

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: P348826

Luminaire Tested: **ARCH-N-PA1-60-740-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348826  
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-PA1-60-740-U-T3-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5363 lumens  
Efficiency: N/A  
Efficacy: 86.5 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 - G2

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

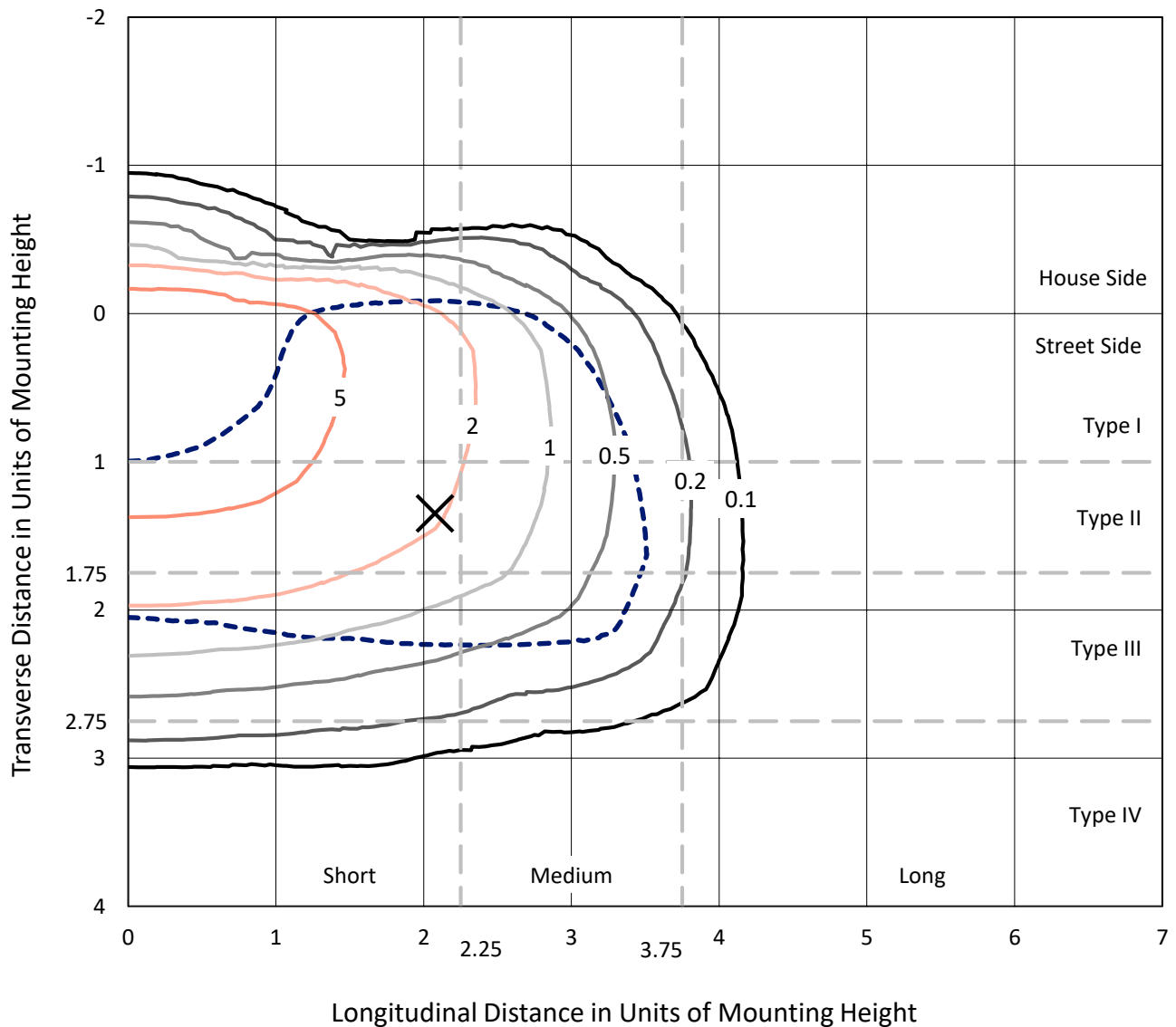


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

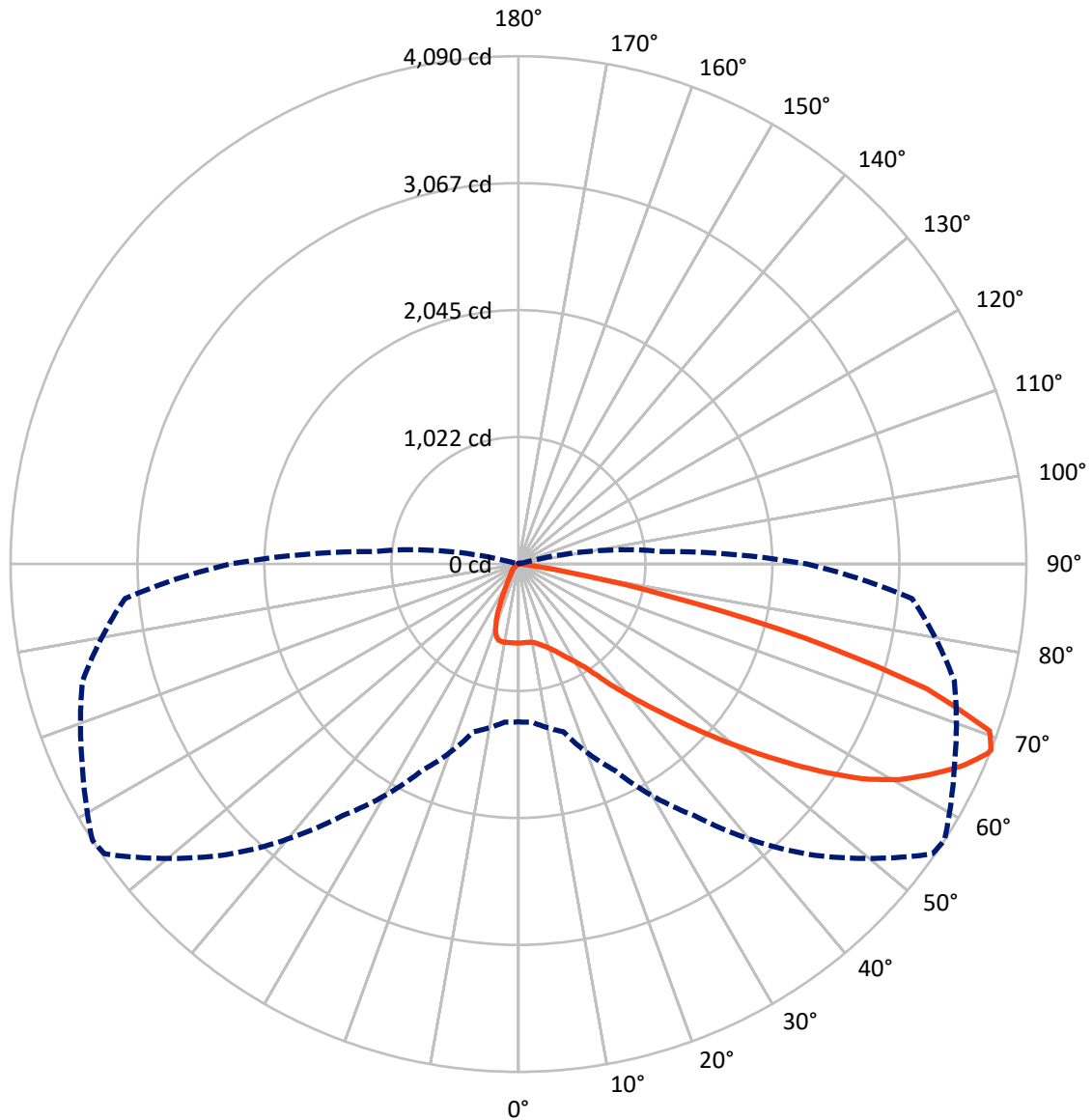


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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



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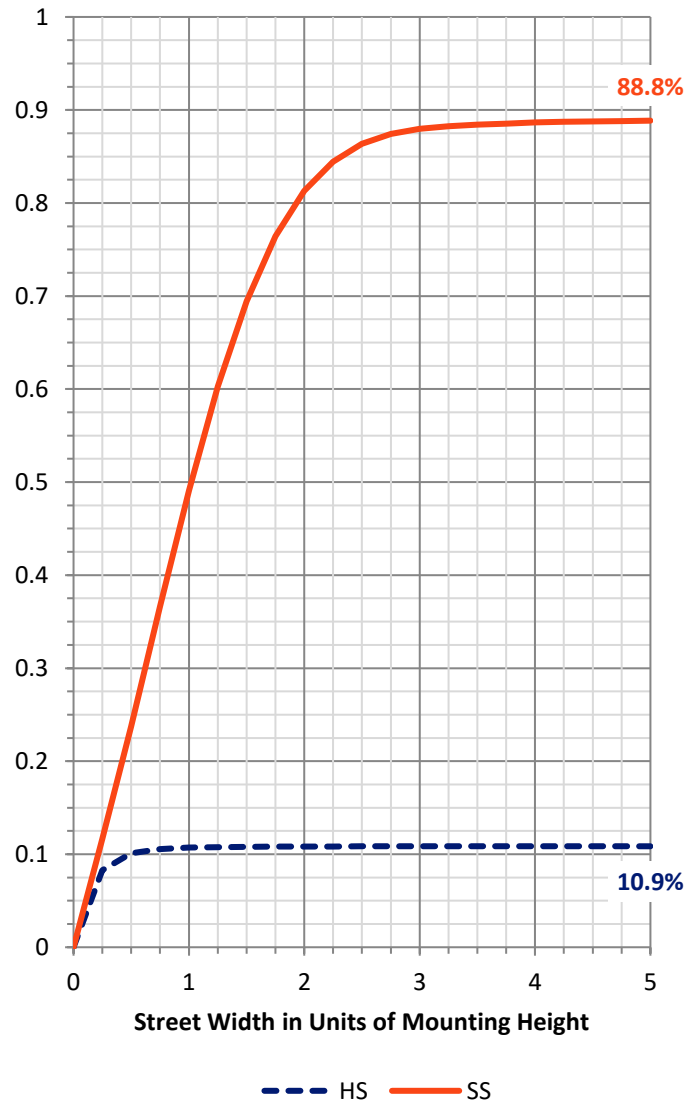
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	588.1	0.0	588.1
	% Fixture	11.0	0.0	11.0
<b>Street Side</b>	Lumens	4774.9	0.0	4774.9
	% Fixture	89.0	0.0	89.0
<b>Total</b>	Lumens	5363.0	0.0	5363.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.6	1.1
10°-20°	165.3	3.1
20°-30°	285.1	5.3
30°-40°	492.1	9.2
40°-50°	841.7	15.7
50°-60°	1346.6	25.1
60°-70°	1555.9	29.0
70°-80°	594.5	11.1
80°-90°	22.3	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°	5363.0	100.0
0°-180°	5363.0	100.0

**Coefficient of Utilization**



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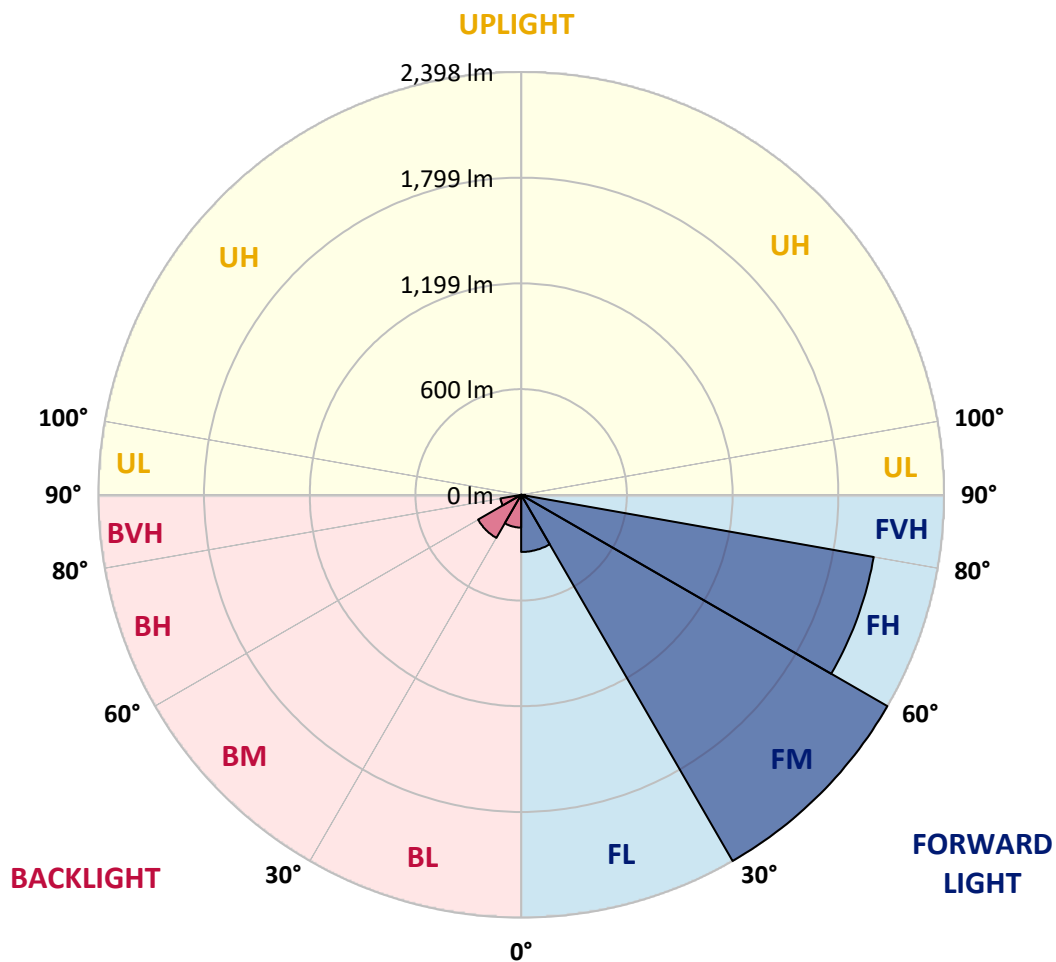
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	324.1	6.0			
FM	(30°-60°)	2398.3	44.7			
FH	(60°-80°)	2030.6	37.9			G2/5000
FVH	(80°-90°)	21.9	0.4			G1/100
BL	(0°-30°)	185.9	3.5	B1/500		
BM	(30°-60°)	282.1	5.3	B1/1000		
BH	(60°-80°)	119.8	2.2	B1/500		G1/500
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: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3
2.5°	622.3	625.1	627.1	628.4	629.9	633.2	634.2	635.7	636.5	636.5	638.3
5°	597.7	600.7	605.1	608.6	615.7	624.8	631.4	634.0	638.5	642.6	644.9
7.5°	574.9	578.4	583.5	591.9	604.0	618.8	632.4	636.0	644.9	653.5	657.8
10°	560.2	563.0	569.6	581.5	597.5	618.0	637.3	641.6	656.8	671.2	679.4
12.5°	555.1	557.6	564.5	577.9	597.7	621.8	648.4	654.8	677.1	698.1	709.5
15°	562.5	563.0	570.3	583.0	602.5	631.2	666.9	674.5	702.7	730.1	744.3
17.5°	590.9	588.6	592.4	598.0	613.4	643.6	686.5	697.9	735.4	767.6	781.0
20°	661.9	661.9	653.2	638.0	638.3	662.9	712.8	725.8	771.7	808.9	821.1
22.5°	783.3	781.0	763.8	726.5	692.3	696.1	745.0	761.8	815.3	855.1	859.2
25°	929.4	926.6	900.0	847.5	788.2	749.9	788.7	807.9	867.3	902.5	894.2
27.5°	1084.1	1081.8	1055.4	990.3	905.8	835.6	840.6	858.9	920.3	955.0	928.4
30°	1234.0	1234.7	1208.6	1141.7	1046.0	944.9	906.6	917.2	971.7	1007.0	969.0
32.5°	1376.5	1377.5	1354.9	1280.1	1190.8	1071.9	997.9	995.1	1031.6	1066.3	1022.7
35°	1503.5	1506.1	1490.6	1432.5	1337.9	1213.4	1116.3	1109.7	1116.5	1155.9	1105.1
37.5°	1626.0	1627.5	1615.9	1566.9	1487.8	1368.9	1265.9	1256.5	1241.8	1272.0	1213.9
40°	1760.2	1756.3	1742.9	1698.5	1630.6	1540.5	1426.7	1410.5	1384.8	1411.7	1356.9
42.5°	1884.9	1880.6	1882.9	1832.7	1775.4	1717.0	1614.1	1586.2	1571.2	1602.2	1532.4
45°	2040.9	2038.6	2046.2	2002.6	1956.2	1913.8	1828.9	1798.4	1791.9	1828.1	1744.7
47.5°	2194.8	2200.4	2224.0	2205.5	2186.7	2149.4	2056.3	2042.6	2046.7	2090.6	1968.6
50°	2323.1	2329.7	2394.4	2415.7	2442.8	2421.0	2327.7	2319.3	2335.3	2374.8	2209.5
52.5°	2415.9	2429.4	2509.8	2607.9	2706.8	2721.5	2628.4	2620.8	2642.4	2648.5	2395.6
55°	2480.3	2492.3	2583.3	2762.8	2964.2	3027.6	2969.8	2940.3	2936.3	2876.2	2591.4
57.5°	2491.8	2490.5	2621.3	2863.0	3166.0	3329.6	3293.1	3264.2	3181.0	3086.7	2815.8
60°	2427.3	2434.7	2586.6	2897.7	3292.8	3558.1	3560.9	3523.3	3393.8	3291.3	3033.4
62.5°	2229.0	2259.0	2412.4	2806.7	3291.3	3650.1	3757.2	3728.5	3573.6	3458.9	3254.0
65°	1907.5	1918.1	2064.5	2494.8	3068.9	3611.6	3933.9	3923.3	3735.6	3621.7	3367.4
67.5°	1393.0	1369.9	1523.6	1964.5	2598.3	3386.9	4060.7	4074.1	3860.6	3655.2	3246.7
68°	1271.2	1278.1	1397.8	1833.4	2475.0	3307.5	4069.1	4089.6	3873.0	3633.4	3180.8
70°	757.7	770.9	877.7	1262.4	1882.9	2858.4	3978.8	4025.7	3799.0	3408.5	2751.2
72.5°	193.5	209.2	310.1	565.0	1075.5	2014.0	3358.8	3438.1	3298.4	2765.1	1857.3
75°	79.6	83.7	110.8	186.1	400.7	907.3	2213.8	2383.7	2286.6	1655.4	839.4
77.5°	55.0	57.8	71.3	103.2	173.5	307.6	1085.4	1208.1	1088.4	565.0	183.1
80°	39.6	41.8	51.0	68.7	99.7	109.8	353.8	409.0	324.8	124.0	45.4
82.5°	23.6	25.4	38.0	48.9	60.6	52.5	88.0	99.9	94.1	61.6	20.3
85°	11.7	13.7	25.6	35.0	32.7	22.1	26.9	29.9	37.0	37.5	10.9
87.5°	0.8	1.5	15.0	21.0	9.1	5.1	7.9	9.6	13.2	18.5	4.6
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°	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3
2.5°	639.0	639.3	637.5	636.8	637.3	634.2	633.0	633.5	633.5	634.2	633.0
5°	645.4	645.4	642.3	638.3	636.0	630.2	626.4	625.3	624.6	624.1	623.1
7.5°	659.1	657.6	652.2	643.4	635.7	623.1	613.4	608.4	605.8	604.8	604.0
10°	681.1	678.3	669.5	653.0	635.5	612.9	591.9	576.9	564.5	559.4	556.4
12.5°	710.8	706.7	691.8	664.4	633.7	592.1	546.5	502.6	461.8	445.0	436.7
15°	745.0	739.2	715.6	674.0	623.3	545.2	446.1	369.2	312.7	291.4	282.2
17.5°	779.8	772.2	736.4	680.1	592.1	448.1	312.9	236.3	198.6	188.4	184.9
20°	814.8	803.6	754.4	675.6	521.6	323.1	206.4	172.7	161.8	158.7	157.7
22.5°	848.0	830.8	770.7	657.8	413.1	216.8	163.3	152.7	149.1	147.3	146.8
25°	876.9	852.8	784.9	603.0	292.4	163.8	147.1	143.5	139.0	135.7	135.9
27.5°	904.0	874.9	793.5	512.8	195.0	140.0	136.2	131.4	123.0	118.2	118.2
30°	936.8	904.3	799.8	394.6	143.5	123.8	120.7	113.4	101.9	95.6	95.6
32.5°	985.9	948.9	795.8	276.9	118.9	108.8	101.7	91.5	79.1	73.0	72.8
35°	1061.3	1017.9	766.8	181.6	105.0	94.6	83.2	70.8	59.8	54.8	54.5
37.5°	1162.7	1110.2	701.9	129.8	94.1	81.4	67.7	54.0	45.9	42.6	42.3
40°	1294.3	1217.5	609.1	105.2	83.9	68.7	52.2	41.8	36.3	33.7	34.0
42.5°	1452.3	1332.3	497.8	90.8	74.0	56.6	40.8	33.0	29.4	27.6	27.1
45°	1627.8	1445.7	381.1	80.9	64.2	45.6	32.0	26.1	23.3	22.3	22.3
47.5°	1820.8	1556.0	278.9	72.3	53.5	35.2	25.6	21.3	19.0	18.3	18.0
50°	1996.0	1632.6	201.1	63.1	43.9	27.9	20.8	17.8	16.2	15.2	15.2
52.5°	2142.1	1656.7	148.1	53.3	35.5	22.3	17.2	15.2	13.7	12.9	12.9
55°	2270.6	1646.8	110.1	43.9	28.7	18.3	14.7	12.9	11.7	10.9	10.9
57.5°	2393.9	1614.8	82.2	35.8	23.1	14.7	12.4	10.9	9.6	9.1	9.1
60°	2494.5	1561.6	61.1	28.9	18.5	11.9	10.4	8.9	7.9	7.1	7.1
62.5°	2576.2	1502.8	44.9	23.8	14.7	9.4	8.1	7.4	5.8	5.1	5.1
65°	2576.7	1405.1	33.7	19.8	11.4	7.4	6.1	5.8	3.8	3.0	2.8
67.5°	2390.3	1211.4	25.9	17.0	8.9	5.6	4.6	4.8	2.0	1.3	1.0
68°	2322.6	1162.2	24.3	16.7	8.4	5.3	4.3	4.8	1.8	1.0	0.8
70°	1958.2	924.6	19.5	16.2	7.4	4.1	3.6	4.8	1.5	0.8	0.5
72.5°	1252.5	536.6	14.5	12.9	5.6	3.0	2.3	4.3	1.5	0.5	0.3
75°	533.0	166.4	9.9	9.1	3.3	2.3	1.5	2.8	1.0	0.3	0.0
77.5°	112.3	37.5	5.8	5.6	2.3	1.5	1.0	0.8	0.3	0.0	0.0
80°	28.9	10.9	3.0	2.8	1.3	0.8	0.5	0.0	0.0	0.0	0.0
82.5°	9.1	4.3	1.8	1.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	2.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	0.8	0.3	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)