

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: P400249

Luminaire Tested: **ARCH-L-PA3-250-827-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-250-827-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18013 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

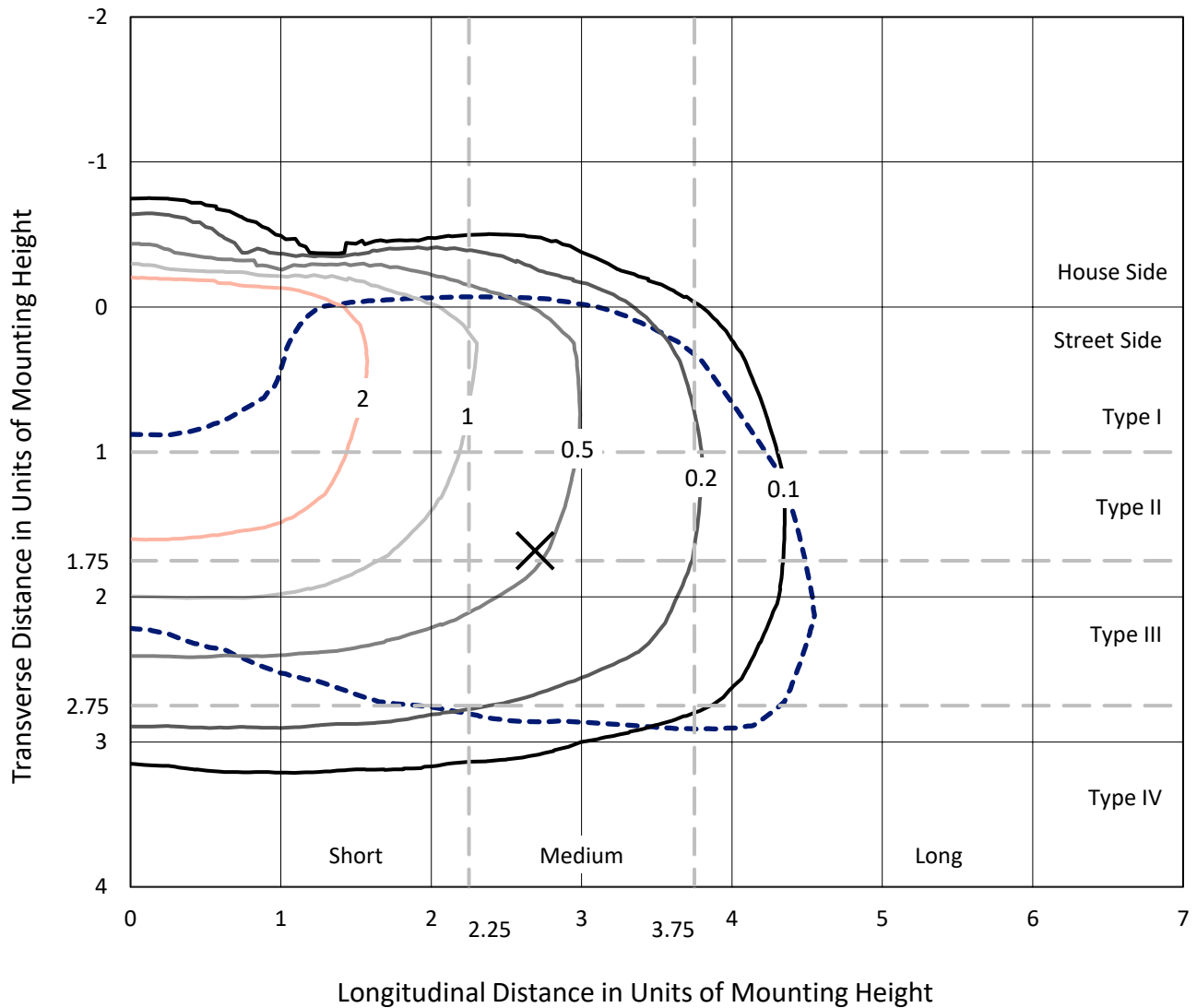
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400249
 CATALOG NUMBER: ARCH-L-PA3-250-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

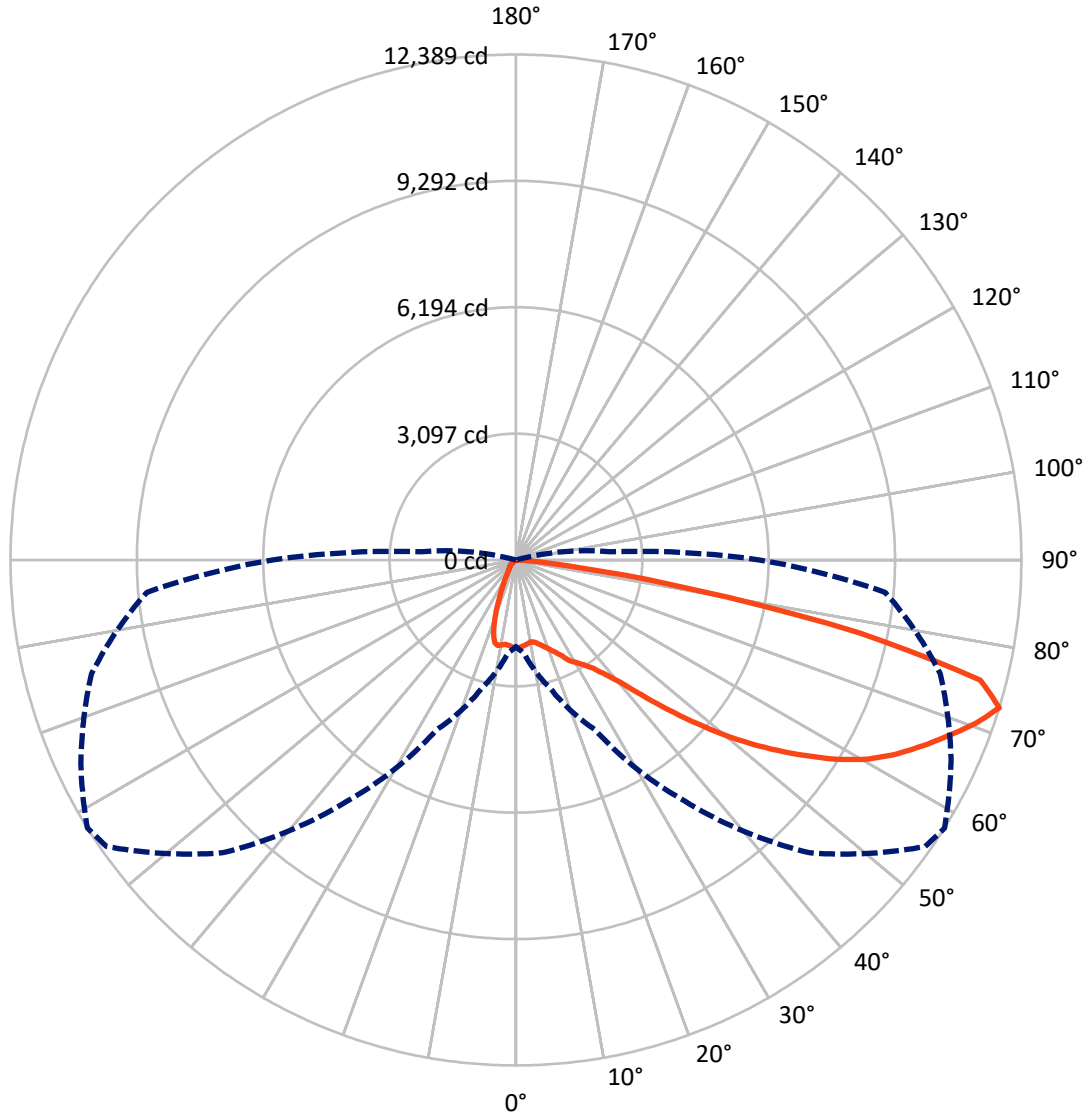
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P400249
CATALOG NUMBER: ARCH-L-PA3-250-827-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P400249
 CATALOG NUMBER: ARCH-L-PA3-250-827-U-T3-HSS

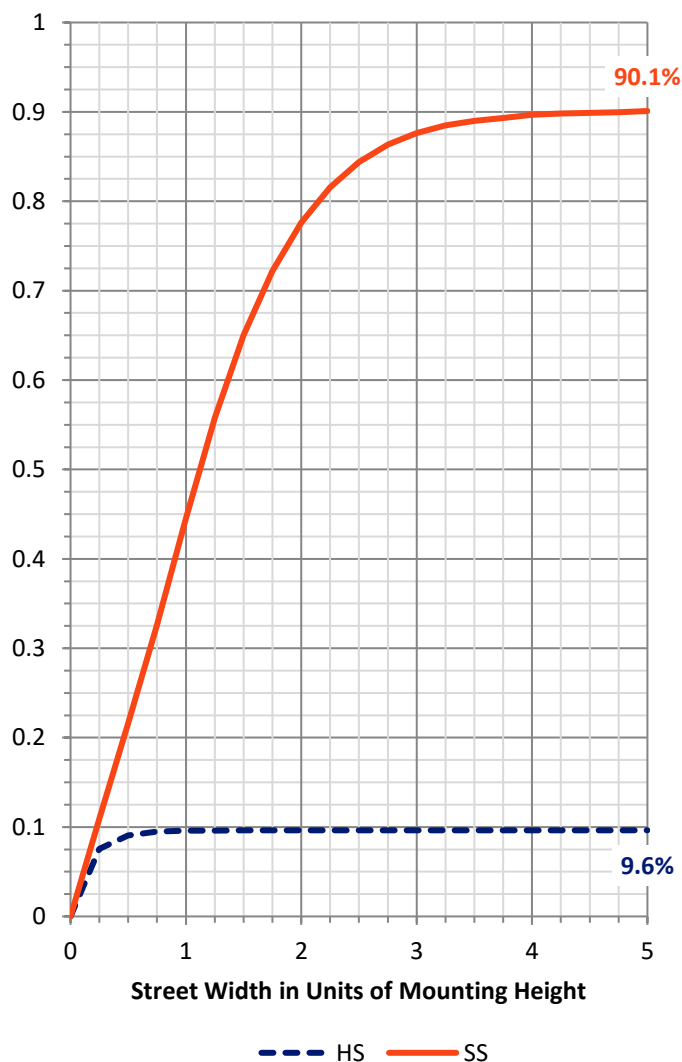
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1751.6	0.0	1751.6
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	16261.4	0.0	16261.4
	% Fixture	90.3	0.0	90.3
Total	Lumens	18013.0	0.0	18013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.4	1.1
10°-20°	516.7	2.9
20°-30°	811.6	4.5
30°-40°	1399.7	7.8
40°-50°	2663.1	14.8
50°-60°	4217.5	23.4
60°-70°	4921.4	27.3
70°-80°	3082.3	17.1
80°-90°	202.3	1.1
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°	18013.0	100.0
0°-180°	18013.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400249

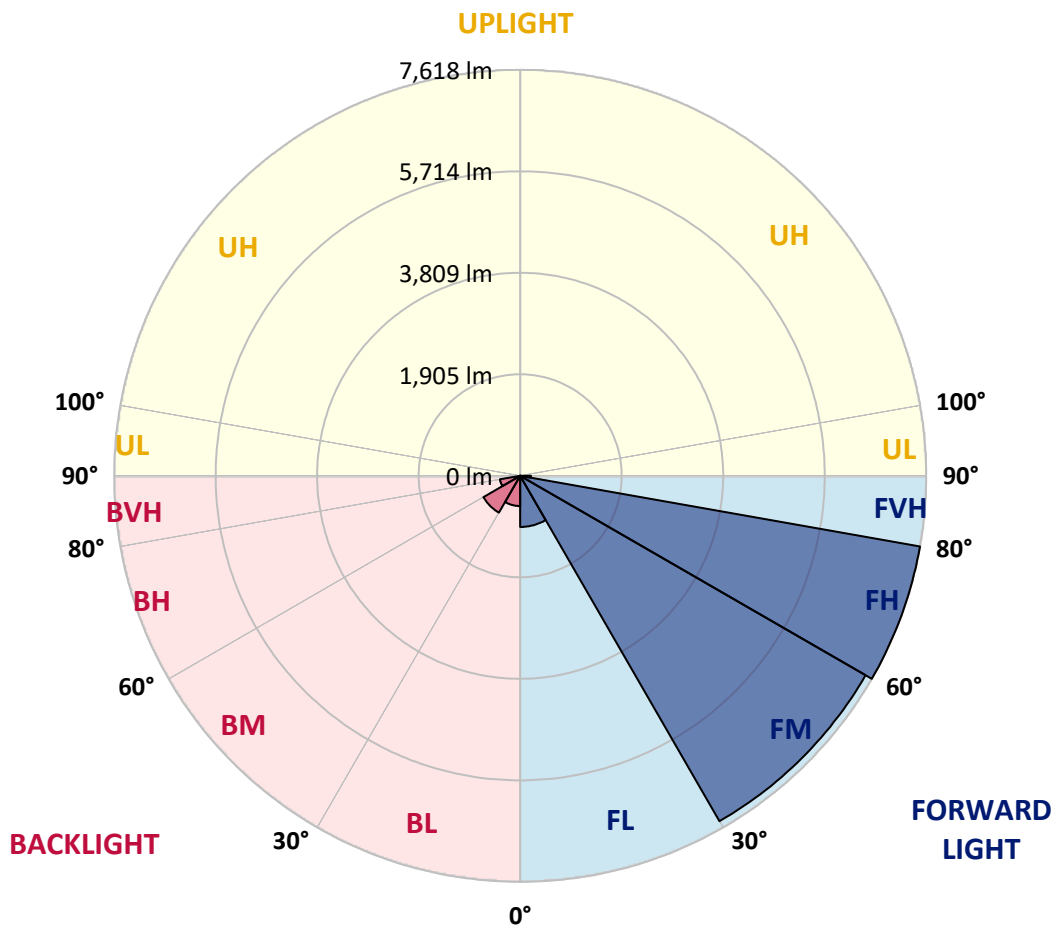
CATALOG NUMBER: ARCH-L-PA3-250-827-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	959.4	5.3			
FM (30°-60°)	7483.4	41.5			
FH (60°-80°)	7618.2	42.3			G4/12000
FVH (80°-90°)	200.4	1.1			G2/225
BL (0°-30°)	567.2	3.1	B2/1000		
BM (30°-60°)	797.0	4.4	B1/1000		
BH (60°-80°)	385.4	2.1	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Medium





REPORT NUMBER: P400249

CATALOG NUMBER: ARCH-L-PA3-250-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2161.5	2161.5	2161.5	2161.5	2161.5	2161.5	2161.5	2161.5	2161.5	2161.5	2161.5
2.5°	2151.8	2142.1	2138.9	2135.7	2138.9	2142.1	2132.5	2142.1	2135.7	2138.9	2145.3
5°	2074.5	2064.8	2061.6	2064.8	2074.5	2090.6	2097.0	2106.7	2106.7	2116.4	2119.6
7.5°	1987.5	1981.1	1977.8	1984.3	2003.6	2039.0	2058.4	2071.3	2084.1	2103.5	2122.8
10°	1939.2	1936.0	1932.7	1942.4	1961.7	1993.9	2019.7	2039.0	2087.4	2142.1	2177.6
12.5°	1907.0	1907.0	1913.4	1932.7	1958.5	1984.3	2045.5	2071.3	2145.3	2229.1	2277.4
15°	1881.2	1881.2	1890.9	1926.3	1961.7	2022.9	2113.1	2142.1	2229.1	2332.2	2396.6
17.5°	1861.9	1868.3	1874.8	1910.2	1977.8	2080.9	2187.2	2229.1	2335.4	2448.1	2519.0
20°	1865.1	1871.5	1874.8	1910.2	2006.8	2148.6	2283.9	2332.2	2454.6	2573.8	2644.6
22.5°	1884.4	1894.1	1897.3	1945.6	2058.4	2219.4	2393.4	2448.1	2580.2	2705.8	2760.6
25°	1965.0	1971.4	1952.1	1993.9	2132.5	2329.0	2535.1	2593.1	2725.2	2841.1	2886.2
27.5°	2238.8	2245.2	2138.9	2090.6	2190.4	2419.1	2709.1	2789.6	2953.9	3031.2	3037.6
30°	2831.5	2837.9	2628.5	2399.8	2329.0	2496.5	2805.7	2918.4	3131.0	3218.0	3179.4
32.5°	3594.9	3588.5	3301.8	2963.5	2657.5	2631.8	2944.2	3063.4	3295.3	3379.1	3350.1
35°	4361.6	4371.2	4126.4	3617.4	3179.4	2886.2	3121.4	3259.9	3540.1	3659.3	3607.8
37.5°	4886.6	4951.0	4844.7	4293.9	3820.4	3356.5	3408.1	3556.2	3907.4	4068.4	3958.9
40°	5627.5	5611.4	5353.7	4947.8	4529.1	4052.3	3871.9	3942.8	4345.4	4561.3	4390.5
42.5°	6622.9	6590.7	6152.6	5756.4	5289.3	4899.5	4532.3	4519.4	4848.0	5099.2	4851.2
45°	7524.8	7476.5	7176.9	6793.6	6281.4	5833.7	5337.6	5224.8	5453.6	5666.2	5376.2
47.5°	8243.1	8162.6	7950.0	7747.1	7621.4	6925.7	6181.6	6010.8	6126.8	6284.6	5875.5
50°	9093.6	8871.3	8562.0	8439.6	8700.6	8162.6	6993.3	6829.0	6822.6	6912.8	6390.9
52.5°	9480.1	9077.4	8903.5	9006.6	9467.2	9312.6	7869.5	7634.3	7540.9	7550.6	6870.9
55°	9013.0	8967.9	9061.3	9383.5	9985.8	9895.6	8710.2	8420.3	8281.8	8107.9	7331.5
57.5°	8481.5	8620.0	8990.5	9605.7	10643.0	10504.5	9538.1	9209.5	8955.0	8555.6	7843.7
60°	7991.9	8133.6	8745.7	9657.3	11003.7	11090.7	10227.4	9915.0	9538.1	9013.0	8407.4
62.5°	7247.8	7357.3	8217.4	9583.2	10845.9	11432.2	10707.4	10472.2	10121.1	9447.9	9054.9
65°	6410.3	6481.1	7331.5	8990.5	10536.7	11393.5	11103.6	10971.5	10630.1	9902.1	9695.9
67.5°	5492.2	5576.0	6284.6	7924.2	9931.1	11213.1	11477.3	11464.4	11074.6	10404.6	10159.8
70°	4435.6	4442.1	5028.4	6571.3	8874.5	10852.3	11941.1	11970.1	11499.8	10781.5	10179.1
72.5°	2122.8	2296.7	3259.9	4587.0	7212.4	10143.7	12243.9	12388.9	11767.2	10768.6	9080.7
75°	486.4	502.5	950.3	2180.8	4229.5	7785.7	11486.9	11757.5	11116.5	9312.6	6397.4
77.5°	177.2	186.8	267.4	637.8	1626.7	4023.3	8220.6	8616.8	8217.4	6020.5	3024.7
80°	119.2	116.0	138.5	283.5	747.3	1140.3	4203.7	4438.9	4052.3	2055.1	724.8
82.5°	61.2	64.4	96.6	157.8	502.5	396.2	1404.5	1526.9	1256.3	412.3	135.3
85°	29.0	29.0	54.8	99.9	212.6	138.5	312.5	376.9	338.2	180.4	45.1
87.5°	29.0	29.0	51.5	64.4	109.5	58.0	77.3	96.6	90.2	96.6	16.1
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: P400249

CATALOG NUMBER: ARCH-L-PA3-250-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2161.5	2161.5	2161.5	2161.5	2161.5	2161.5	2161.5	2161.5	2161.5	2161.5	2161.5
2.5°	2145.3	2142.1	2138.9	2145.3	2142.1	2148.6	2148.6	2155.0	2155.0	2148.6	2145.3
5°	2116.4	2109.9	2103.5	2103.5	2100.2	2106.7	2126.0	2142.1	2145.3	2135.7	2132.5
7.5°	2119.6	2119.6	2113.1	2100.2	2077.7	2077.7	2077.7	2097.0	2106.7	2100.2	2097.0
10°	2177.6	2180.8	2164.7	2135.7	2097.0	2061.6	1993.9	1894.1	1800.7	1774.9	1765.2
12.5°	2277.4	2280.6	2248.4	2196.9	2116.4	1907.0	1649.3	1410.9	1227.3	1175.8	1166.1
15°	2396.6	2399.8	2341.8	2258.1	2013.3	1526.9	1143.5	873.0	711.9	673.2	670.0
17.5°	2519.0	2512.6	2425.6	2264.5	1707.3	1082.3	695.8	557.3	515.4	505.7	509.0
20°	2638.2	2618.9	2499.7	2145.3	1314.3	708.7	509.0	476.7	467.1	460.6	460.6
22.5°	2747.7	2709.1	2560.9	1910.2	921.3	509.0	454.2	447.8	434.9	425.2	422.0
25°	2857.2	2802.5	2599.5	1604.2	618.5	444.5	428.4	415.5	399.4	386.5	383.3
27.5°	2989.3	2912.0	2580.2	1217.6	463.9	412.3	399.4	380.1	357.6	338.2	331.8
30°	3114.9	3028.0	2470.7	840.7	396.2	380.1	360.8	331.8	302.8	280.2	273.8
32.5°	3272.8	3172.9	2274.2	550.8	344.7	331.8	312.5	277.0	238.4	212.6	206.2
35°	3498.3	3385.5	2022.9	386.5	302.8	280.2	254.5	215.8	173.9	154.6	151.4
37.5°	3813.9	3662.5	1707.3	312.5	267.4	235.2	196.5	157.8	128.8	112.7	109.5
40°	4200.5	3968.6	1356.1	277.0	238.4	196.5	148.2	112.7	93.4	80.5	80.5
42.5°	4619.3	4255.3	998.6	254.5	209.4	161.1	109.5	80.5	67.6	61.2	58.0
45°	5050.9	4509.7	673.2	235.2	183.6	122.4	77.3	54.8	45.1	45.1	41.9
47.5°	5498.7	4680.5	434.9	212.6	154.6	90.2	51.5	38.7	32.2	32.2	32.2
50°	5943.2	4770.7	309.2	193.3	125.6	61.2	38.7	29.0	25.8	25.8	25.8
52.5°	6265.3	4712.7	248.0	167.5	96.6	45.1	29.0	22.5	19.3	19.3	19.3
55°	6545.6	4612.8	215.8	145.0	70.9	32.2	22.5	19.3	16.1	16.1	16.1
57.5°	6832.2	4484.0	193.3	122.4	51.5	22.5	16.1	12.9	12.9	12.9	12.9
60°	7093.2	4264.9	167.5	96.6	35.4	16.1	12.9	9.7	9.7	9.7	9.7
62.5°	7347.6	4078.1	145.0	74.1	25.8	12.9	6.4	6.4	3.2	3.2	3.2
65°	7492.6	3826.8	116.0	48.3	16.1	9.7	3.2	3.2	0.0	0.0	0.0
67.5°	7447.5	3527.3	80.5	29.0	9.7	6.4	3.2	0.0	0.0	0.0	0.0
70°	7135.0	3124.6	48.3	16.1	9.7	6.4	3.2	0.0	0.0	0.0	0.0
72.5°	5975.4	2312.8	29.0	12.9	6.4	3.2	0.0	0.0	0.0	0.0	0.0
75°	3991.1	1063.0	16.1	9.7	3.2	3.2	0.0	0.0	0.0	0.0	0.0
77.5°	1826.4	318.9	9.7	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	367.2	83.8	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	77.3	16.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.1	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	3.2	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)