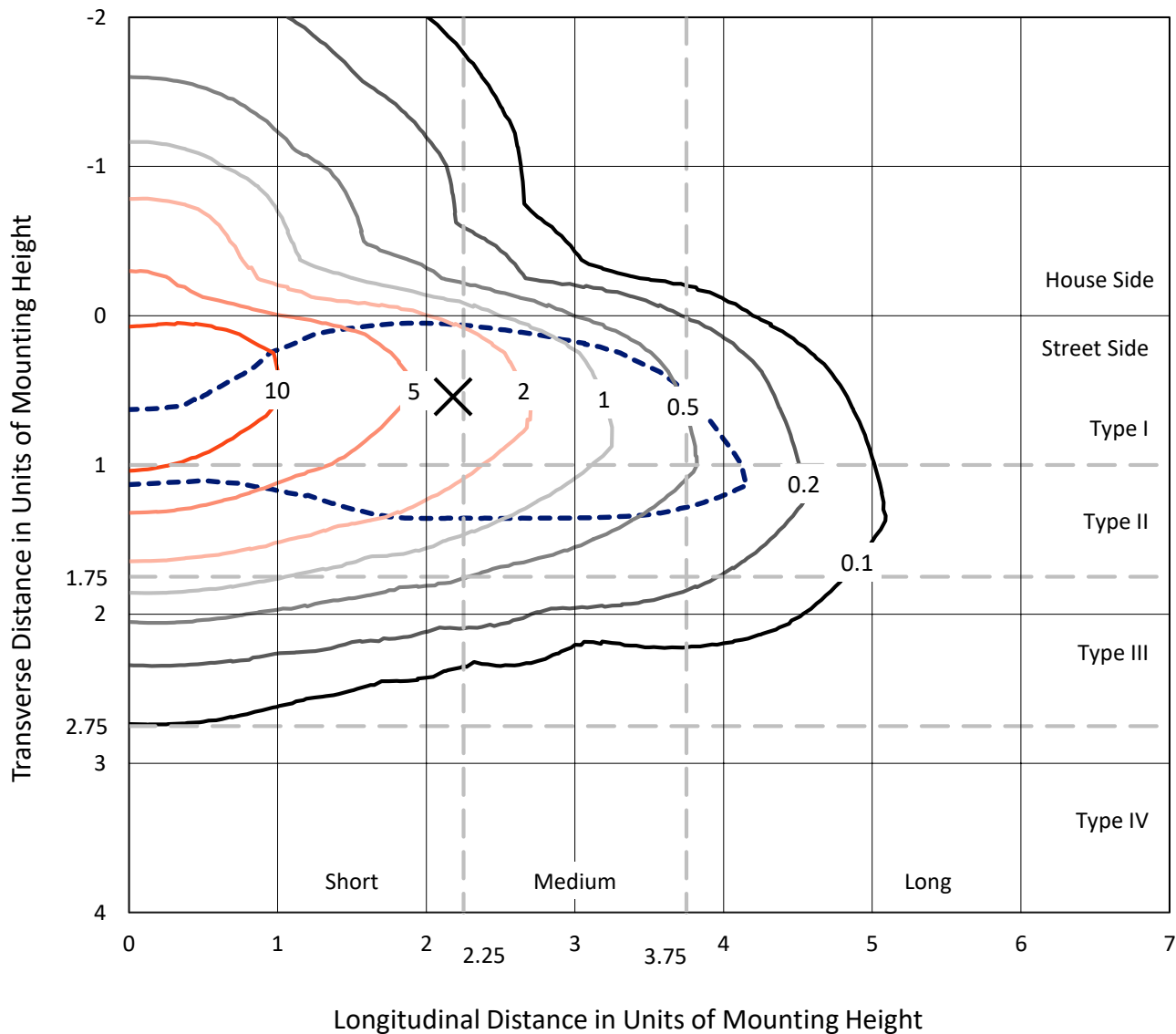
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

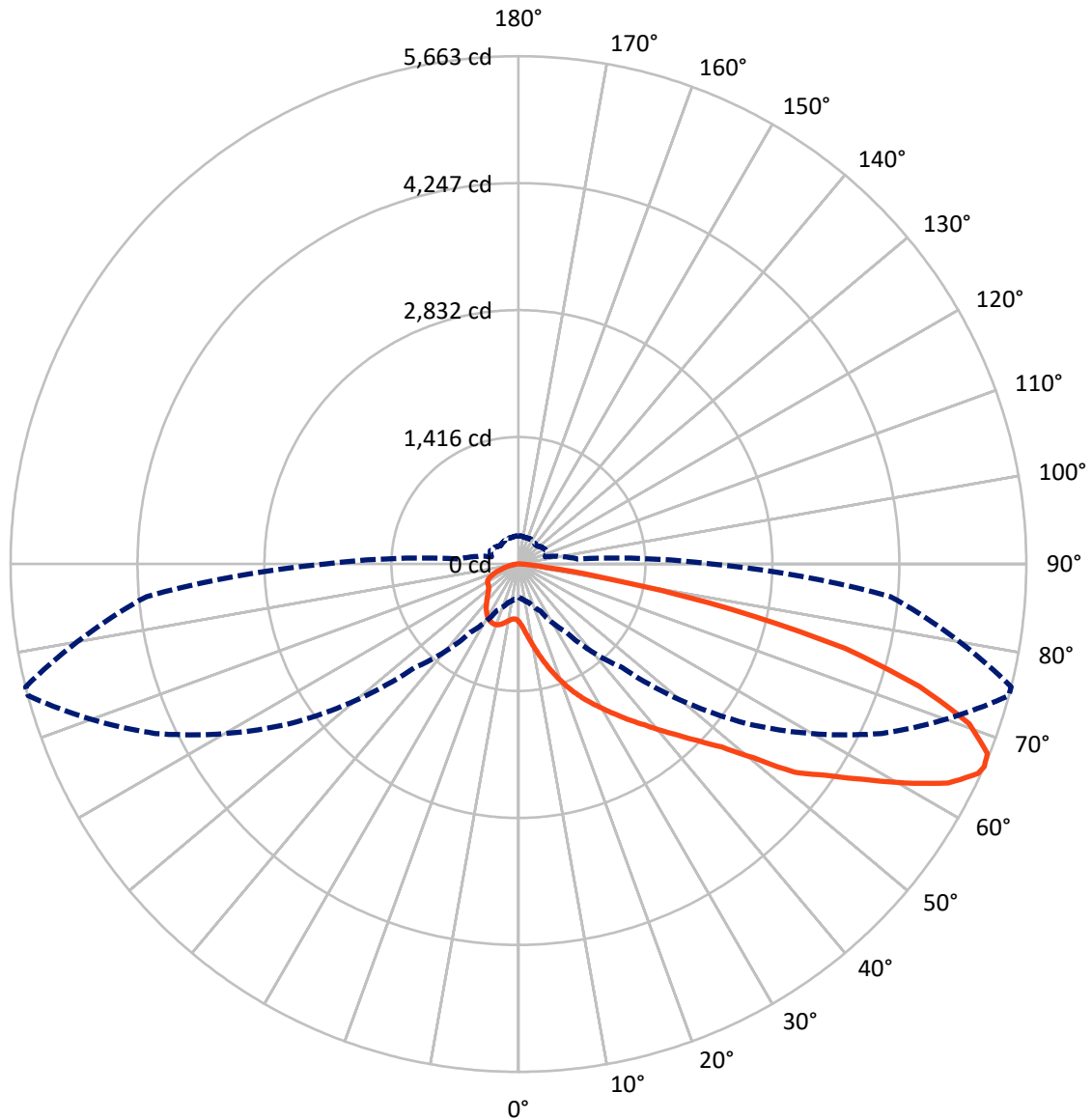
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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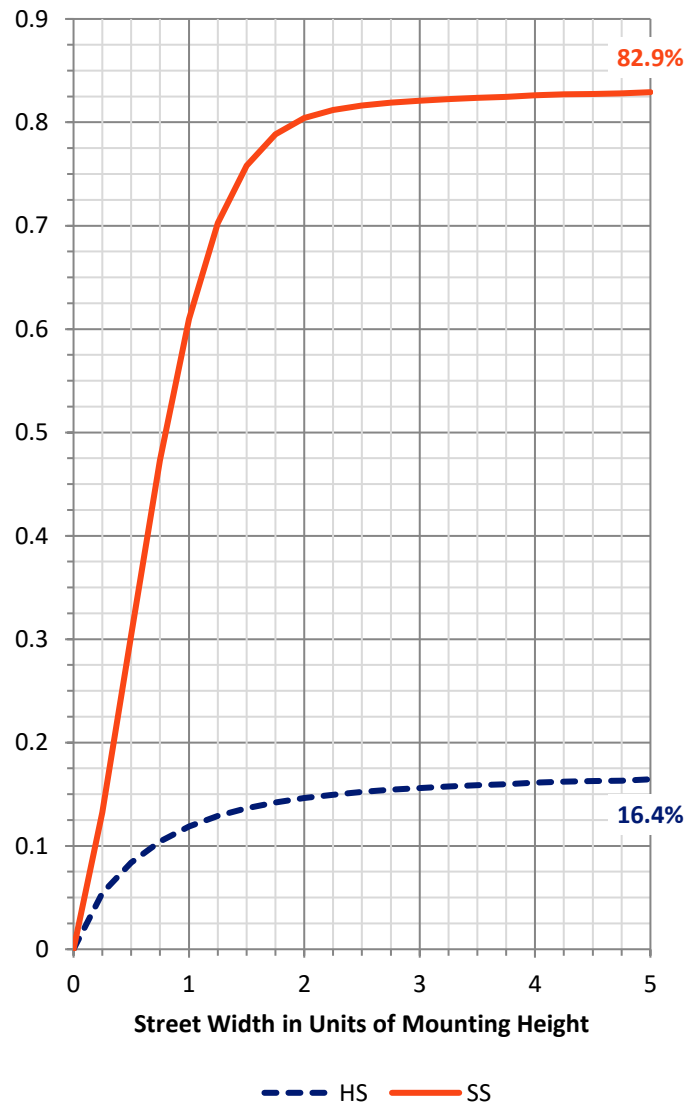
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1180.9	0.0	1180.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	5837.1	0.0	5837.1
	% Fixture	83.2	0.0	83.2
Total	Lumens	7018.0	0.0	7018.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	1.1
10°-20°	306.1	4.4
20°-30°	594.7	8.5
30°-40°	970.7	13.8
40°-50°	1326.3	18.9
50°-60°	1544.8	22.0
60°-70°	1385.0	19.7
70°-80°	699.9	10.0
80°-90°	113.0	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°	7018.0	100.0
0°-180°	7018.0	100.0

Coefficient of Utilization



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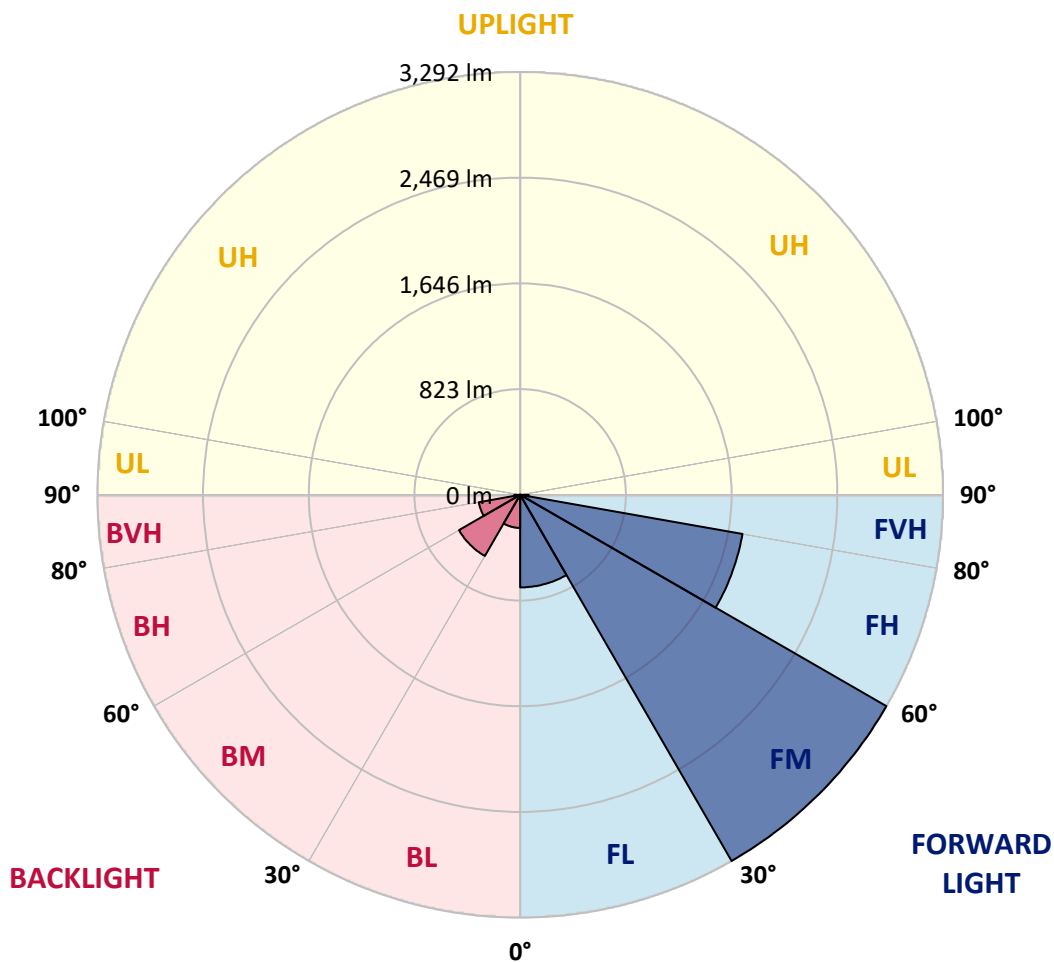
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	720.7	10.3			
FM (30°-60°)	3291.9	46.9			
FH (60°-80°)	1757.7	25.0			G1/1800
FVH (80°-90°)	66.8	1.0			G1/100
BL (0°-30°)	257.6	3.7	B1/500		
BM (30°-60°)	549.9	7.8	B1/1000		
BH (60°-80°)	327.2	4.7	B1/500		G1/500
BVH (80°-90°)	46.3	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9
2.5°	850.8	837.9	836.7	817.9	813.6	777.7	751.2	723.6	692.1	685.9	661.2
5°	1092.9	1091.7	1075.2	1044.5	1020.4	959.0	898.2	833.9	763.4	751.9	696.2
7.5°	1310.6	1308.7	1296.1	1263.0	1228.2	1152.7	1065.9	967.3	852.9	836.0	743.6
10°	1476.0	1475.3	1471.0	1446.7	1417.1	1344.7	1248.9	1114.3	957.1	934.0	802.9
12.5°	1603.7	1605.1	1608.0	1599.4	1585.3	1523.6	1425.5	1270.1	1068.1	1045.2	868.9
15°	1690.2	1694.5	1709.2	1721.4	1728.8	1690.9	1595.8	1429.5	1192.5	1165.1	942.1
17.5°	1733.8	1738.5	1764.0	1800.7	1834.6	1830.7	1755.2	1581.5	1311.8	1285.4	1020.7
20°	1771.4	1775.0	1803.6	1847.7	1907.5	1933.9	1891.5	1727.8	1442.6	1411.2	1104.1
22.5°	1880.5	1885.1	1893.6	1918.7	1971.5	2020.2	1999.7	1866.2	1562.5	1533.2	1183.2
25°	2091.2	2096.6	2078.0	2056.8	2066.8	2100.7	2104.5	1992.5	1684.0	1650.9	1268.2
27.5°	2344.9	2352.8	2321.1	2266.5	2218.9	2205.8	2201.2	2095.9	1800.0	1761.6	1352.3
30°	2593.4	2607.0	2565.8	2495.0	2407.6	2346.1	2300.6	2197.2	1914.4	1877.7	1431.7
32.5°	2836.2	2830.7	2770.9	2701.8	2599.3	2522.4	2412.3	2305.8	2043.0	2000.9	1510.5
35°	3002.5	3004.4	2948.9	2866.9	2769.2	2710.1	2561.9	2423.0	2174.3	2135.5	1600.1
37.5°	3144.0	3135.2	3072.3	2995.8	2911.7	2886.4	2737.1	2552.2	2316.5	2274.1	1695.4
40°	3191.2	3180.9	3139.7	3084.7	3017.2	3015.1	2930.3	2698.5	2477.4	2435.4	1802.9
42.5°	3162.6	3149.5	3132.6	3117.5	3096.8	3106.3	3111.8	2870.0	2654.1	2607.2	1927.2
45°	3057.0	3037.3	3049.2	3081.8	3126.8	3180.7	3275.7	3059.9	2852.1	2812.8	2073.3
47.5°	2894.8	2876.9	2914.1	2983.9	3106.3	3242.6	3430.8	3269.6	3088.5	3049.4	2281.3
50°	2666.5	2671.8	2724.9	2851.9	3037.0	3271.2	3621.9	3547.1	3432.0	3395.6	2565.0
52.5°	2292.0	2293.0	2442.6	2651.0	2914.1	3256.4	3728.0	3901.9	3901.2	3857.1	2835.2
55°	1944.1	1965.4	2083.8	2360.9	2714.9	3197.4	3802.0	4074.4	4209.2	4157.5	3087.0
57.5°	1604.4	1616.8	1729.0	2007.3	2430.7	3039.9	3878.1	4281.4	4564.2	4531.6	3400.1
60°	1218.0	1237.0	1353.0	1610.1	2067.1	2760.4	3885.2	4497.5	4988.5	4955.7	3749.6
62.5°	790.5	823.4	932.0	1172.9	1627.3	2358.5	3719.4	4638.8	5390.7	5379.0	4059.8
65°	454.3	479.1	554.7	740.5	1122.7	1853.8	3325.1	4584.5	5638.3	5631.6	4175.9
66°	371.2	386.7	444.6	578.7	926.3	1628.0	3095.9	4469.9	5662.8	5663.0	4162.5
67.5°	296.9	303.8	329.7	414.3	683.5	1290.4	2686.3	4217.1	5632.3	5640.6	4076.5
70°	245.6	249.2	257.3	277.8	373.1	778.1	1906.7	3560.2	5326.2	5332.6	3740.8
72.5°	220.4	222.5	225.6	228.5	263.3	434.8	1164.6	2848.1	4669.8	4678.1	3229.3
75°	199.7	200.8	200.4	200.6	220.9	277.1	601.8	2126.4	3775.8	3759.2	2473.8
77.5°	175.4	176.5	174.2	174.6	195.4	213.0	299.5	1488.6	2548.1	2430.4	1393.8
80°	148.2	149.1	148.2	149.9	170.1	160.8	174.2	837.5	1126.7	1065.7	495.6
82.5°	112.0	116.0	118.9	125.6	140.1	114.4	116.5	326.2	343.1	326.6	152.0
85°	49.1	59.8	89.6	96.0	105.3	68.6	76.5	132.9	139.6	135.3	55.3
87.5°	12.9	14.1	44.3	55.8	58.4	31.0	39.8	60.5	63.9	60.5	18.3
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°	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9	640.9
2.5°	648.0	636.4	615.4	596.8	582.8	573.2	563.7	558.9	556.1	553.2	553.7
5°	668.8	645.2	609.2	583.7	569.4	560.4	555.6	553.7	552.5	549.7	549.7
7.5°	700.0	666.6	617.1	590.9	579.7	572.8	569.9	568.9	567.5	564.2	564.7
10°	739.3	692.6	633.5	608.0	597.8	590.2	586.1	584.7	582.1	578.2	578.7
12.5°	785.5	724.8	655.2	628.5	616.1	605.9	599.2	595.2	590.6	585.6	585.9
15°	836.0	759.8	678.5	646.9	629.9	615.6	604.9	598.0	590.9	584.7	584.4
17.5°	887.3	793.6	696.4	656.9	634.0	615.2	600.6	589.9	581.1	573.5	572.8
20°	942.5	824.1	706.4	655.9	626.4	604.0	584.7	571.3	561.6	553.9	552.7
22.5°	998.8	852.7	708.1	646.1	609.5	582.1	561.8	547.0	537.0	529.2	526.3
25°	1050.2	874.9	701.2	627.3	585.9	556.3	536.5	521.5	513.4	504.1	501.3
27.5°	1097.2	890.4	687.4	603.3	559.4	530.4	511.8	498.9	490.1	482.9	480.6
30°	1139.3	898.7	664.7	574.7	532.3	505.8	490.1	481.3	473.6	464.6	462.9
32.5°	1179.4	898.7	635.7	543.5	505.3	484.1	474.8	469.4	460.8	452.0	449.6
35°	1219.4	893.2	601.4	510.8	480.6	468.6	468.2	461.7	448.6	436.7	433.6
37.5°	1261.6	882.0	562.8	480.3	460.3	461.7	465.8	451.5	432.9	416.0	411.5
40°	1309.2	866.5	522.7	453.9	443.4	458.6	459.4	436.7	400.5	385.0	381.0
42.5°	1365.2	851.0	485.6	430.5	430.0	449.3	447.2	404.8	383.1	375.2	373.1
45°	1438.8	842.2	450.3	408.4	419.6	434.3	426.5	387.2	378.1	373.6	371.7
47.5°	1554.8	846.8	417.9	390.7	409.1	419.3	387.9	380.0	373.6	368.1	366.2
50°	1700.2	844.1	391.7	378.6	397.2	403.6	370.5	370.7	367.4	361.2	358.3
52.5°	1809.5	823.6	374.8	371.7	386.7	375.7	359.5	361.7	360.0	350.9	347.8
55°	1915.1	806.0	366.2	369.1	379.1	340.9	346.7	351.9	350.2	341.4	340.0
57.5°	2046.4	802.7	361.0	369.8	372.6	323.5	334.3	341.2	340.0	336.2	335.5
60°	2207.2	803.6	356.2	371.0	365.5	310.7	322.6	331.4	332.1	331.4	330.9
62.5°	2295.6	777.7	344.3	367.6	352.9	299.5	310.4	323.3	323.5	325.0	324.7
65°	2220.5	700.0	322.1	356.0	331.6	290.2	300.0	314.0	310.4	316.9	316.9
66°	2147.6	655.2	311.2	348.3	322.6	286.6	296.6	309.3	304.7	313.5	313.5
67.5°	1998.7	579.7	291.4	332.1	309.7	281.6	292.8	301.4	295.2	308.3	307.3
70°	1726.6	448.4	251.6	295.4	288.5	274.2	287.6	285.7	276.6	296.6	292.8
72.5°	1455.7	340.7	202.0	247.3	256.4	264.9	280.2	265.7	254.2	268.3	259.9
75°	1129.6	256.1	159.6	192.3	216.6	250.4	271.4	242.5	226.1	224.7	220.1
77.5°	610.6	175.8	126.5	146.8	172.0	232.3	265.4	217.8	193.0	187.3	183.7
80°	241.8	114.4	92.0	111.3	120.3	206.1	251.1	188.9	159.2	153.4	148.0
82.5°	99.8	67.7	59.3	74.6	78.4	176.3	225.4	154.9	122.9	170.1	180.6
85°	42.9	37.2	35.3	38.6	44.3	123.7	179.4	118.2	132.7	118.4	94.1
87.5°	12.9	15.7	15.0	14.8	16.2	29.5	95.5	65.8	97.4	36.9	27.6
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)