

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: P348532

Luminaire Tested: **ARCH-N-PA1-60-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348532
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-PA1-60-727-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6445 lumens
Efficiency: N/A
Efficacy: 104.0 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

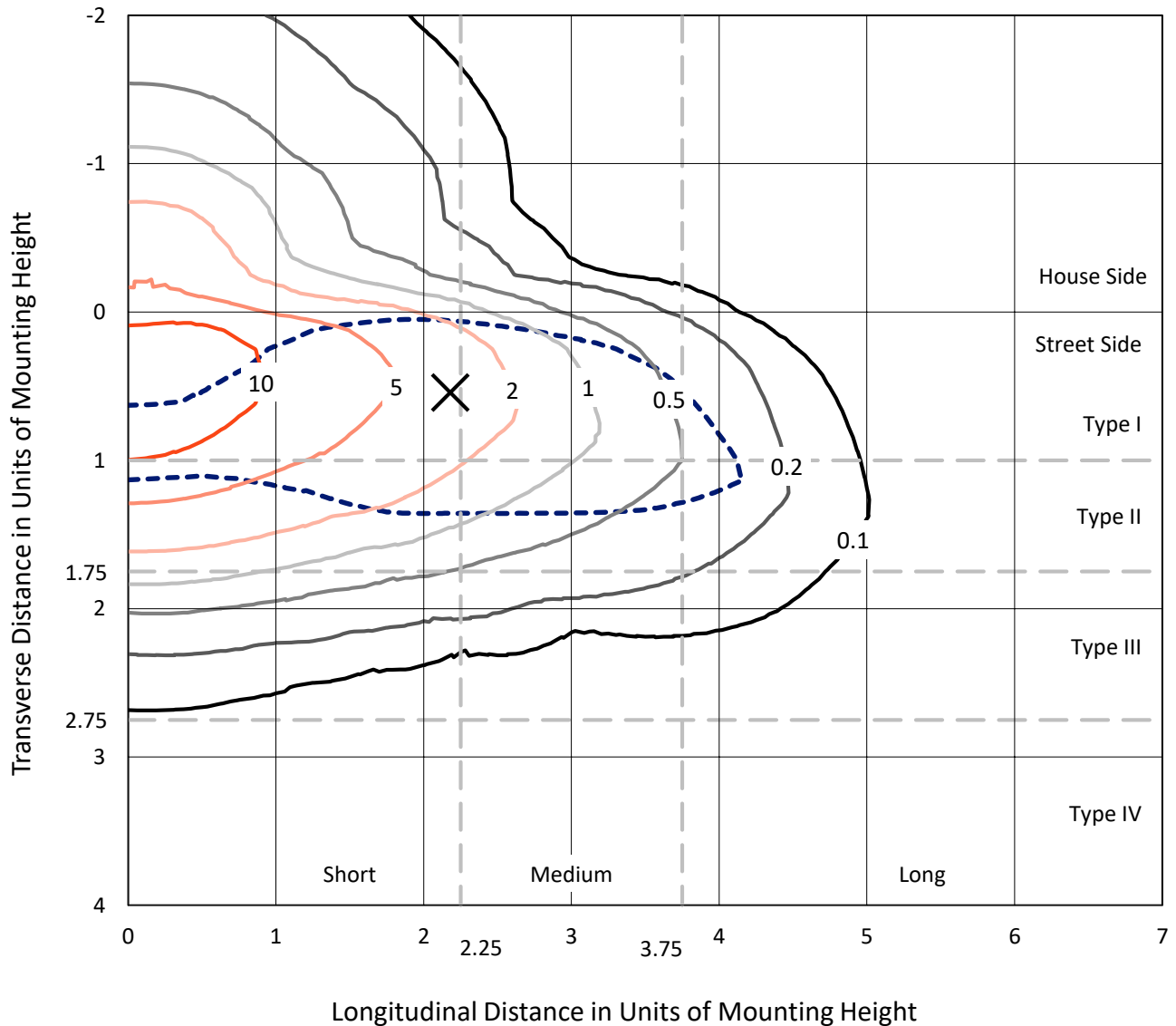
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

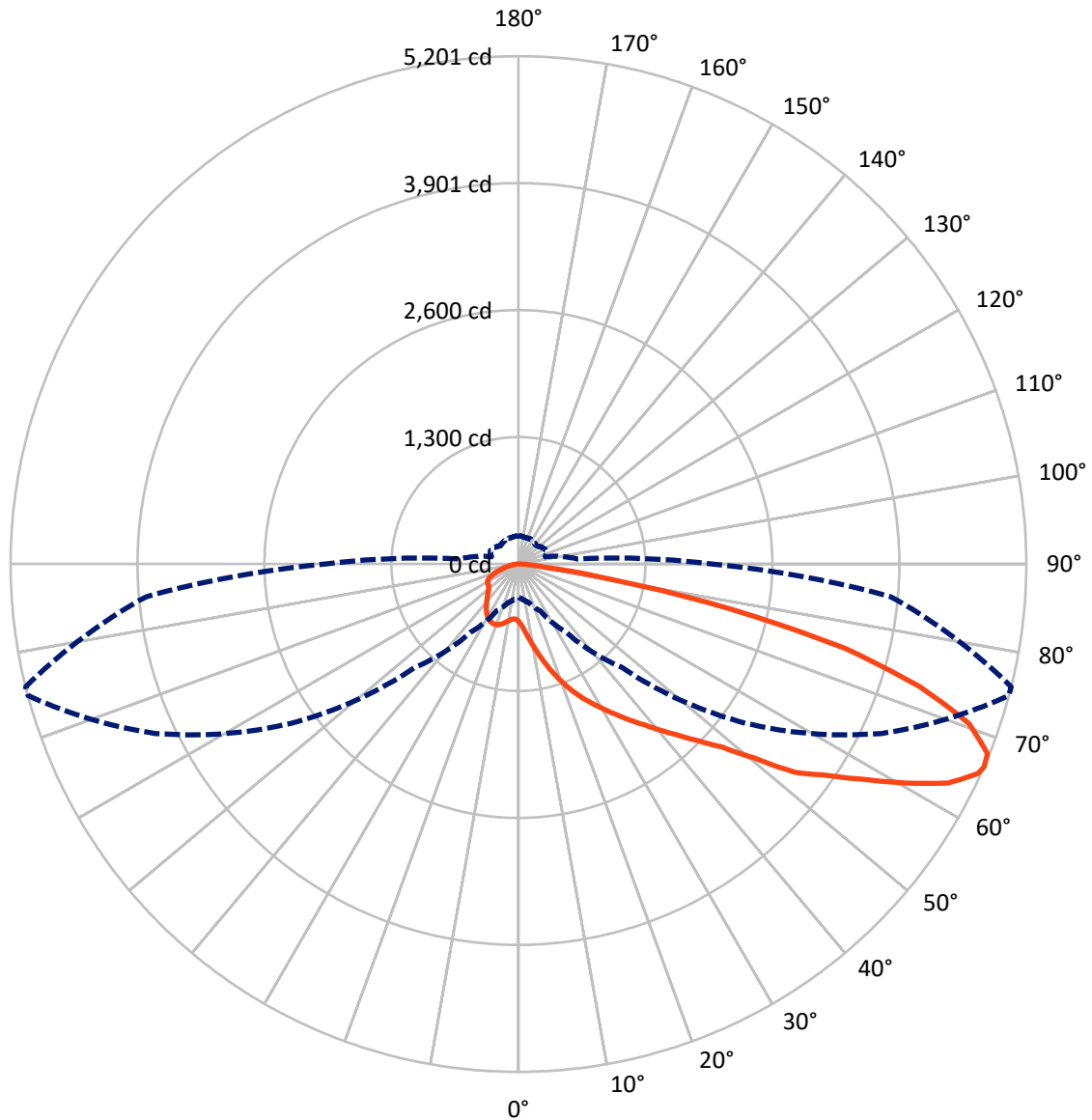


Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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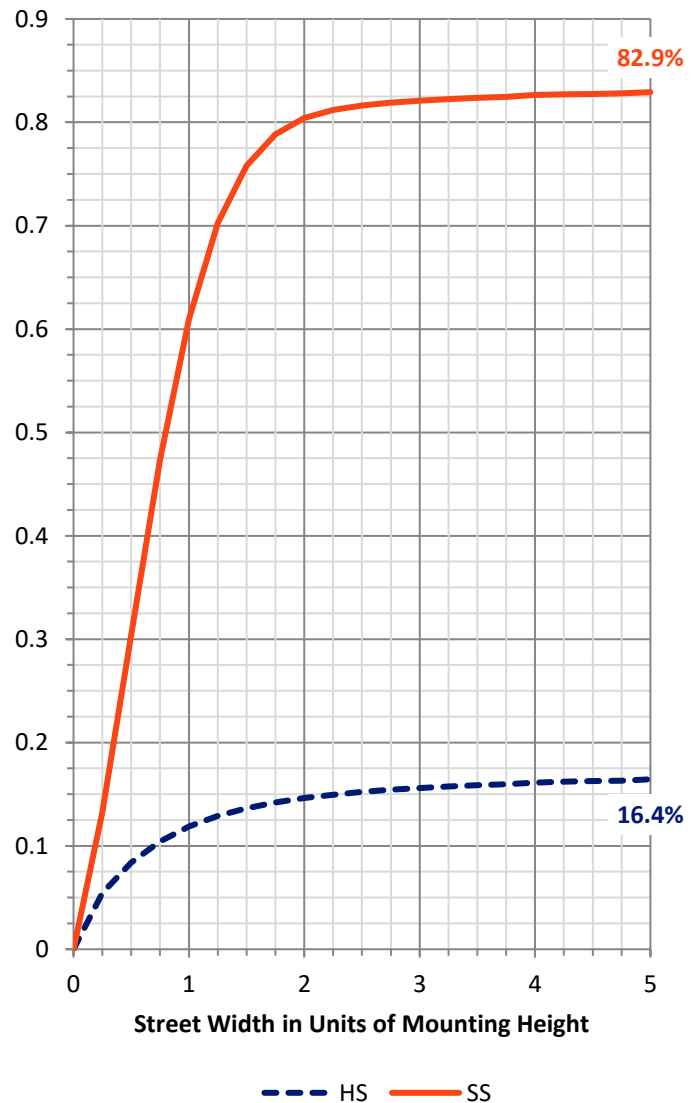
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1084.5	0.0	1084.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	5360.5	0.0	5360.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	6445.0	0.0	6445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	1.1
10°-20°	281.1	4.4
20°-30°	546.2	8.5
30°-40°	891.5	13.8
40°-50°	1218.0	18.9
50°-60°	1418.7	22.0
60°-70°	1271.9	19.7
70°-80°	642.8	10.0
80°-90°	103.8	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°	6445.0	100.0
0°-180°	6445.0	100.0

Coefficient of Utilization



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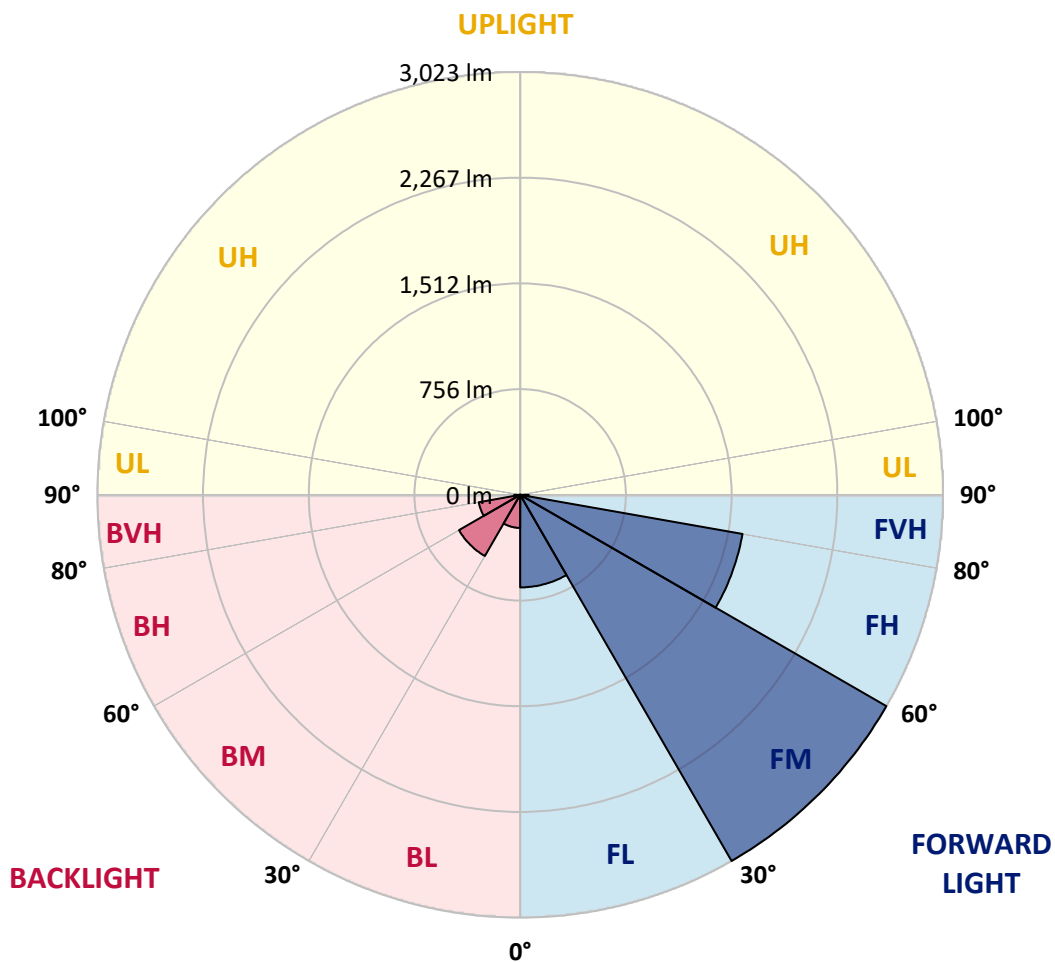
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	661.9	10.3			
FM (30°-60°)	3023.2	46.9			
FH (60°-80°)	1614.2	25.0			G1/1800
FVH (80°-90°)	61.3	1.0			G1/100
BL (0°-30°)	236.5	3.7	B1/500		
BM (30°-60°)	505.0	7.8	B1/1000		
BH (60°-80°)	300.4	4.7	B1/500		G1/500
BVH (80°-90°)	42.5	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°	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6
2.5°	781.3	769.5	768.4	751.1	747.2	714.2	689.9	664.5	635.6	629.9	607.2
5°	1003.6	1002.5	987.4	959.2	937.1	880.7	824.9	765.8	701.0	690.5	639.3
7.5°	1203.6	1201.9	1190.3	1159.9	1127.9	1058.6	978.9	888.3	783.3	767.8	682.9
10°	1355.5	1354.8	1350.9	1328.6	1301.4	1234.9	1147.0	1023.3	878.9	857.7	737.4
12.5°	1472.7	1474.1	1476.7	1468.8	1455.9	1399.2	1309.1	1166.4	980.9	959.9	798.0
15°	1552.2	1556.1	1569.7	1580.8	1587.6	1552.8	1465.5	1312.8	1095.1	1069.9	865.1
17.5°	1592.2	1596.6	1620.0	1653.7	1684.8	1681.3	1611.9	1452.4	1204.7	1180.4	937.3
20°	1626.8	1630.1	1656.3	1696.8	1751.7	1776.0	1737.1	1586.7	1324.8	1296.0	1013.9
22.5°	1727.0	1731.2	1739.0	1762.0	1810.6	1855.2	1836.4	1713.9	1434.9	1408.0	1086.6
25°	1920.4	1925.4	1908.4	1888.9	1898.1	1929.2	1932.7	1829.8	1546.5	1516.1	1164.7
27.5°	2153.4	2160.7	2131.6	2081.5	2037.7	2025.7	2021.5	1924.8	1653.0	1617.8	1241.9
30°	2381.6	2394.1	2356.3	2291.3	2211.0	2154.5	2112.7	2017.8	1758.1	1724.4	1314.8
32.5°	2604.6	2599.6	2544.7	2481.2	2387.1	2316.4	2215.4	2117.6	1876.2	1837.5	1387.2
35°	2757.3	2759.1	2708.1	2632.8	2543.1	2488.9	2352.8	2225.2	1996.8	1961.1	1469.5
37.5°	2887.3	2879.2	2821.4	2751.2	2674.0	2650.8	2513.6	2343.8	2127.4	2088.5	1557.0
40°	2930.6	2921.2	2883.4	2832.8	2770.9	2768.9	2691.0	2478.1	2275.1	2236.6	1655.7
42.5°	2904.4	2892.3	2876.8	2863.0	2844.0	2852.7	2857.8	2635.7	2437.4	2394.3	1769.9
45°	2807.4	2789.3	2800.2	2830.2	2871.5	2921.0	3008.3	2810.1	2619.3	2583.2	1904.0
47.5°	2658.4	2642.0	2676.2	2740.3	2852.7	2977.9	3150.7	3002.6	2836.3	2800.4	2095.0
50°	2448.8	2453.6	2502.4	2619.0	2789.1	3004.1	3326.2	3257.5	3151.8	3118.3	2355.6
52.5°	2104.9	2105.7	2243.1	2434.6	2676.2	2990.6	3423.6	3583.3	3582.6	3542.2	2603.7
55°	1785.4	1804.9	1913.6	2168.1	2493.2	2936.3	3491.6	3741.7	3865.6	3818.1	2835.0
57.5°	1473.4	1484.8	1587.8	1843.4	2232.2	2791.7	3561.4	3931.8	4191.6	4161.6	3122.5
60°	1118.5	1136.0	1242.6	1478.7	1898.3	2535.0	3568.0	4130.3	4581.2	4551.1	3443.5
62.5°	726.0	756.2	855.9	1077.2	1494.4	2165.9	3415.7	4260.0	4950.6	4939.9	3728.4
65°	417.3	440.0	509.4	680.0	1031.0	1702.5	3053.6	4210.2	5177.9	5171.8	3834.9
66°	340.9	355.1	408.3	531.5	850.7	1495.1	2843.1	4104.9	5200.5	5200.7	3822.7
67.5°	272.6	279.0	302.8	380.5	627.7	1185.0	2467.0	3872.8	5172.4	5180.1	3743.7
70°	225.6	228.9	236.3	255.1	342.6	714.6	1751.1	3269.5	4891.3	4897.2	3435.4
72.5°	202.4	204.4	207.2	209.8	241.8	399.3	1069.5	2615.5	4288.5	4296.2	2965.6
75°	183.4	184.4	184.0	184.2	202.8	254.5	552.7	1952.8	3467.6	3452.2	2271.8
77.5°	161.0	162.1	159.9	160.4	179.4	195.6	275.0	1367.1	2340.1	2232.0	1280.0
80°	136.1	137.0	136.1	137.6	156.2	147.7	159.9	769.1	1034.7	978.7	455.1
82.5°	102.8	106.6	109.2	115.3	128.7	105.0	107.0	299.5	315.1	300.0	139.6
85°	45.1	54.9	82.3	88.2	96.7	63.0	70.2	122.1	128.2	124.3	50.8
87.5°	11.8	12.9	40.7	51.2	53.6	28.4	36.5	55.6	58.6	55.6	16.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6	588.6
2.5°	595.1	584.4	565.2	548.1	535.2	526.4	517.7	513.3	510.7	508.1	508.5
5°	614.2	592.5	559.5	536.1	522.9	514.6	510.2	508.5	507.4	504.8	504.8
7.5°	642.8	612.2	566.7	542.6	532.3	526.0	523.4	522.5	521.2	518.1	518.6
10°	678.9	636.1	581.8	558.4	549.0	542.0	538.2	536.9	534.5	531.0	531.5
12.5°	721.4	665.6	601.7	577.2	565.8	556.4	550.3	546.6	542.4	537.8	538.0
15°	767.8	697.8	623.1	594.0	578.5	565.4	555.5	549.2	542.6	536.9	536.7
17.5°	814.8	728.8	639.6	603.2	582.2	564.9	551.6	541.8	533.7	526.7	526.0
20°	865.6	756.8	648.7	602.4	575.2	554.7	536.9	524.7	515.7	508.7	507.6
22.5°	917.2	783.1	650.3	593.4	559.7	534.5	515.9	502.4	493.2	486.0	483.3
25°	964.5	803.4	643.9	576.1	538.0	510.9	492.7	479.0	471.5	463.0	460.4
27.5°	1007.6	817.7	631.2	554.0	513.7	487.1	470.0	458.2	450.1	443.5	441.3
30°	1046.3	825.3	610.5	527.7	488.8	464.5	450.1	442.0	435.0	426.7	425.1
32.5°	1083.1	825.3	583.8	499.1	464.1	444.6	436.1	431.0	423.2	415.1	412.9
35°	1119.8	820.3	552.3	469.1	441.3	430.4	429.9	424.0	412.0	401.1	398.2
37.5°	1158.5	810.0	516.8	441.1	422.7	424.0	427.8	414.6	397.6	382.0	377.9
40°	1202.3	795.8	480.0	416.8	407.2	421.2	421.8	401.1	367.8	353.6	349.9
42.5°	1253.7	781.6	445.9	395.4	394.9	412.7	410.7	371.7	351.8	344.6	342.6
45°	1321.3	773.5	413.5	375.0	385.3	398.9	391.7	355.6	347.2	343.1	341.3
47.5°	1427.9	777.6	383.8	358.8	375.7	385.1	356.2	349.0	343.1	338.0	336.3
50°	1561.4	775.2	359.7	347.7	364.7	370.6	340.2	340.5	337.4	331.7	329.1
52.5°	1661.8	756.4	344.2	341.3	355.1	345.0	330.2	332.1	330.6	322.3	319.4
55°	1758.7	740.2	336.3	338.9	348.1	313.1	318.4	323.2	321.6	313.5	312.2
57.5°	1879.3	737.1	331.5	339.6	342.2	297.1	307.0	313.3	312.2	308.7	308.1
60°	2027.0	738.0	327.1	340.7	335.6	285.3	296.3	304.4	305.0	304.4	303.9
62.5°	2108.1	714.2	316.2	337.6	324.0	275.0	285.1	296.9	297.1	298.4	298.2
65°	2039.2	642.8	295.8	326.9	304.6	266.5	275.5	288.4	285.1	291.0	291.0
66°	1972.3	601.7	285.8	319.9	296.3	263.2	272.4	284.0	279.8	287.9	287.9
67.5°	1835.5	532.3	267.6	305.0	284.4	258.6	268.9	276.8	271.1	283.1	282.3
70°	1585.6	411.8	231.1	271.3	265.0	251.8	264.1	262.3	254.0	272.4	268.9
72.5°	1336.9	312.9	185.5	227.1	235.4	243.3	257.3	244.0	233.5	246.4	238.7
75°	1037.3	235.2	146.6	176.6	198.9	230.0	249.2	222.7	207.6	206.3	202.2
77.5°	560.8	161.5	116.2	134.8	158.0	213.3	243.7	200.0	177.2	172.0	168.7
80°	222.1	105.0	84.5	102.2	110.5	189.3	230.6	173.5	146.2	140.9	135.9
82.5°	91.7	62.1	54.5	68.5	72.0	161.9	207.0	142.2	112.9	156.2	165.9
85°	39.4	34.1	32.4	35.4	40.7	113.6	164.8	108.5	121.9	108.7	86.4
87.5°	11.8	14.4	13.8	13.6	14.9	27.1	87.7	60.4	89.5	33.9	25.4
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)