

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: P348847

Luminaire Tested: **ARCH-N-PA1-60-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348847
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-PA1-60-827-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3942 lumens
Efficiency: N/A
Efficacy: 63.6 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): 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

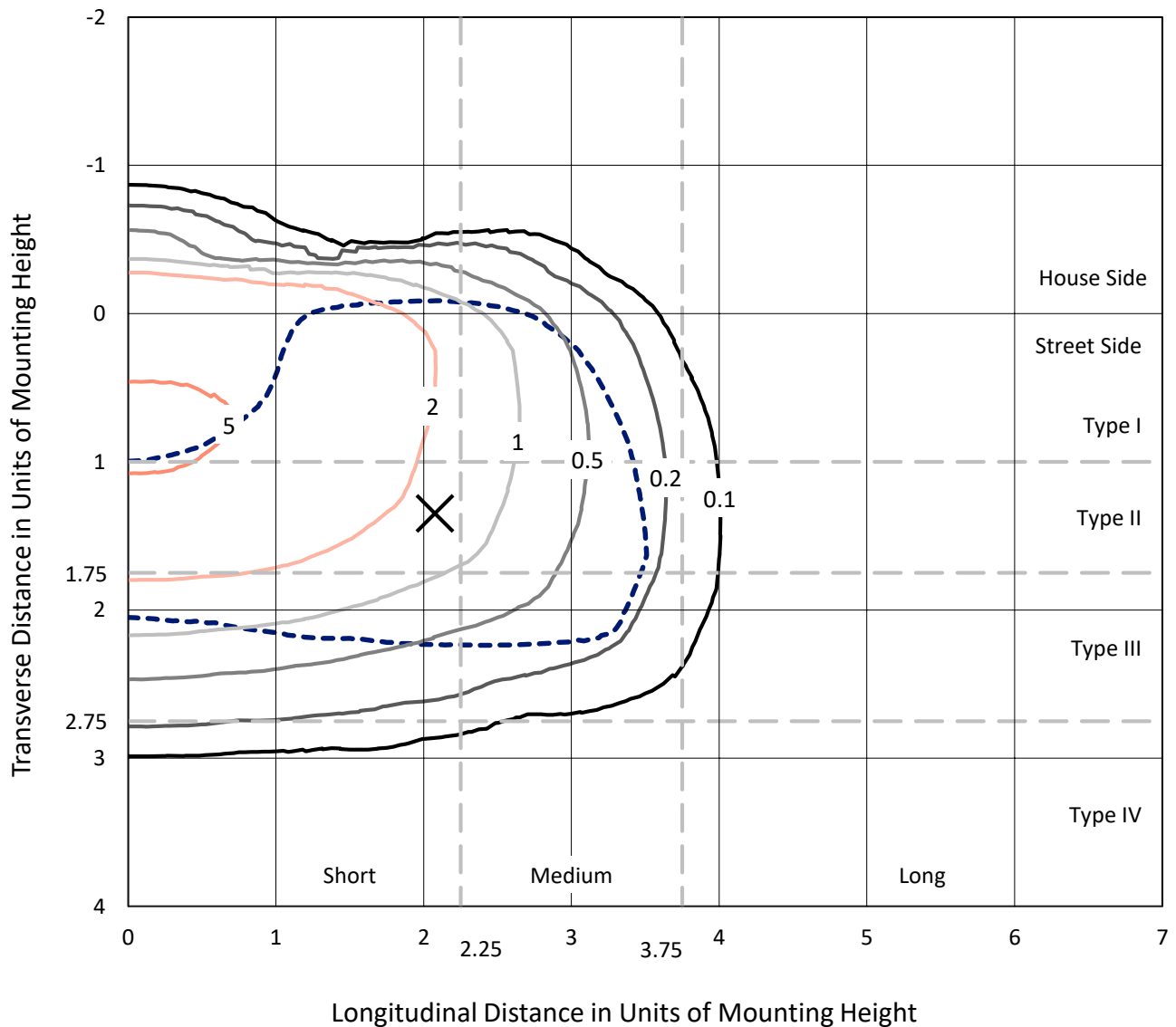


REPORT NUMBER: P348847

CATALOG NUMBER: ARCH-N-PA1-60-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

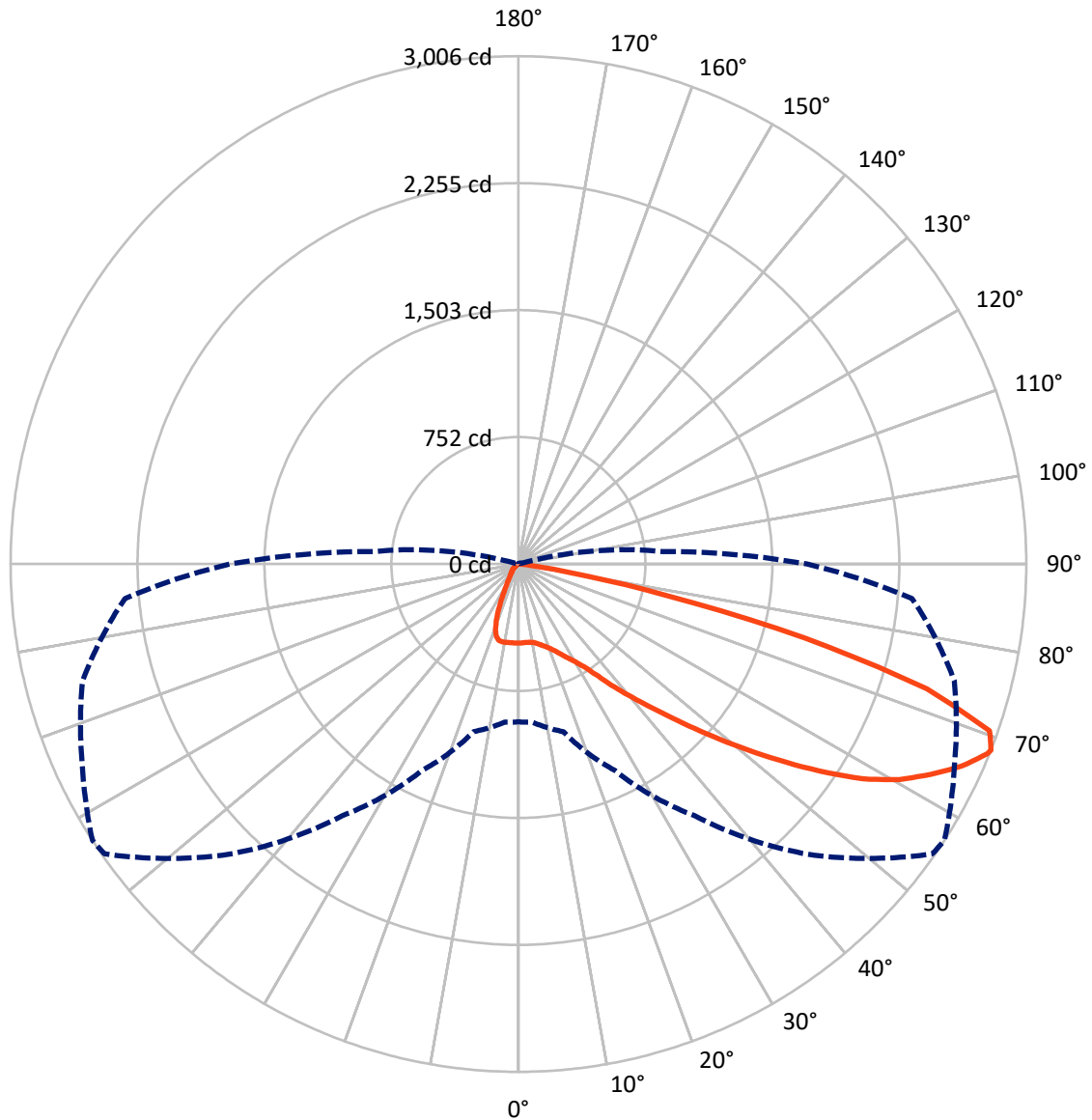


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P348847

CATALOG NUMBER: ARCH-N-PA1-60-827-U-T3-HSS

Luminous Intensity Polar Plot



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



REPORT NUMBER: P348847

CATALOG NUMBER: ARCH-N-PA1-60-827-U-T3-HSS

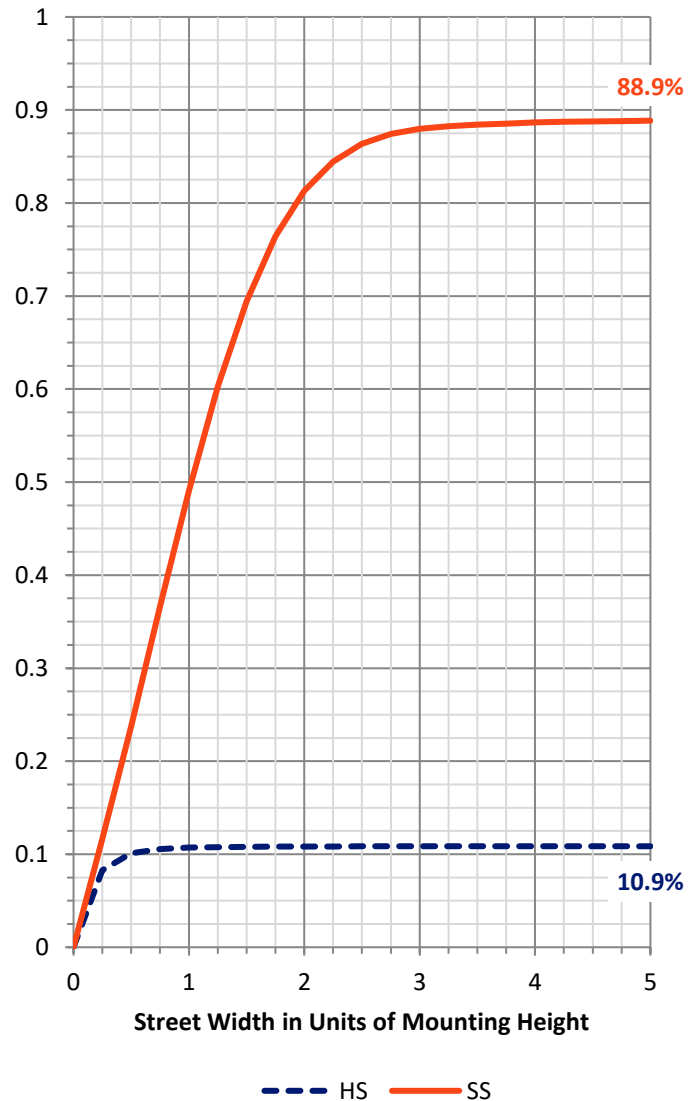
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	432.3	0.0	432.3
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	3509.7	0.0	3509.7
	% Fixture	89.0	0.0	89.0
Total	Lumens	3942.0	0.0	3942.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	1.1
10°-20°	121.5	3.1
20°-30°	209.6	5.3
30°-40°	361.7	9.2
40°-50°	618.7	15.7
50°-60°	989.8	25.1
60°-70°	1143.6	29.0
70°-80°	437.0	11.1
80°-90°	16.4	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°	3942.0	100.0
0°-180°	3942.0	100.0



REPORT NUMBER: P348847

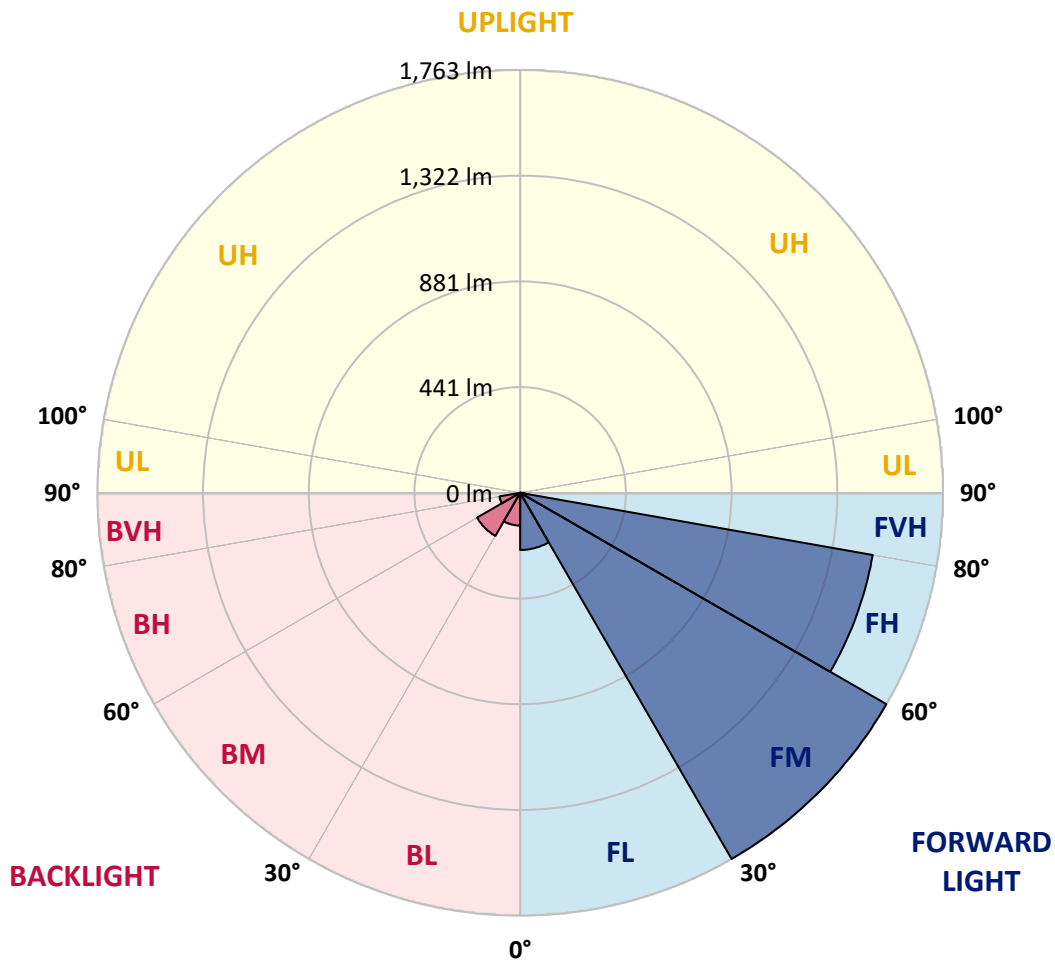
CATALOG NUMBER: ARCH-N-PA1-60-827-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	238.3	6.0			
FM (30°-60°)	1762.8	44.7			
FH (60°-80°)	1492.6	37.9			G1/1800
FVH (80°-90°)	16.1	0.4			G1/100
BL (0°-30°)	136.6	3.5	B1/500		
BM (30°-60°)	207.3	5.3	B0/220		
BH (60°-80°)	88.0	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





REPORT NUMBER: P348847

CATALOG NUMBER: ARCH-N-PA1-60-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	468.4	468.4	468.4	468.4	468.4	468.4	468.4	468.4	468.4	468.4	468.4
2.5°	457.4	459.5	461.0	461.9	463.0	465.4	466.2	467.3	467.9	467.9	469.2
5°	439.3	441.6	444.7	447.4	452.6	459.3	464.1	466.0	469.3	472.3	474.0
7.5°	422.6	425.2	428.9	435.0	444.0	454.8	464.9	467.5	474.0	480.3	483.5
10°	411.7	413.8	418.6	427.4	439.1	454.2	468.4	471.6	482.8	493.4	499.4
12.5°	408.0	409.9	414.9	424.8	439.3	457.0	476.6	481.3	497.7	513.1	521.5
15°	413.4	413.8	419.2	428.5	442.9	463.9	490.2	495.8	516.5	536.6	547.1
17.5°	434.3	432.6	435.4	439.5	450.9	473.1	504.6	513.0	540.5	564.2	574.1
20°	486.5	486.5	480.2	469.0	469.2	487.2	524.0	533.5	567.2	594.6	603.6
22.5°	575.8	574.1	561.4	534.0	508.9	511.7	547.6	559.9	599.3	628.5	631.5
25°	683.1	681.1	661.5	622.9	579.3	551.2	579.7	593.9	637.5	663.4	657.2
27.5°	796.8	795.2	775.8	727.9	665.8	614.2	617.9	631.3	676.4	702.0	682.4
30°	907.0	907.6	888.4	839.2	768.9	694.5	666.4	674.2	714.3	740.2	712.2
32.5°	1011.8	1012.5	995.9	940.9	875.3	787.9	733.5	731.4	758.3	783.8	751.7
35°	1105.1	1107.0	1095.6	1053.0	983.4	891.9	820.5	815.7	820.7	849.6	812.3
37.5°	1195.2	1196.3	1187.7	1151.7	1093.6	1006.2	930.5	923.6	912.8	935.0	892.3
40°	1293.8	1291.0	1281.1	1248.5	1198.5	1132.4	1048.7	1036.7	1017.9	1037.7	997.4
42.5°	1385.5	1382.3	1384.0	1347.1	1305.0	1262.1	1186.4	1165.9	1154.9	1177.7	1126.4
45°	1500.1	1498.4	1504.0	1472.0	1437.9	1406.7	1344.3	1321.9	1317.1	1343.7	1282.4
47.5°	1613.3	1617.4	1634.7	1621.1	1607.3	1579.9	1511.5	1501.4	1504.4	1536.6	1447.0
50°	1707.6	1712.4	1760.0	1775.6	1795.6	1779.5	1710.9	1704.8	1716.5	1745.6	1624.1
52.5°	1775.8	1785.7	1844.8	1916.9	1989.6	2000.4	1932.0	1926.4	1942.2	1946.7	1760.9
55°	1823.1	1831.9	1898.8	2030.8	2178.8	2225.4	2182.9	2161.3	2158.3	2114.1	1904.8
57.5°	1831.5	1830.6	1926.8	2104.4	2327.2	2447.4	2420.5	2399.3	2338.2	2268.8	2069.7
60°	1784.2	1789.6	1901.2	2129.9	2420.4	2615.3	2617.4	2589.8	2494.5	2419.2	2229.7
62.5°	1638.4	1660.4	1773.2	2063.0	2419.2	2683.0	2761.6	2740.6	2626.7	2542.4	2391.8
65°	1402.1	1409.9	1517.5	1833.8	2255.8	2654.7	2891.6	2883.7	2745.8	2662.1	2475.2
67.5°	1023.9	1006.9	1119.9	1444.0	1909.8	2489.5	2984.8	2994.6	2837.7	2686.7	2386.4
68°	934.4	939.4	1027.4	1347.6	1819.2	2431.2	2990.9	3006.0	2846.8	2670.7	2338.0
70°	557.0	566.6	645.1	927.9	1384.0	2101.1	2924.6	2959.0	2792.4	2505.4	2022.2
72.5°	142.2	153.8	228.0	415.3	790.5	1480.4	2468.8	2527.2	2424.5	2032.5	1365.2
75°	58.5	61.5	81.5	136.8	294.5	666.9	1627.2	1752.1	1680.7	1216.8	617.0
77.5°	40.4	42.5	52.4	75.9	127.5	226.1	797.8	888.0	800.0	415.3	134.6
80°	29.1	30.8	37.5	50.5	73.3	80.7	260.0	300.7	238.8	91.1	33.4
82.5°	17.3	18.6	28.0	36.0	44.5	38.6	64.7	73.4	69.2	45.3	14.9
85°	8.6	10.1	18.8	25.7	24.0	16.2	19.8	22.0	27.2	27.6	8.0
87.5°	0.6	1.1	11.0	15.5	6.7	3.7	5.8	7.1	9.7	13.6	3.4
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: P348847

CATALOG NUMBER: ARCH-N-PA1-60-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	468.4	468.4	468.4	468.4	468.4	468.4	468.4	468.4	468.4	468.4	468.4
2.5°	469.7	469.9	468.6	468.0	468.4	466.2	465.2	465.6	465.6	466.2	465.2
5°	474.4	474.4	472.1	469.2	467.5	463.2	460.4	459.7	459.1	458.7	458.0
7.5°	484.4	483.3	479.4	472.9	467.3	458.0	450.9	447.2	445.3	444.6	444.0
10°	500.7	498.6	492.1	480.0	467.1	450.5	435.0	424.1	414.9	411.2	409.0
12.5°	522.5	519.5	508.5	488.4	465.8	435.2	401.7	369.4	339.4	327.1	321.0
15°	547.6	543.3	526.0	495.4	458.2	400.8	327.9	271.4	229.8	214.2	207.5
17.5°	573.2	567.6	541.3	499.9	435.2	329.4	230.0	173.7	145.9	138.5	135.9
20°	598.9	590.7	554.5	496.6	383.4	237.5	151.7	126.9	118.9	116.7	115.9
22.5°	623.3	610.6	566.5	483.5	303.6	159.4	120.0	112.2	109.6	108.3	107.9
25°	644.6	626.9	576.9	443.3	214.9	120.4	108.1	105.5	102.1	99.7	99.9
27.5°	664.5	643.1	583.2	376.9	143.3	102.9	100.1	96.6	90.4	86.9	86.9
30°	688.5	664.7	587.9	290.0	105.5	91.0	88.7	83.3	74.9	70.3	70.3
32.5°	724.7	697.5	584.9	203.5	87.4	80.0	74.7	67.3	58.2	53.7	53.5
35°	780.1	748.2	563.7	133.5	77.2	69.5	61.1	52.0	44.0	40.3	40.1
37.5°	854.6	816.0	515.9	95.4	69.2	59.8	49.8	39.7	33.7	31.3	31.1
40°	951.4	894.9	447.7	77.4	61.7	50.5	38.4	30.8	26.7	24.8	25.0
42.5°	1067.5	979.3	365.9	66.7	54.4	41.6	30.0	24.2	21.6	20.3	19.9
45°	1196.5	1062.6	280.2	59.5	47.2	33.6	23.5	19.2	17.1	16.4	16.4
47.5°	1338.3	1143.7	205.0	53.1	39.3	25.9	18.8	15.7	14.0	13.4	13.2
50°	1467.1	1200.0	147.8	46.4	32.2	20.5	15.3	13.0	11.9	11.2	11.2
52.5°	1574.5	1217.7	108.9	39.1	26.1	16.4	12.7	11.2	10.1	9.5	9.5
55°	1669.0	1210.5	80.9	32.2	21.1	13.4	10.8	9.5	8.6	8.0	8.0
57.5°	1759.6	1187.0	60.4	26.3	17.0	10.8	9.1	8.0	7.1	6.7	6.7
60°	1833.6	1147.8	44.9	21.2	13.6	8.8	7.6	6.5	5.8	5.2	5.2
62.5°	1893.6	1104.6	33.0	17.5	10.8	6.9	6.0	5.4	4.3	3.7	3.7
65°	1894.0	1032.8	24.8	14.5	8.4	5.4	4.5	4.3	2.8	2.2	2.1
67.5°	1757.0	890.4	19.0	12.5	6.5	4.1	3.4	3.5	1.5	0.9	0.7
68°	1707.2	854.3	17.9	12.3	6.2	3.9	3.2	3.5	1.3	0.7	0.6
70°	1439.4	679.6	14.4	11.9	5.4	3.0	2.6	3.5	1.1	0.6	0.4
72.5°	920.6	394.4	10.6	9.5	4.1	2.2	1.7	3.2	1.1	0.4	0.2
75°	391.8	122.3	7.3	6.7	2.4	1.7	1.1	2.1	0.7	0.2	0.0
77.5°	82.6	27.6	4.3	4.1	1.7	1.1	0.7	0.6	0.2	0.0	0.0
80°	21.2	8.0	2.2	2.1	0.9	0.6	0.4	0.0	0.0	0.0	0.0
82.5°	6.7	3.2	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	1.9	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	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)