

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: P348824

Luminaire Tested: **ARCH-N-PA1-40-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-40-740-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 740mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3893 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 41
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

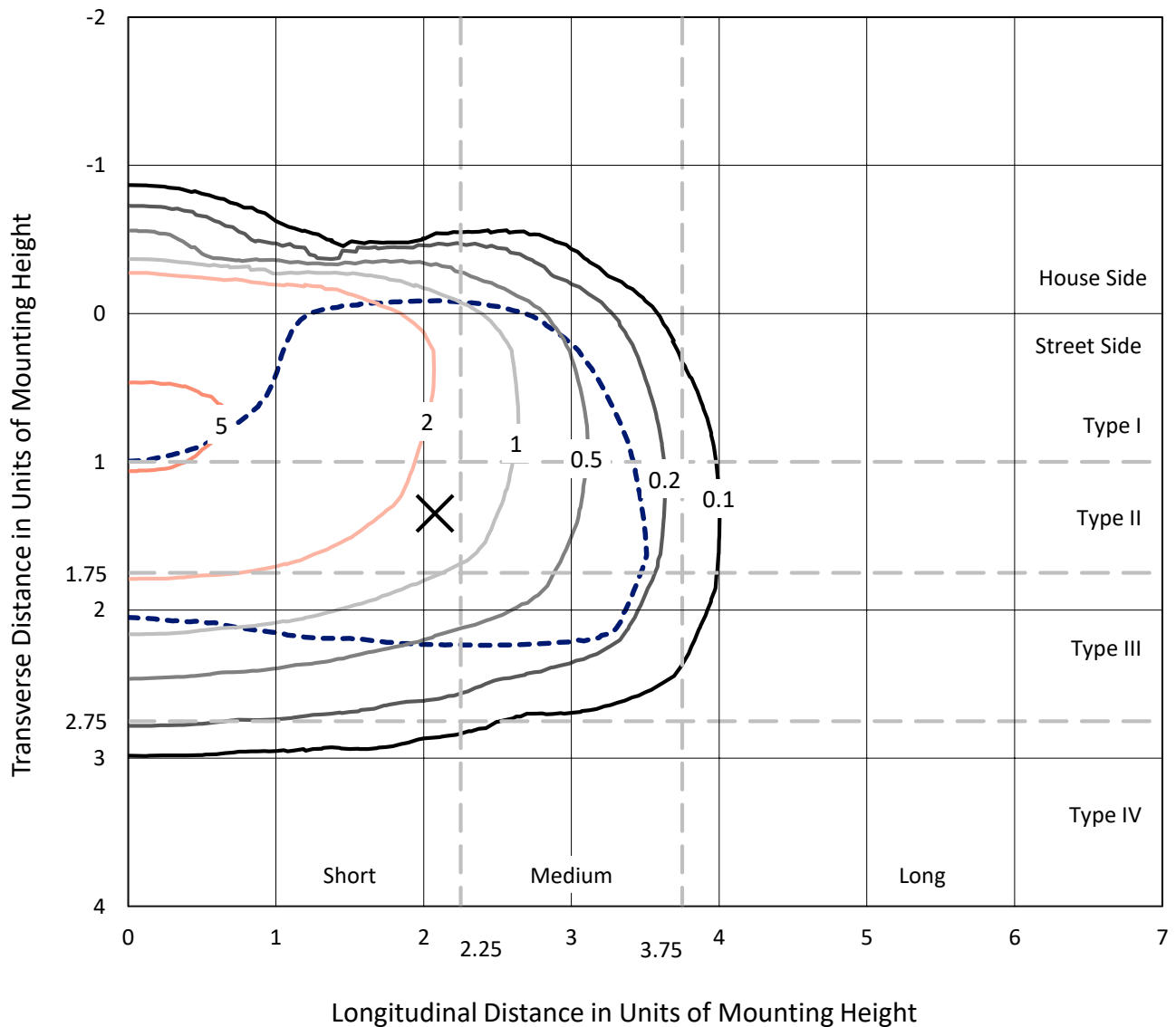


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

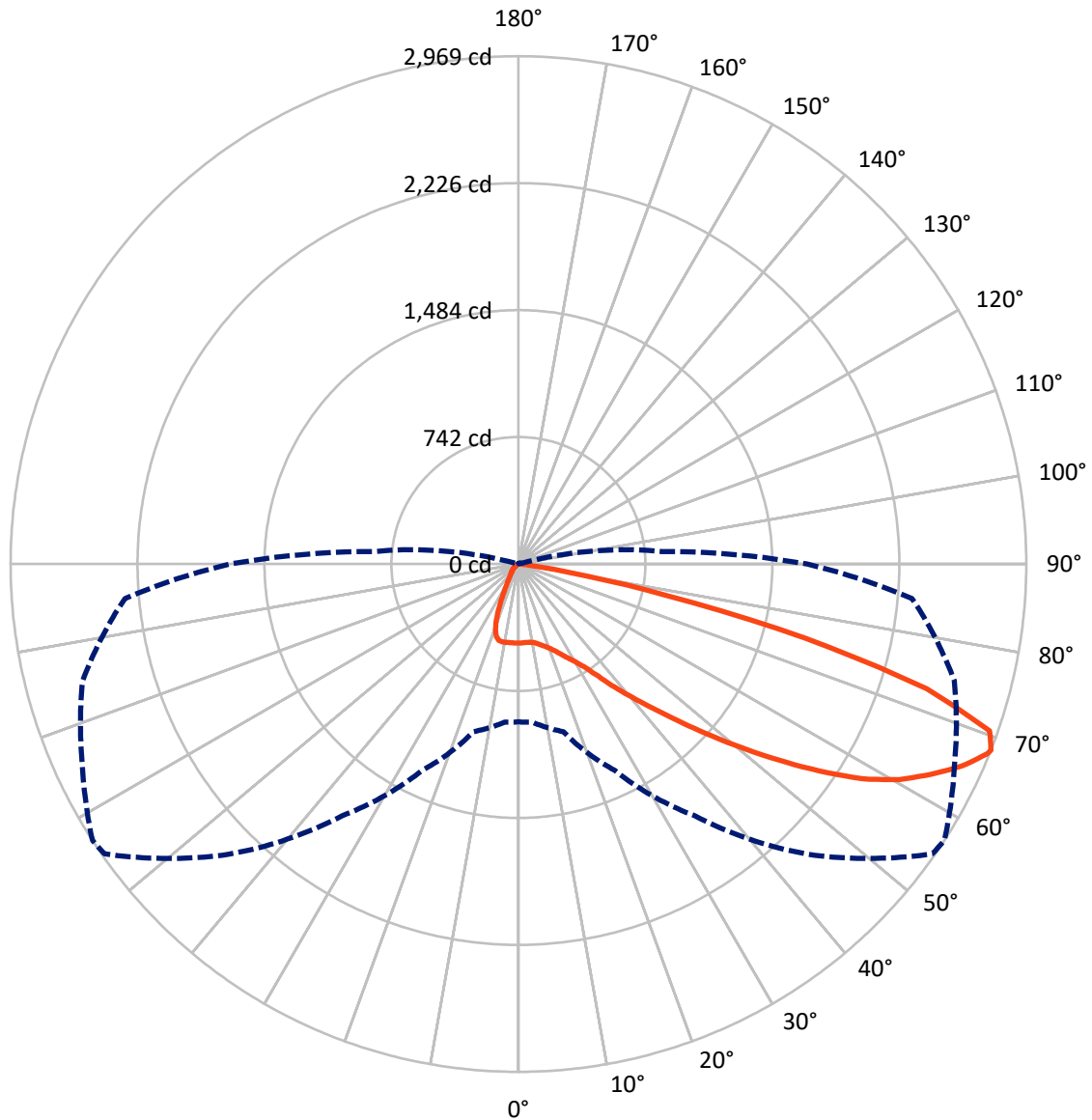


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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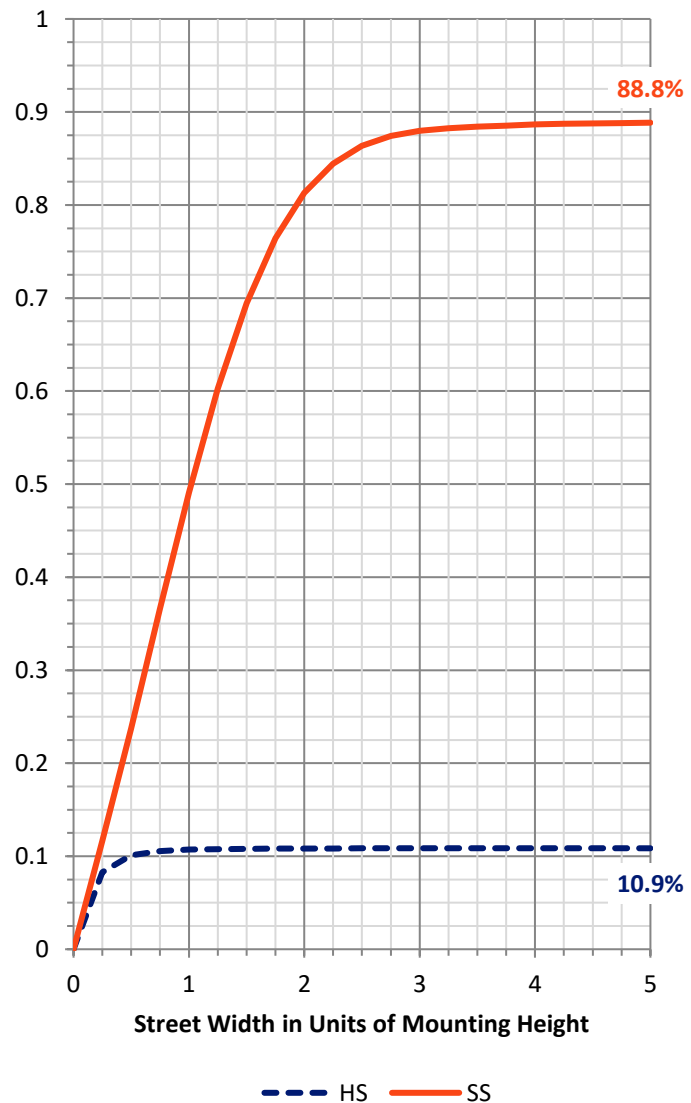
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	426.9	0.0	426.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	3466.1	0.0	3466.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	3893.0	0.0	3893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	1.1
10°-20°	120.0	3.1
20°-30°	206.9	5.3
30°-40°	357.2	9.2
40°-50°	611.0	15.7
50°-60°	977.5	25.1
60°-70°	1129.4	29.0
70°-80°	431.6	11.1
80°-90°	16.2	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°	3893.0	100.0
0°-180°	3893.0	100.0

Coefficient of Utilization



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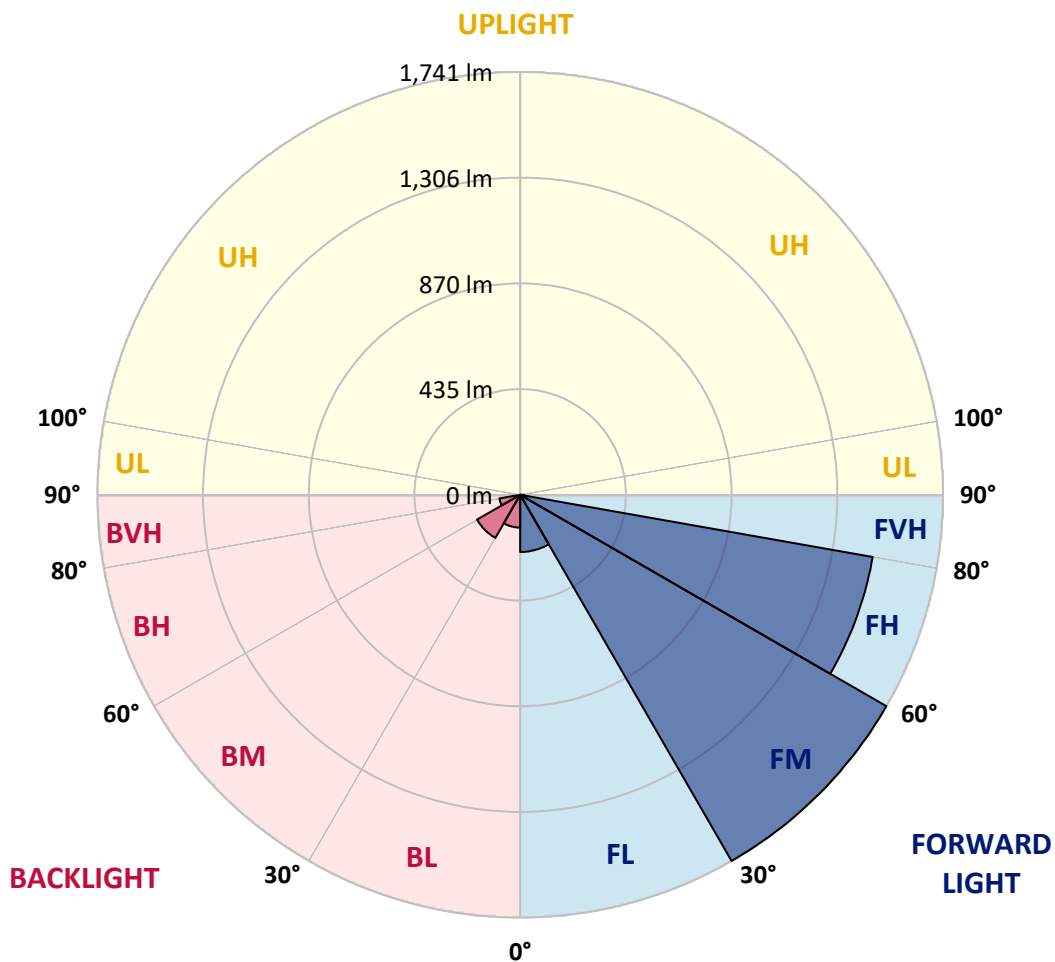
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	235.3	6.0			
FM	(30°-60°)	1740.9	44.7			
FH	(60°-80°)	1474.0	37.9			G1/1800
FVH	(80°-90°)	15.9	0.4			G1/100
BL	(0°-30°)	134.9	3.5	B1/500		
BM	(30°-60°)	204.7	5.3	B0/220		
BH	(60°-80°)	86.9	2.2	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	462.6	462.6	462.6	462.6	462.6	462.6	462.6	462.6	462.6	462.6	462.6
2.5°	451.7	453.8	455.2	456.1	457.3	459.6	460.4	461.5	462.0	462.0	463.3
5°	433.9	436.1	439.2	441.8	446.9	453.6	458.4	460.2	463.5	466.5	468.1
7.5°	417.3	419.9	423.6	429.6	438.5	449.2	459.1	461.7	468.1	474.4	477.5
10°	406.6	408.7	413.4	422.1	433.7	448.6	462.6	465.7	476.8	487.3	493.1
12.5°	402.9	404.8	409.8	419.5	433.9	451.4	470.7	475.3	491.5	506.8	515.1
15°	408.3	408.7	414.0	423.2	437.4	458.2	484.1	489.7	510.1	530.0	540.3
17.5°	428.9	427.2	430.0	434.1	445.3	467.2	498.3	506.6	533.8	557.2	567.0
20°	480.4	480.4	474.2	463.1	463.3	481.2	517.4	526.8	560.2	587.2	596.0
22.5°	568.6	567.0	554.4	527.4	502.5	505.3	540.8	553.0	591.8	620.7	623.7
25°	674.7	672.6	653.3	615.2	572.1	544.3	572.5	586.5	629.6	655.1	649.1
27.5°	786.9	785.3	766.1	718.8	657.5	606.5	610.2	623.5	668.0	693.2	673.9
30°	895.7	896.3	877.3	828.7	759.3	685.9	658.1	665.8	705.4	731.0	703.4
32.5°	999.2	999.9	983.5	929.2	864.4	778.1	724.4	722.3	748.8	774.1	742.4
35°	1091.4	1093.2	1082.0	1039.9	971.2	880.8	810.3	805.5	810.5	839.0	802.2
37.5°	1180.3	1181.4	1173.0	1137.4	1080.0	993.7	918.9	912.1	901.4	923.3	881.2
40°	1277.7	1274.9	1265.2	1233.0	1183.6	1118.3	1035.6	1023.8	1005.3	1024.8	985.0
42.5°	1368.3	1365.1	1366.8	1330.3	1288.7	1246.4	1171.7	1151.4	1140.6	1163.0	1112.4
45°	1481.5	1479.8	1485.3	1453.7	1420.0	1389.2	1327.6	1305.5	1300.7	1327.0	1266.5
47.5°	1593.2	1597.3	1614.4	1600.9	1587.3	1560.3	1492.7	1482.8	1485.7	1517.5	1429.0
50°	1686.3	1691.1	1738.1	1753.5	1773.2	1757.4	1689.7	1683.6	1695.2	1723.9	1603.9
52.5°	1753.7	1763.5	1821.8	1893.1	1964.9	1975.5	1908.0	1902.5	1918.1	1922.5	1739.0
55°	1800.5	1809.1	1875.2	2005.5	2151.7	2197.7	2155.8	2134.4	2131.5	2087.8	1881.1
57.5°	1808.8	1807.8	1902.8	2078.3	2298.2	2417.0	2390.5	2369.5	2309.1	2240.6	2044.0
60°	1762.0	1767.3	1877.6	2103.5	2390.3	2582.8	2584.8	2557.6	2463.5	2389.2	2202.0
62.5°	1618.1	1639.8	1751.1	2037.4	2389.2	2649.6	2727.3	2706.5	2594.0	2510.8	2362.1
65°	1384.6	1392.4	1498.6	1811.0	2227.7	2621.7	2855.6	2847.9	2711.7	2629.0	2444.4
67.5°	1011.1	994.4	1105.9	1426.1	1886.1	2458.6	2947.7	2957.4	2802.4	2653.3	2356.8
68°	922.8	927.8	1014.6	1330.9	1796.6	2400.9	2953.7	2968.6	2811.4	2637.5	2308.9
70°	550.0	559.6	637.1	916.3	1366.8	2074.9	2888.2	2922.3	2757.7	2474.2	1997.1
72.5°	140.5	151.9	225.1	410.1	780.7	1462.0	2438.1	2495.7	2394.3	2007.2	1348.2
75°	57.8	60.7	80.4	135.1	290.8	658.6	1607.0	1730.3	1659.8	1201.7	609.3
77.5°	39.9	42.0	51.7	74.9	125.9	223.3	787.9	877.0	790.1	410.1	132.9
80°	28.7	30.4	37.0	49.9	72.3	79.7	256.8	296.9	235.8	90.0	33.0
82.5°	17.1	18.4	27.6	35.5	44.0	38.1	63.9	72.5	68.3	44.7	14.7
85°	8.5	9.9	18.6	25.4	23.7	16.0	19.5	21.7	26.9	27.2	7.9
87.5°	0.6	1.1	10.9	15.3	6.6	3.7	5.7	7.0	9.6	13.4	3.3
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°	462.6	462.6	462.6	462.6	462.6	462.6	462.6	462.6	462.6	462.6	462.6
2.5°	463.9	464.1	462.8	462.2	462.6	460.4	459.5	459.8	459.8	460.4	459.5
5°	468.5	468.5	466.3	463.3	461.7	457.4	454.7	453.9	453.4	453.0	452.3
7.5°	478.4	477.3	473.5	467.0	461.5	452.3	445.3	441.6	439.8	439.0	438.5
10°	494.4	492.4	486.0	474.0	461.3	444.9	429.6	418.8	409.8	406.1	403.9
12.5°	516.0	513.0	502.2	482.3	460.0	429.8	396.7	364.8	335.2	323.1	317.0
15°	540.8	536.6	519.5	489.3	452.5	395.8	323.8	268.0	227.0	211.5	204.9
17.5°	566.0	560.5	534.6	493.7	429.8	325.3	227.2	171.6	144.1	136.8	134.2
20°	591.4	583.3	547.6	490.4	378.7	234.5	149.8	125.4	117.4	115.2	114.5
22.5°	615.6	603.0	559.4	477.5	299.9	157.4	118.5	110.8	108.2	107.0	106.6
25°	636.5	619.1	569.7	437.7	212.2	118.9	106.8	104.2	100.9	98.5	98.7
27.5°	656.2	635.1	576.0	372.2	141.6	101.6	98.9	95.4	89.3	85.8	85.8
30°	680.0	656.4	580.6	286.4	104.2	89.8	87.6	82.3	74.0	69.4	69.4
32.5°	715.7	688.8	577.6	201.0	86.3	79.0	73.8	66.5	57.4	53.0	52.8
35°	770.4	738.9	556.7	131.8	76.2	68.7	60.4	51.4	43.4	39.8	39.6
37.5°	844.0	805.9	509.5	94.2	68.3	59.1	49.1	39.2	33.3	30.9	30.7
40°	939.5	883.8	442.2	76.4	60.9	49.9	37.9	30.4	26.3	24.5	24.7
42.5°	1054.2	967.2	361.3	65.9	53.8	41.0	29.6	23.9	21.4	20.1	19.7
45°	1181.6	1049.4	276.7	58.7	46.6	33.1	23.2	19.0	16.9	16.2	16.2
47.5°	1321.7	1129.5	202.5	52.5	38.8	25.6	18.6	15.5	13.8	13.3	13.1
50°	1448.9	1185.1	146.0	45.8	31.8	20.2	15.1	12.9	11.8	11.0	11.0
52.5°	1554.9	1202.6	107.5	38.7	25.8	16.2	12.5	11.0	9.9	9.4	9.4
55°	1648.2	1195.4	79.9	31.8	20.8	13.3	10.7	9.4	8.5	7.9	7.9
57.5°	1737.7	1172.2	59.6	26.0	16.8	10.7	9.0	7.9	7.0	6.6	6.6
60°	1810.8	1133.6	44.4	21.0	13.4	8.7	7.5	6.4	5.7	5.2	5.2
62.5°	1870.1	1090.9	32.6	17.3	10.7	6.8	5.9	5.3	4.2	3.7	3.7
65°	1870.4	1020.0	24.5	14.4	8.3	5.3	4.4	4.2	2.8	2.2	2.0
67.5°	1735.1	879.3	18.8	12.3	6.4	4.0	3.3	3.5	1.5	0.9	0.7
68°	1686.0	843.6	17.7	12.1	6.1	3.9	3.1	3.5	1.3	0.7	0.6
70°	1421.5	671.2	14.2	11.8	5.3	2.9	2.6	3.5	1.1	0.6	0.4
72.5°	909.2	389.5	10.5	9.4	4.0	2.2	1.7	3.1	1.1	0.4	0.2
75°	386.9	120.8	7.2	6.6	2.4	1.7	1.1	2.0	0.7	0.2	0.0
77.5°	81.5	27.2	4.2	4.0	1.7	1.1	0.7	0.6	0.2	0.0	0.0
80°	21.0	7.9	2.2	2.0	0.9	0.6	0.4	0.0	0.0	0.0	0.0
82.5°	6.6	3.1	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.3	1.8	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.6	0.2	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)