

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: P397905

Luminaire Tested: **ARCH-S-PA1-60-730-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-60-730-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6375 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B0 - U0 - G2

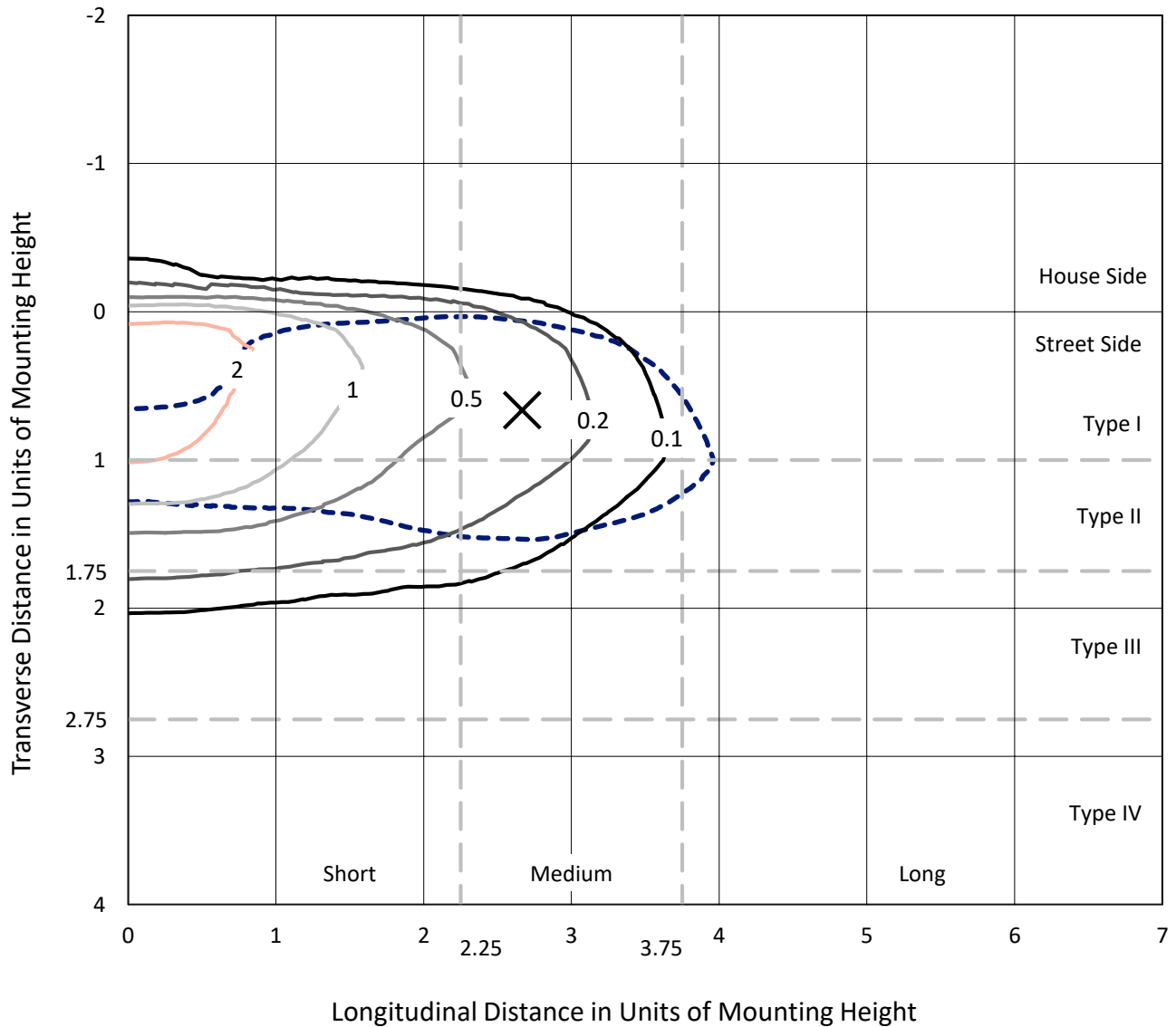
Input Watts (W): 64
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P397905
 CATALOG NUMBER: ARCH-S-PA1-60-730-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

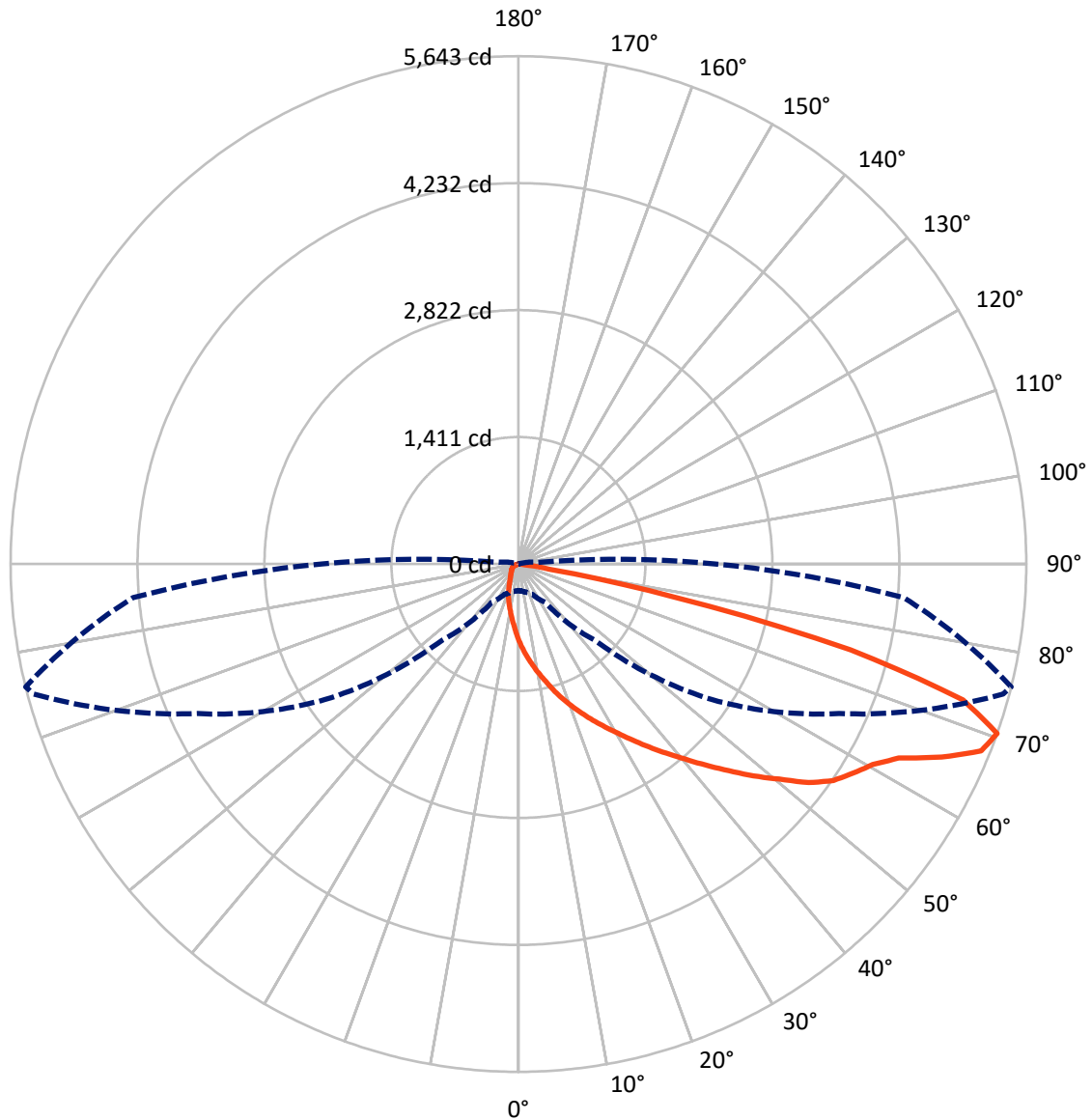
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P397905
CATALOG NUMBER: ARCH-S-PA1-60-730-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P397905

CATALOG NUMBER: ARCH-S-PA1-60-730-U-T2R-HSS

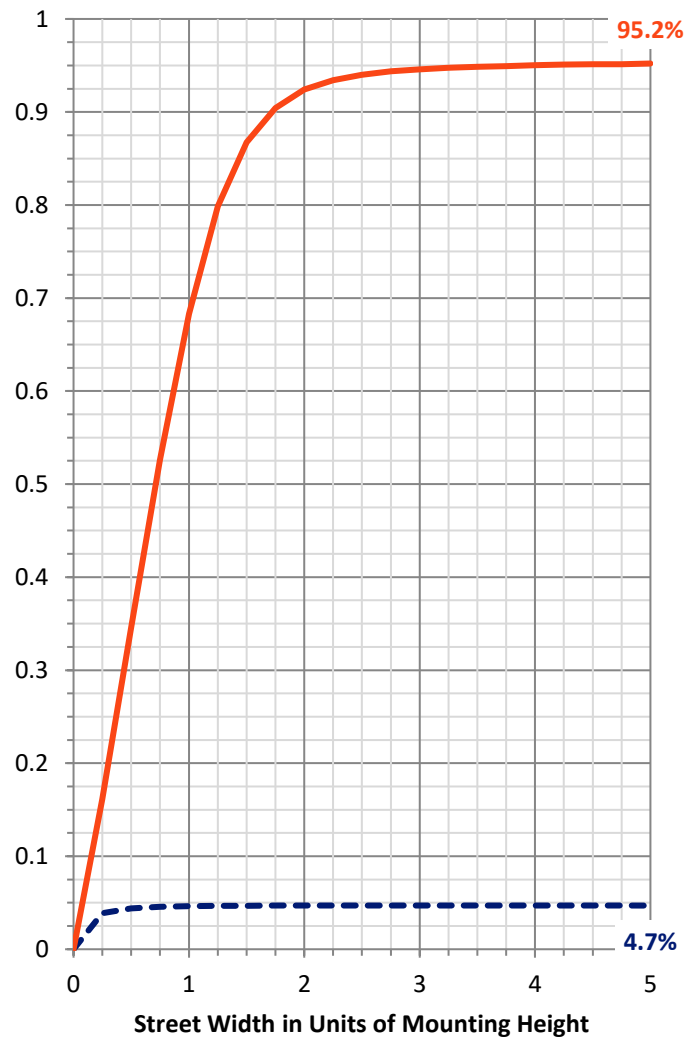
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	300.7	0.0	300.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	6074.3	0.0	6074.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	6375.0	0.0	6375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	1.3
10°-20°	259.5	4.1
20°-30°	483.2	7.6
30°-40°	854.7	13.4
40°-50°	1307.0	20.5
50°-60°	1481.8	23.2
60°-70°	1270.3	19.9
70°-80°	615.3	9.7
80°-90°	22.8	0.4
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°	6375.0	100.0
0°-180°	6375.0	100.0

Coefficient of Utilization



--- HS — SS

REPORT NUMBER: P397905

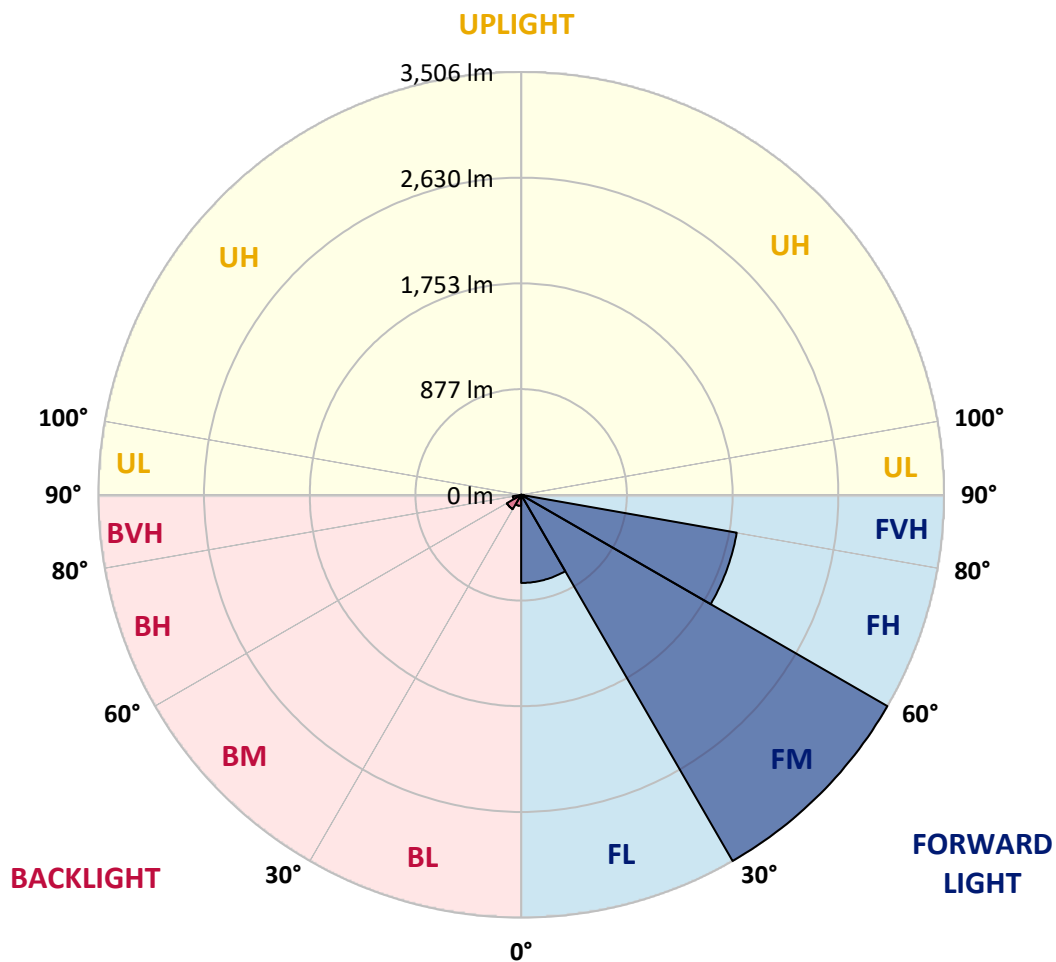
CATALOG NUMBER: ARCH-S-PA1-60-730-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	730.8	11.5			
FM	(30°-60°)	3506.3	55.0			
FH	(60°-80°)	1814.8	28.5			G2/5000
FVH	(80°-90°)	22.4	0.4			G1/100
BL	(0°-30°)	92.2	1.4	B0/110		
BM	(30°-60°)	137.2	2.2	B0/220		
BH	(60°-80°)	70.8	1.1	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Medium





REPORT NUMBER: P397905

CATALOG NUMBER: ARCH-S-PA1-60-730-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	853.3	853.3	853.3	853.3	853.3	853.3	853.3	853.3	853.3	853.3	853.3
2.5°	1166.4	1160.1	1153.7	1129.3	1107.0	1086.8	1048.6	998.7	954.2	944.6	892.6
5°	1370.2	1362.8	1353.2	1328.8	1300.2	1266.2	1210.0	1133.5	1055.0	1038.0	941.4
7.5°	1508.2	1501.8	1488.0	1476.4	1447.7	1414.8	1352.2	1263.0	1154.8	1133.5	997.7
10°	1602.7	1598.4	1596.3	1586.7	1565.5	1539.0	1476.4	1383.0	1255.6	1231.2	1057.1
12.5°	1636.6	1636.6	1647.2	1663.2	1666.3	1657.8	1600.5	1507.1	1361.7	1336.3	1127.2
15°	1591.0	1596.3	1619.6	1670.6	1723.7	1758.7	1722.6	1635.6	1478.5	1450.9	1210.0
17.5°	1578.2	1583.6	1599.5	1644.0	1715.2	1808.6	1826.6	1759.7	1588.9	1565.5	1294.9
20°	1614.3	1619.6	1633.4	1671.6	1725.8	1820.2	1895.6	1879.7	1705.6	1681.2	1380.8
22.5°	1700.3	1703.5	1703.5	1733.2	1781.0	1851.0	1939.1	1993.2	1825.5	1799.0	1465.7
25°	1885.0	1878.6	1853.1	1838.3	1869.1	1926.4	1994.3	2093.0	1959.3	1923.2	1557.0
27.5°	2127.0	2148.2	2086.6	2015.5	1992.2	2025.1	2071.8	2181.1	2088.8	2050.6	1639.8
30°	2454.9	2446.4	2365.8	2263.9	2163.1	2151.4	2167.3	2256.5	2218.2	2182.2	1732.1
32.5°	2724.5	2740.4	2655.5	2531.3	2380.6	2309.5	2292.5	2346.7	2356.2	2332.9	1841.5
35°	3001.5	3018.5	2935.7	2797.7	2618.4	2499.5	2450.7	2458.1	2527.1	2497.4	1956.1
37.5°	3249.9	3264.7	3183.0	3041.9	2862.5	2717.1	2647.0	2589.7	2692.7	2666.1	2077.1
40°	3438.8	3440.9	3385.7	3259.4	3089.6	2938.9	2859.3	2746.8	2867.8	2849.8	2203.4
42.5°	3572.5	3576.8	3536.5	3428.2	3271.1	3131.0	3066.3	2932.5	3069.5	3053.5	2349.9
45°	3635.2	3642.6	3638.3	3538.6	3408.0	3287.0	3265.8	3130.0	3290.2	3275.4	2518.6
47.5°	3575.7	3575.7	3629.9	3616.1	3496.1	3415.5	3439.9	3335.9	3530.1	3516.3	2690.6
50°	3328.4	3331.6	3442.0	3600.1	3530.1	3512.0	3588.5	3537.5	3747.7	3756.2	2896.5
52.5°	2678.9	2673.6	3046.1	3349.7	3506.7	3555.6	3725.4	3743.4	4008.8	4034.2	3101.3
55°	2001.7	1998.5	2355.2	2906.0	3343.3	3533.3	3801.8	3927.0	4231.6	4247.6	3254.1
57.5°	1584.6	1576.1	1772.5	2342.4	2973.9	3433.5	3805.0	3962.1	4355.8	4383.4	3402.7
60°	1218.4	1211.0	1357.5	1742.8	2450.7	3168.2	3713.7	3964.2	4475.8	4524.6	3602.3
62.5°	871.4	879.9	992.4	1250.3	1885.0	2793.5	3594.8	3993.9	4689.1	4744.3	3885.6
65°	588.0	583.7	677.1	851.2	1340.5	2289.4	3412.3	4056.5	5073.3	5169.9	4225.3
67.5°	408.6	411.8	454.3	554.0	851.2	1757.6	3108.7	4091.5	5470.3	5545.6	4463.0
70°	295.1	299.3	322.7	372.5	520.1	1191.9	2627.9	3931.3	5577.5	5643.3	4297.5
72.5°	194.2	202.7	237.7	264.3	332.2	746.1	1935.9	3386.8	5115.8	5164.6	3605.4
75°	105.1	107.2	152.8	197.4	236.7	464.9	1154.8	2284.1	3827.3	3811.3	2377.4
77.5°	81.7	84.9	94.5	141.2	159.2	255.8	456.4	1031.6	1812.8	1764.0	810.9
80°	49.9	52.0	65.8	83.8	111.4	148.6	133.7	280.2	368.3	344.9	118.9
82.5°	29.7	31.8	39.3	70.0	88.1	70.0	46.7	67.9	69.0	67.9	29.7
85°	5.3	5.3	27.6	48.8	46.7	20.2	27.6	22.3	20.2	21.2	6.4
87.5°	0.0	0.0	10.6	14.9	21.2	7.4	10.6	5.3	5.3	5.3	3.2
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: P397905

CATALOG NUMBER: ARCH-S-PA1-60-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	853.3	853.3	853.3	853.3	853.3	853.3	853.3	853.3	853.3	853.3	853.3
2.5°	860.8	824.7	750.4	685.6	620.9	573.1	537.0	499.9	487.2	471.2	462.8
5°	875.6	804.5	657.0	539.2	439.4	363.0	314.2	284.4	265.3	251.5	248.4
7.5°	897.9	788.6	581.6	422.4	313.1	236.7	196.4	176.2	165.6	159.2	157.1
10°	924.4	774.8	507.3	329.0	220.8	166.6	144.3	135.9	131.6	129.5	128.4
12.5°	961.6	769.5	444.7	253.7	166.6	136.9	125.2	119.9	116.7	113.6	112.5
15°	1010.4	771.6	387.4	196.4	138.0	122.1	112.5	107.2	103.0	99.8	99.8
17.5°	1061.4	774.8	331.1	159.2	125.2	111.4	100.8	93.4	90.2	87.0	86.0
20°	1109.1	773.7	277.0	135.9	113.6	99.8	89.2	81.7	76.4	73.2	73.2
22.5°	1154.8	767.4	226.1	122.1	104.0	88.1	76.4	69.0	64.7	61.6	61.6
25°	1203.6	754.6	184.7	111.4	92.3	77.5	65.8	58.4	55.2	52.0	52.0
27.5°	1241.8	733.4	150.7	101.9	81.7	66.9	56.3	49.9	46.7	44.6	44.6
30°	1283.2	702.6	125.2	91.3	71.1	57.3	47.8	42.5	39.3	38.2	38.2
32.5°	1328.8	668.7	107.2	80.7	60.5	48.8	40.3	37.1	34.0	32.9	32.9
35°	1381.9	638.9	96.6	70.0	53.1	41.4	35.0	31.8	29.7	29.7	29.7
37.5°	1442.4	608.2	87.0	61.6	45.6	35.0	29.7	28.7	27.6	26.5	26.5
40°	1508.2	575.3	78.5	54.1	39.3	29.7	25.5	25.5	24.4	24.4	24.4
42.5°	1582.5	546.6	71.1	47.8	34.0	25.5	22.3	22.3	21.2	21.2	21.2
45°	1663.2	520.1	64.7	42.5	29.7	22.3	20.2	19.1	18.0	18.0	18.0
47.5°	1758.7	505.2	59.4	37.1	25.5	19.1	17.0	15.9	14.9	13.8	13.8
50°	1880.7	511.6	54.1	30.8	22.3	15.9	13.8	12.7	11.7	10.6	10.6
52.5°	1977.3	508.4	46.7	26.5	18.0	12.7	10.6	9.6	8.5	7.4	7.4
55°	2047.4	495.7	40.3	22.3	13.8	10.6	8.5	6.4	5.3	5.3	5.3
57.5°	2116.4	482.9	34.0	18.0	10.6	7.4	5.3	4.2	4.2	4.2	4.2
60°	2223.6	464.9	29.7	14.9	8.5	5.3	3.2	3.2	2.1	2.1	2.1
62.5°	2354.1	442.6	24.4	12.7	6.4	4.2	2.1	2.1	0.0	0.0	0.0
65°	2497.4	403.3	20.2	9.6	5.3	3.2	2.1	0.0	0.0	0.0	0.0
67.5°	2464.5	323.7	17.0	6.4	4.2	2.1	1.1	0.0	0.0	0.0	0.0
70°	2180.0	218.6	13.8	5.3	3.2	2.1	1.1	0.0	0.0	0.0	0.0
72.5°	1707.7	129.5	9.6	4.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	1093.2	64.7	6.4	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	366.2	31.8	4.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	52.0	10.6	2.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.7	4.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)