

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: P399412

Luminaire Tested: **ARCH-L-PA3-140-727-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399412
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-PA3-140-727-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 620mA 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: 13725 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

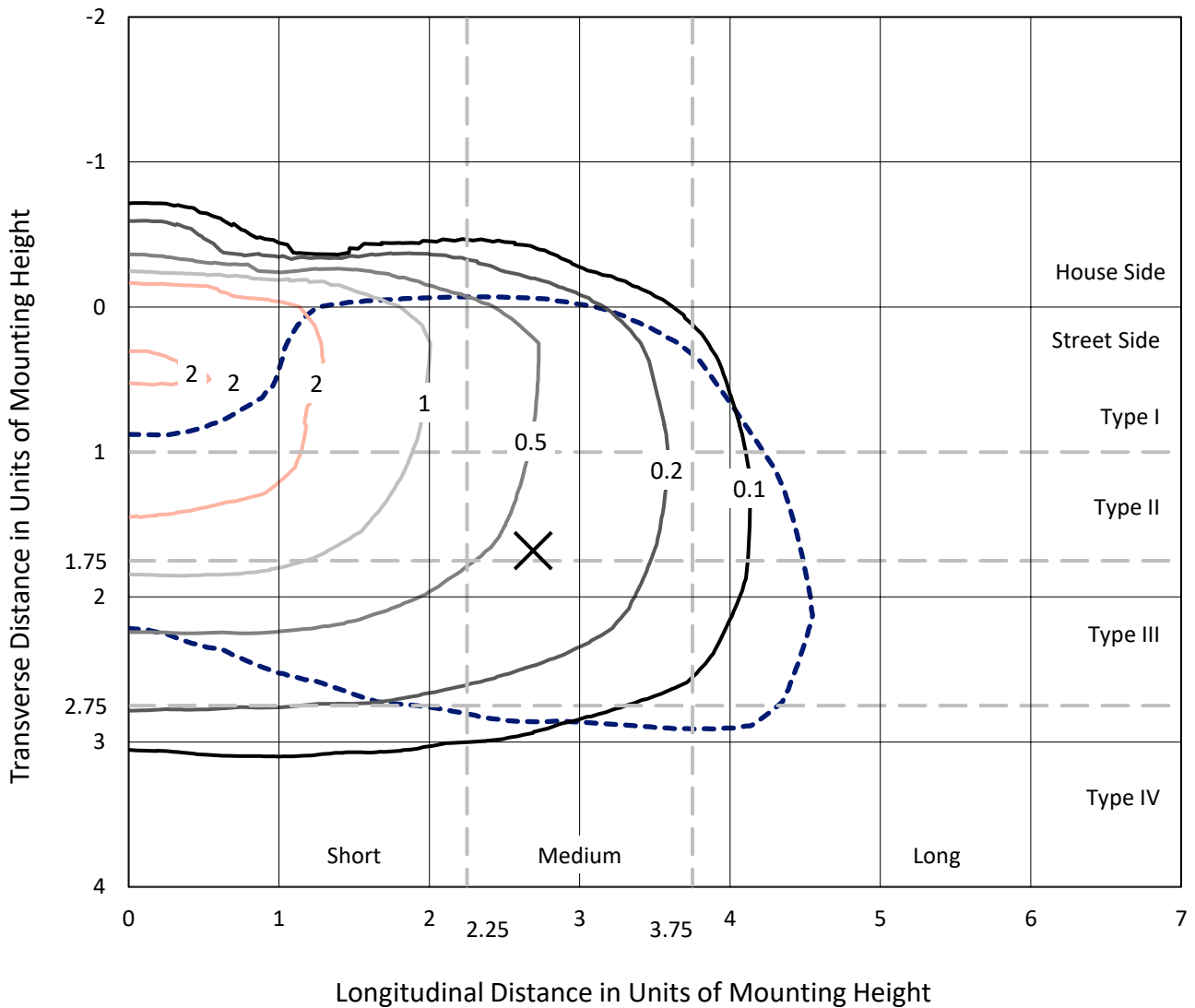
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

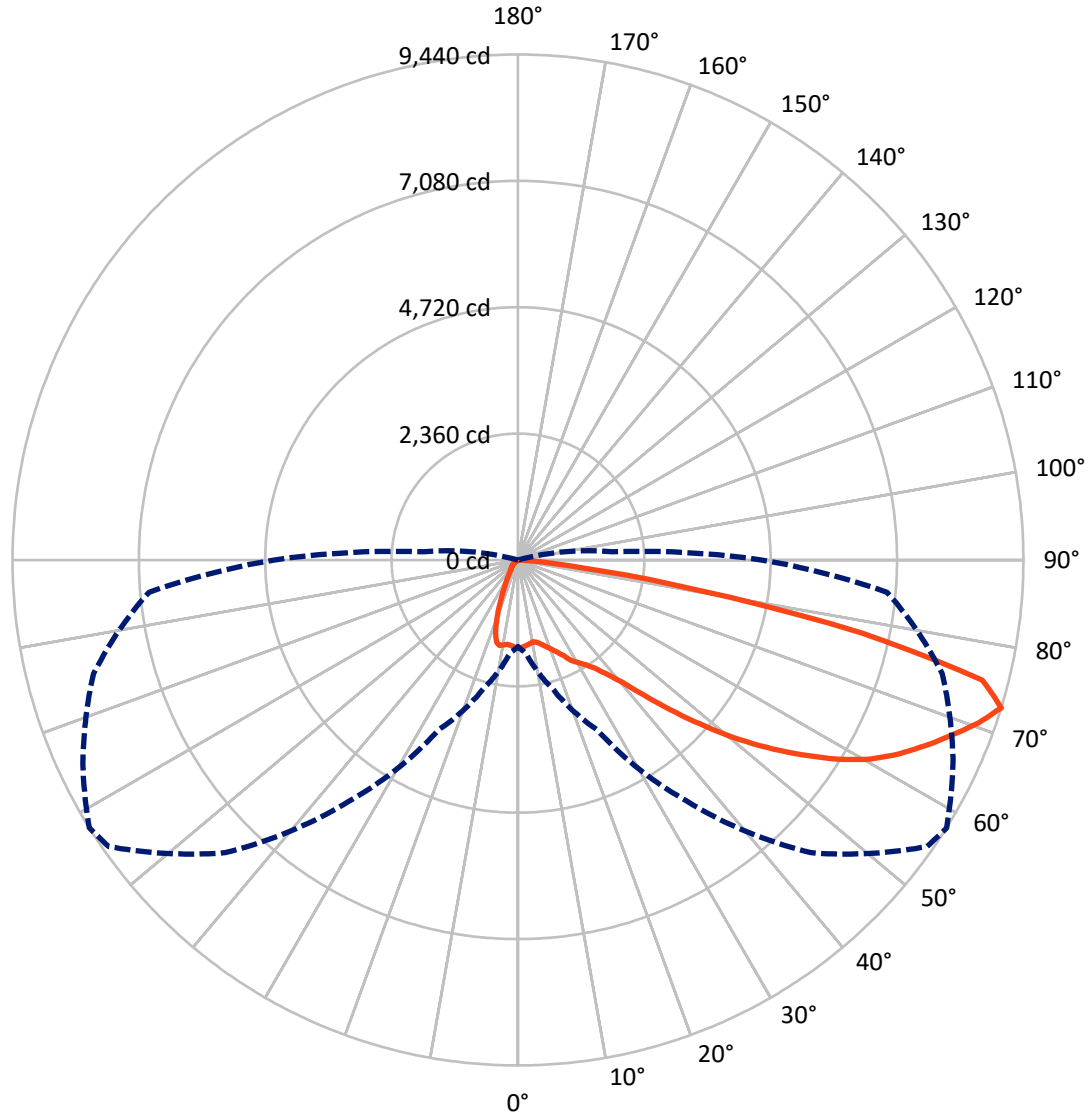
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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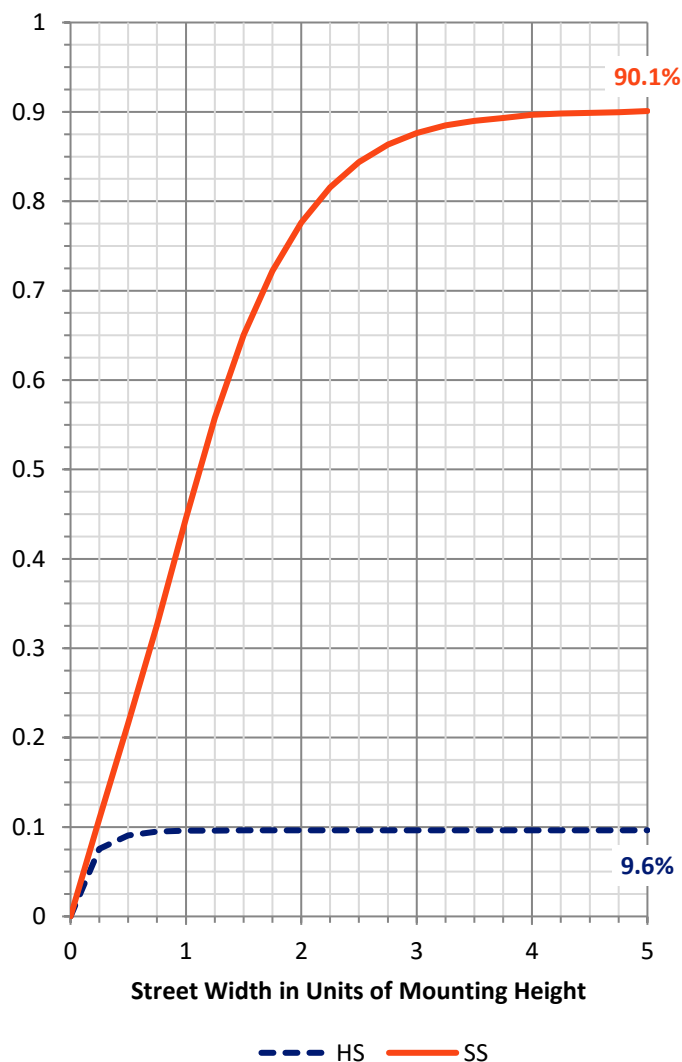
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1334.7	0.0	1334.7
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	12390.3	0.0	12390.3
	% Fixture	90.3	0.0	90.3
Total	Lumens	13725.0	0.0	13725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	1.1
10°-20°	393.7	2.9
20°-30°	618.4	4.5
30°-40°	1066.5	7.8
40°-50°	2029.2	14.8
50°-60°	3213.5	23.4
60°-70°	3749.8	27.3
70°-80°	2348.5	17.1
80°-90°	154.2	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°	13725.0	100.0
0°-180°	13725.0	100.0

Coefficient of Utilization



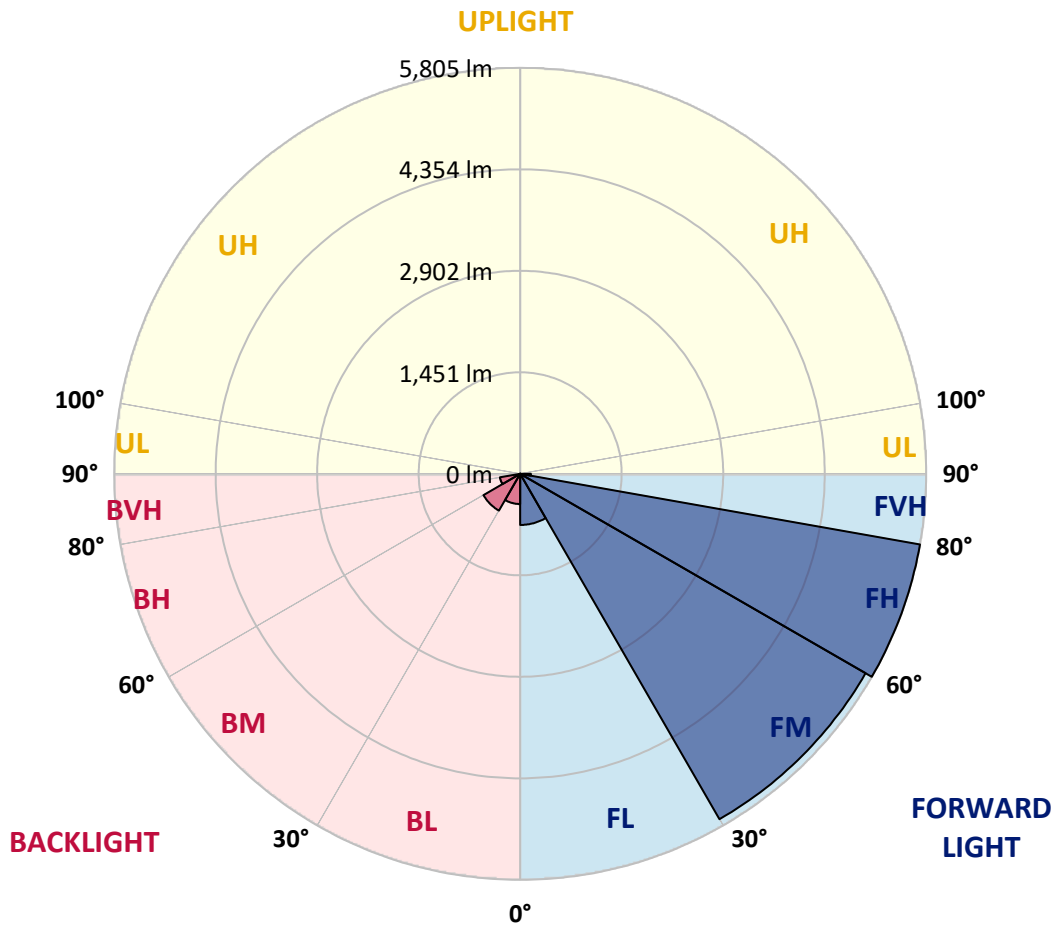
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	731.0	5.3			
FM (30°-60°)	5701.9	41.5			
FH (60°-80°)	5804.7	42.3			G3/7500
FVH (80°-90°)	152.7	1.1			G2/225
BL (0°-30°)	432.2	3.1	B1/500		
BM (30°-60°)	607.3	4.4	B1/1000		
BH (60°-80°)	293.7	2.1	B1/500		G1/500
BVH (80°-90°)	1.5	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1646.9	1646.9	1646.9	1646.9	1646.9	1646.9	1646.9	1646.9	1646.9	1646.9	1646.9
2.5°	1639.6	1632.2	1629.7	1627.3	1629.7	1632.2	1624.8	1632.2	1627.3	1629.7	1634.6
5°	1580.6	1573.3	1570.8	1573.3	1580.6	1592.9	1597.8	1605.2	1605.2	1612.6	1615.0
7.5°	1514.4	1509.5	1507.0	1511.9	1526.6	1553.6	1568.4	1578.2	1588.0	1602.7	1617.5
10°	1477.6	1475.1	1472.7	1480.0	1494.7	1519.3	1538.9	1553.6	1590.5	1632.2	1659.2
12.5°	1453.0	1453.0	1457.9	1472.7	1492.3	1511.9	1558.6	1578.2	1634.6	1698.5	1735.3
15°	1433.4	1433.4	1440.7	1467.7	1494.7	1541.4	1610.1	1632.2	1698.5	1777.0	1826.1
17.5°	1418.7	1423.6	1428.5	1455.5	1507.0	1585.6	1666.6	1698.5	1779.5	1865.4	1919.4
20°	1421.1	1426.0	1428.5	1455.5	1529.1	1637.1	1740.2	1777.0	1870.3	1961.1	2015.1
22.5°	1435.8	1443.2	1445.7	1482.5	1568.4	1691.1	1823.6	1865.4	1966.0	2061.7	2103.4
25°	1497.2	1502.1	1487.4	1519.3	1624.8	1774.5	1931.6	1975.8	2076.4	2164.8	2199.2
27.5°	1705.8	1710.7	1629.7	1592.9	1669.0	1843.3	2064.2	2125.5	2250.7	2309.6	2314.5
30°	2157.4	2162.3	2002.8	1828.5	1774.5	1902.2	2137.8	2223.7	2385.7	2452.0	2422.5
32.5°	2739.1	2734.2	2515.8	2258.1	2024.9	2005.3	2243.3	2334.2	2510.9	2574.7	2552.6
35°	3323.3	3330.6	3144.1	2756.3	2422.5	2199.2	2378.3	2483.9	2697.4	2788.2	2749.0
37.5°	3723.4	3772.4	3691.4	3271.7	2910.9	2557.5	2596.8	2709.7	2977.2	3099.9	3016.5
40°	4287.9	4275.6	4079.2	3770.0	3450.9	3087.7	2950.2	3004.2	3311.0	3475.5	3345.4
42.5°	5046.3	5021.7	4687.9	4386.0	4030.2	3733.2	3453.4	3443.6	3693.9	3885.3	3696.4
45°	5733.5	5696.7	5468.4	5176.4	4786.1	4445.0	4067.0	3981.1	4155.3	4317.3	4096.4
47.5°	6280.9	6219.5	6057.5	5902.9	5807.2	5277.0	4710.0	4579.9	4668.3	4788.6	4476.9
50°	6928.8	6759.5	6523.9	6430.6	6629.4	6219.5	5328.5	5203.4	5198.5	5267.2	4869.6
52.5°	7223.4	6916.6	6784.0	6862.6	7213.5	7095.7	5996.1	5817.0	5745.8	5753.2	5235.3
55°	6867.5	6833.1	6904.3	7149.7	7608.7	7540.0	6636.8	6415.9	6310.3	6177.8	5586.3
57.5°	6462.5	6568.0	6850.3	7319.1	8109.4	8003.9	7267.5	7017.2	6823.3	6518.9	5976.5
60°	6089.4	6197.4	6663.8	7358.4	8384.3	8450.6	7792.8	7554.7	7267.5	6867.5	6406.0
62.5°	5522.4	5605.9	6261.2	7301.9	8264.0	8710.7	8158.5	7979.3	7711.8	7198.8	6899.4
65°	4884.3	4938.3	5586.3	6850.3	8028.4	8681.3	8460.4	8359.8	8099.6	7544.9	7387.8
67.5°	4184.8	4248.6	4788.6	6037.9	7567.0	8543.8	8745.1	8735.3	8438.3	7927.8	7741.2
70°	3379.7	3384.6	3831.4	5007.0	6761.9	8268.9	9098.5	9120.6	8762.3	8214.9	7756.0
72.5°	1617.5	1750.0	2483.9	3495.1	5495.4	7729.0	9329.3	9439.7	8966.0	8205.1	6919.0
75°	370.6	382.9	724.1	1661.6	3222.7	5932.3	8752.5	8958.6	8470.2	7095.7	4874.5
77.5°	135.0	142.4	203.7	486.0	1239.5	3065.6	6263.7	6565.6	6261.2	4587.3	2304.7
80°	90.8	88.4	105.5	216.0	569.4	868.9	3203.0	3382.2	3087.7	1565.9	552.2
82.5°	46.6	49.1	73.6	120.3	382.9	301.9	1070.1	1163.4	957.2	314.2	103.1
85°	22.1	22.1	41.7	76.1	162.0	105.5	238.1	287.2	257.7	137.4	34.4
87.5°	22.1	22.1	39.3	49.1	83.5	44.2	58.9	73.6	68.7	73.6	12.3
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°	1646.9	1646.9	1646.9	1646.9	1646.9	1646.9	1646.9	1646.9	1646.9	1646.9	1646.9
2.5°	1634.6	1632.2	1629.7	1634.6	1632.2	1637.1	1637.1	1642.0	1642.0	1637.1	1634.6
5°	1612.6	1607.6	1602.7	1602.7	1600.3	1605.2	1619.9	1632.2	1634.6	1627.3	1624.8
7.5°	1615.0	1615.0	1610.1	1600.3	1583.1	1583.1	1583.1	1597.8	1605.2	1600.3	1597.8
10°	1659.2	1661.6	1649.4	1627.3	1597.8	1570.8	1519.3	1443.2	1372.0	1352.4	1345.0
12.5°	1735.3	1737.7	1713.2	1673.9	1612.6	1453.0	1256.7	1075.0	935.1	895.9	888.5
15°	1826.1	1828.5	1784.4	1720.5	1534.0	1163.4	871.3	665.1	542.4	513.0	510.5
17.5°	1919.4	1914.4	1848.2	1725.5	1300.8	824.7	530.2	424.6	392.7	385.3	387.8
20°	2010.2	1995.4	1904.6	1634.6	1001.4	540.0	387.8	363.3	355.9	351.0	351.0
22.5°	2093.6	2064.2	1951.3	1455.5	702.0	387.8	346.1	341.2	331.3	324.0	321.5
25°	2177.1	2135.3	1980.7	1222.3	471.2	338.7	326.4	316.6	304.3	294.5	292.1
27.5°	2277.7	2218.8	1966.0	927.8	353.4	314.2	304.3	289.6	272.4	257.7	252.8
30°	2373.4	2307.2	1882.5	640.6	301.9	289.6	274.9	252.8	230.7	213.5	208.6
32.5°	2493.7	2417.6	1732.8	419.7	262.6	252.8	238.1	211.1	181.6	162.0	157.1
35°	2665.5	2579.6	1541.4	294.5	230.7	213.5	193.9	164.4	132.5	117.8	115.4
37.5°	2906.0	2790.7	1300.8	238.1	203.7	179.2	149.7	120.3	98.2	85.9	83.5
40°	3200.6	3023.8	1033.3	211.1	181.6	149.7	112.9	85.9	71.2	61.4	61.4
42.5°	3519.6	3242.3	760.9	193.9	159.5	122.7	83.5	61.4	51.5	46.6	44.2
45°	3848.5	3436.2	513.0	179.2	139.9	93.3	58.9	41.7	34.4	34.4	31.9
47.5°	4189.7	3566.3	331.3	162.0	117.8	68.7	39.3	29.5	24.5	24.5	24.5
50°	4528.4	3635.0	235.6	147.3	95.7	46.6	29.5	22.1	19.6	19.6	19.6
52.5°	4773.8	3590.8	189.0	127.6	73.6	34.4	22.1	17.2	14.7	14.7	14.7
55°	4987.4	3514.7	164.4	110.4	54.0	24.5	17.2	14.7	12.3	12.3	12.3
57.5°	5205.8	3416.6	147.3	93.3	39.3	17.2	12.3	9.8	9.8	9.8	9.8
60°	5404.6	3249.7	127.6	73.6	27.0	12.3	9.8	7.4	7.4	7.4	7.4
62.5°	5598.5	3107.3	110.4	56.5	19.6	9.8	4.9	4.9	2.5	2.5	2.5
65°	5709.0	2915.9	88.4	36.8	12.3	7.4	2.5	2.5	0.0	0.0	0.0
67.5°	5674.6	2687.6	61.4	22.1	7.4	4.9	2.5	0.0	0.0	0.0	0.0
70°	5436.5	2380.8	36.8	12.3	7.4	4.9	2.5	0.0	0.0	0.0	0.0
72.5°	4553.0	1762.3	22.1	9.8	4.9	2.5	0.0	0.0	0.0	0.0	0.0
75°	3041.0	810.0	12.3	7.4	2.5	2.5	0.0	0.0	0.0	0.0	0.0
77.5°	1391.7	243.0	7.4	4.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	279.8	63.8	4.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	58.9	12.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.3	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	2.5	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)