

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: P399700

Luminaire Tested: **ARCH-L-PA3-180-727-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399700
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-PA3-180-727-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 775mA 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: 16332 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

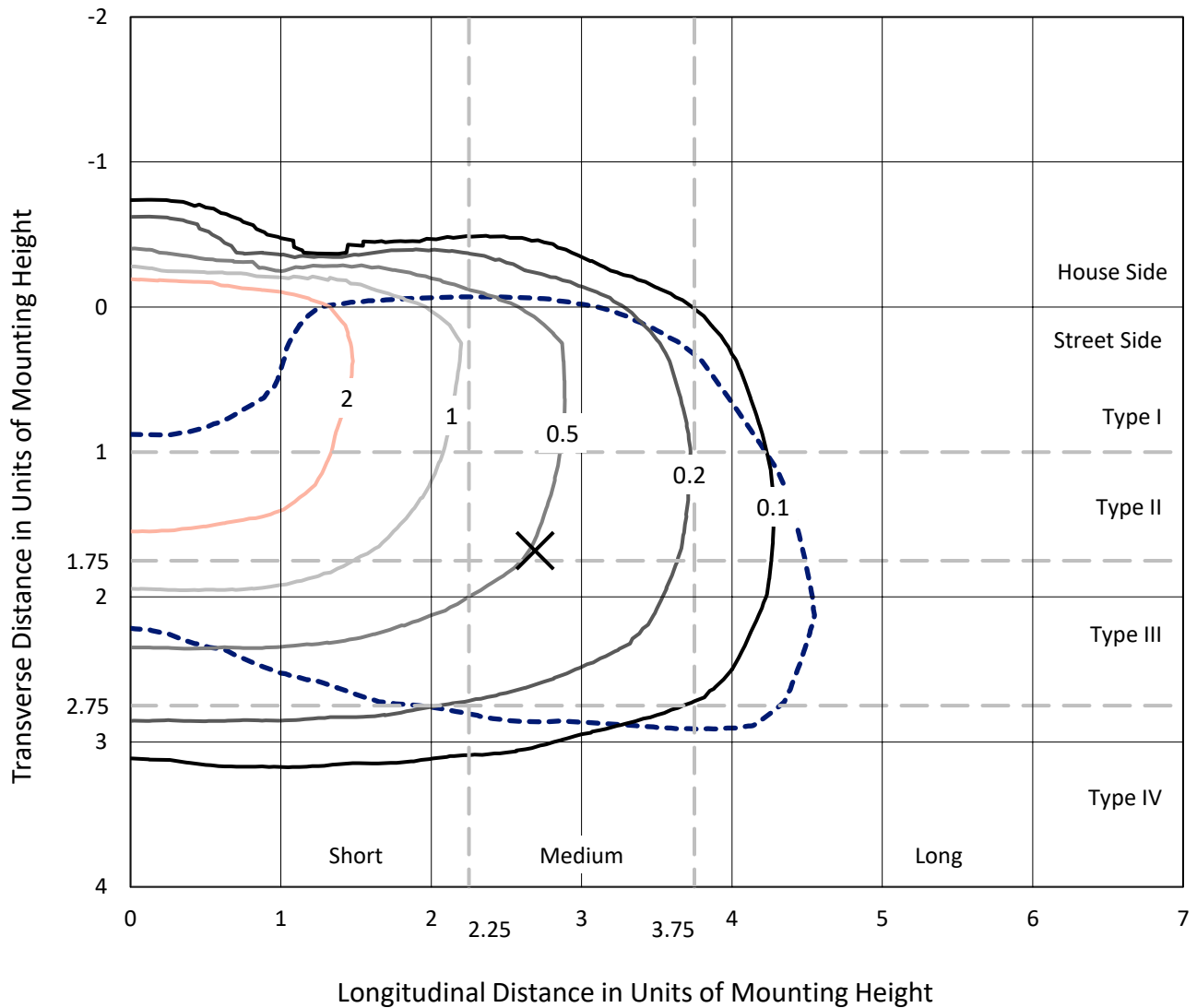
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399700
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Iso-Footcandle Lines of Horizontal Illumination

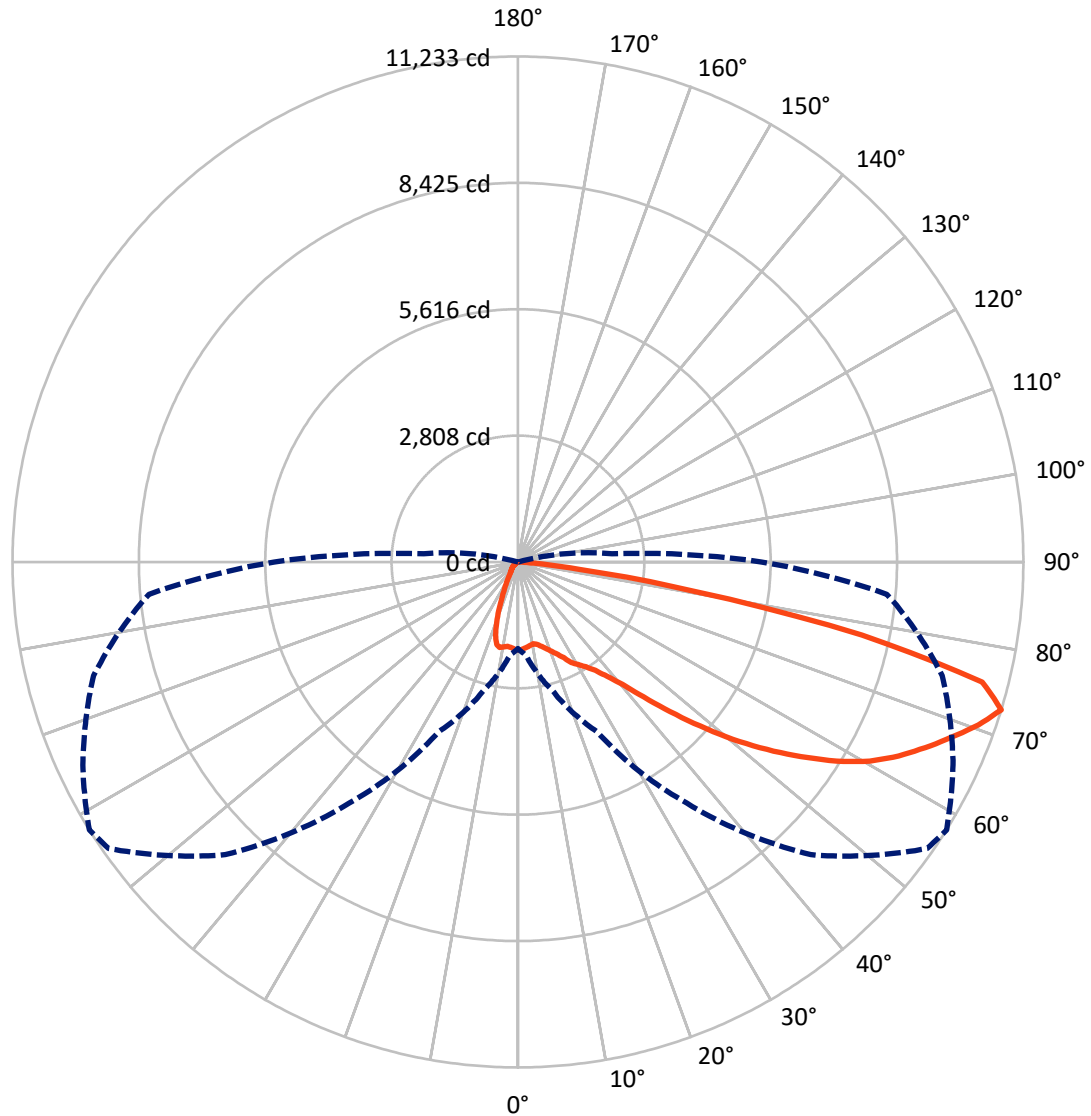
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399700
CATALOG NUMBER: ARCH-L-PA3-180-727-U-T3-HSS

Luminous Intensity Polar Plot



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

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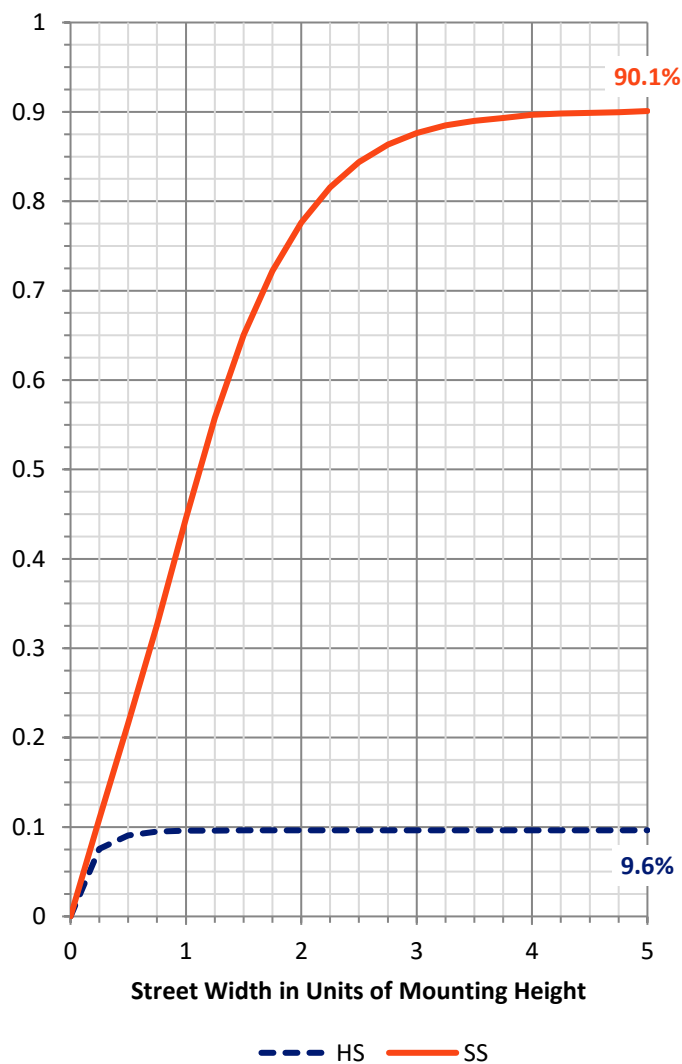
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1588.2	0.0	1588.2
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	14743.8	0.0	14743.8
	% Fixture	90.3	0.0	90.3
Total	Lumens	16332.0	0.0	16332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	1.1
10°-20°	468.4	2.9
20°-30°	735.9	4.5
30°-40°	1269.1	7.8
40°-50°	2414.6	14.8
50°-60°	3823.9	23.4
60°-70°	4462.1	27.3
70°-80°	2794.6	17.1
80°-90°	183.4	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°	16332.0	100.0
0°-180°	16332.0	100.0

Coefficient of Utilization

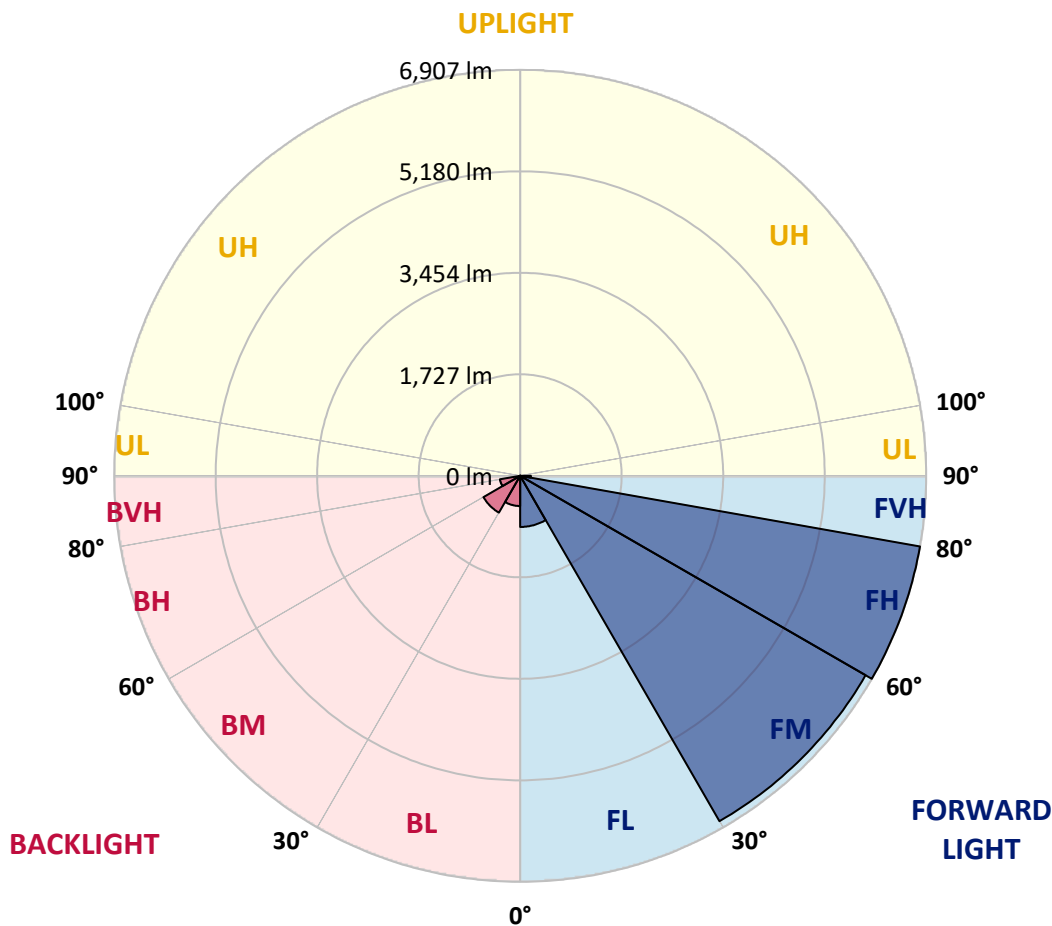


REPORT NUMBER: P399700
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	869.9	5.3			
FM (30°-60°)	6785.0	41.5			
FH (60°-80°)	6907.3	42.3			G3/7500
FVH (80°-90°)	181.7	1.1			G2/225
BL (0°-30°)	514.3	3.1	B2/1000		
BM (30°-60°)	722.6	4.4	B1/1000		
BH (60°-80°)	349.5	2.1	B1/500		G1/500
BVH (80°-90°)	1.8	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-G3
 Type IV Medium





REPORT NUMBER: P399700

CATALOG NUMBER: ARCH-L-PA3-180-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7
2.5°	1951.0	1942.2	1939.3	1936.4	1939.3	1942.2	1933.5	1942.2	1936.4	1939.3	1945.1
5°	1880.9	1872.1	1869.2	1872.1	1880.9	1895.5	1901.3	1910.1	1910.1	1918.9	1921.8
7.5°	1802.0	1796.2	1793.3	1799.1	1816.6	1848.8	1866.3	1878.0	1889.6	1907.2	1924.7
10°	1758.2	1755.3	1752.4	1761.1	1778.7	1807.9	1831.2	1848.8	1892.6	1942.2	1974.3
12.5°	1729.0	1729.0	1734.9	1752.4	1775.7	1799.1	1854.6	1878.0	1945.1	2021.1	2064.9
15°	1705.6	1705.6	1714.4	1746.5	1778.7	1834.2	1915.9	1942.2	2021.1	2114.5	2172.9
17.5°	1688.1	1694.0	1699.8	1731.9	1793.3	1886.7	1983.1	2021.1	2117.5	2219.7	2283.9
20°	1691.0	1696.9	1699.8	1731.9	1819.6	1948.1	2070.7	2114.5	2225.5	2333.6	2397.8
22.5°	1708.6	1717.3	1720.2	1764.1	1866.3	2012.3	2170.0	2219.7	2339.4	2453.3	2503.0
25°	1781.6	1787.4	1769.9	1807.9	1933.5	2111.6	2298.5	2351.1	2470.9	2576.0	2616.9
27.5°	2029.8	2035.7	1939.3	1895.5	1986.0	2193.4	2456.2	2529.3	2678.2	2748.3	2754.2
30°	2567.2	2573.1	2383.2	2175.9	2111.6	2263.5	2543.9	2646.1	2838.8	2917.7	2882.7
32.5°	3259.4	3253.6	2993.6	2687.0	2409.5	2386.2	2669.5	2777.5	2987.8	3063.7	3037.5
35°	3954.5	3963.3	3741.3	3279.9	2882.7	2616.9	2830.1	2955.7	3209.8	3317.8	3271.1
37.5°	4430.6	4489.0	4392.6	3893.2	3463.9	3043.3	3090.0	3224.4	3542.7	3688.8	3589.5
40°	5102.3	5087.7	4854.1	4486.1	4106.4	3674.1	3510.6	3574.8	3939.9	4135.6	3980.8
42.5°	6004.8	5975.6	5578.4	5219.2	4795.7	4442.3	4109.3	4097.6	4395.5	4623.4	4398.5
45°	6822.6	6778.8	6507.2	6159.6	5695.2	5289.3	4839.5	4737.3	4944.6	5137.4	4874.5
47.5°	7473.9	7400.9	7208.1	7024.1	6910.2	6279.3	5604.7	5449.9	5555.0	5698.1	5327.2
50°	8244.9	8043.4	7763.0	7652.0	7888.6	7400.9	6340.7	6191.7	6185.9	6267.7	5794.5
52.5°	8595.4	8230.3	8072.6	8166.1	8583.7	8443.5	7135.1	6921.9	6837.2	6845.9	6229.7
55°	8171.9	8131.0	8215.7	8507.8	9053.9	8972.2	7897.4	7634.5	7508.9	7351.2	6647.3
57.5°	7690.0	7815.6	8151.5	8709.3	9649.8	9524.2	8648.0	8350.1	8119.3	7757.2	7111.7
60°	7246.1	7374.6	7929.5	8756.0	9976.9	10055.7	9273.0	8989.7	8648.0	8171.9	7622.8
62.5°	6571.4	6670.7	7450.5	8688.9	9833.7	10365.3	9708.2	9495.0	9176.6	8566.2	8209.9
65°	5812.0	5876.3	6647.3	8151.5	9553.4	10330.3	10067.4	9947.7	9638.1	8978.0	8791.1
67.5°	4979.7	5055.6	5698.1	7184.7	9004.3	10166.7	10406.2	10394.5	10041.1	9433.6	9211.7
70°	4021.7	4027.5	4559.1	5958.1	8046.3	9839.6	10826.8	10853.0	10426.6	9775.3	9229.2
72.5°	1924.7	2082.4	2955.7	4159.0	6539.3	9197.1	11101.3	11232.7	10669.0	9763.7	8233.2
75°	441.0	455.6	861.6	1977.3	3834.8	7059.2	10415.0	10660.3	10079.1	8443.5	5800.4
77.5°	160.6	169.4	242.4	578.3	1474.9	3647.9	7453.4	7812.7	7450.5	5458.7	2742.5
80°	108.1	105.1	125.6	257.0	677.6	1033.9	3811.4	4024.6	3674.1	1863.4	657.1
82.5°	55.5	58.4	87.6	143.1	455.6	359.2	1273.4	1384.4	1139.0	373.8	122.7
85°	26.3	26.3	49.7	90.5	192.8	125.6	283.3	341.7	306.7	163.6	40.9
87.5°	26.3	26.3	46.7	58.4	99.3	52.6	70.1	87.6	81.8	87.6	14.6
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: P399700

CATALOG NUMBER: ARCH-L-PA3-180-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7
2.5°	1945.1	1942.2	1939.3	1945.1	1942.2	1948.1	1948.1	1953.9	1953.9	1948.1	1945.1
5°	1918.9	1913.0	1907.2	1907.2	1904.2	1910.1	1927.6	1942.2	1945.1	1936.4	1933.5
7.5°	1921.8	1921.8	1915.9	1904.2	1883.8	1883.8	1883.8	1901.3	1910.1	1904.2	1901.3
10°	1974.3	1977.3	1962.7	1936.4	1901.3	1869.2	1807.9	1717.3	1632.6	1609.3	1600.5
12.5°	2064.9	2067.8	2038.6	1991.9	1918.9	1729.0	1495.4	1279.2	1112.8	1066.0	1057.3
15°	2172.9	2175.9	2123.3	2047.4	1825.4	1384.4	1036.8	791.5	645.5	610.4	607.5
17.5°	2283.9	2278.1	2199.2	2053.2	1547.9	981.3	630.9	505.3	467.3	458.5	461.5
20°	2392.0	2374.5	2266.4	1945.1	1191.6	642.5	461.5	432.3	423.5	417.6	417.6
22.5°	2491.3	2456.2	2321.9	1731.9	835.3	461.5	411.8	406.0	394.3	385.5	382.6
25°	2590.6	2540.9	2356.9	1454.5	560.8	403.0	388.4	376.8	362.2	350.5	347.6
27.5°	2710.3	2640.2	2339.4	1104.0	420.6	373.8	362.2	344.6	324.2	306.7	300.8
30°	2824.2	2745.4	2240.1	762.3	359.2	344.6	327.1	300.8	274.5	254.1	248.3
32.5°	2967.4	2876.8	2062.0	499.4	312.5	300.8	283.3	251.2	216.1	192.8	186.9
35°	3171.8	3069.6	1834.2	350.5	274.5	254.1	230.7	195.7	157.7	140.2	137.3
37.5°	3458.0	3320.8	1547.9	283.3	242.4	213.2	178.2	143.1	116.8	102.2	99.3
40°	3808.5	3598.2	1229.6	251.2	216.1	178.2	134.3	102.2	84.7	73.0	73.0
42.5°	4188.2	3858.1	905.4	230.7	189.8	146.0	99.3	73.0	61.3	55.5	52.6
45°	4579.5	4088.9	610.4	213.2	166.5	111.0	70.1	49.7	40.9	40.9	38.0
47.5°	4985.5	4243.7	394.3	192.8	140.2	81.8	46.7	35.0	29.2	29.2	29.2
50°	5388.6	4325.4	280.4	175.2	113.9	55.5	35.0	26.3	23.4	23.4	23.4
52.5°	5680.6	4272.9	224.9	151.9	87.6	40.9	26.3	20.4	17.5	17.5	17.5
55°	5934.7	4182.3	195.7	131.4	64.3	29.2	20.4	17.5	14.6	14.6	14.6
57.5°	6194.6	4065.5	175.2	111.0	46.7	20.4	14.6	11.7	11.7	11.7	11.7
60°	6431.2	3866.9	151.9	87.6	32.1	14.6	11.7	8.8	8.8	8.8	8.8
62.5°	6661.9	3697.5	131.4	67.2	23.4	11.7	5.8	5.8	2.9	2.9	2.9
65°	6793.4	3469.7	105.1	43.8	14.6	8.8	2.9	2.9	0.0	0.0	0.0
67.5°	6752.5	3198.1	73.0	26.3	8.8	5.8	2.9	0.0	0.0	0.0	0.0
70°	6469.2	2833.0	43.8	14.6	8.8	5.8	2.9	0.0	0.0	0.0	0.0
72.5°	5417.8	2097.0	26.3	11.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0
75°	3618.7	963.8	14.6	8.8	2.9	2.9	0.0	0.0	0.0	0.0	0.0
77.5°	1656.0	289.1	8.8	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	333.0	75.9	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	70.1	14.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	2.9	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)