

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: P399279

Luminaire Tested: **ARCH-L-PA3-120-730-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-120-730-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12940 lumens
Efficiency: N/A
Efficacy: 105.2 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

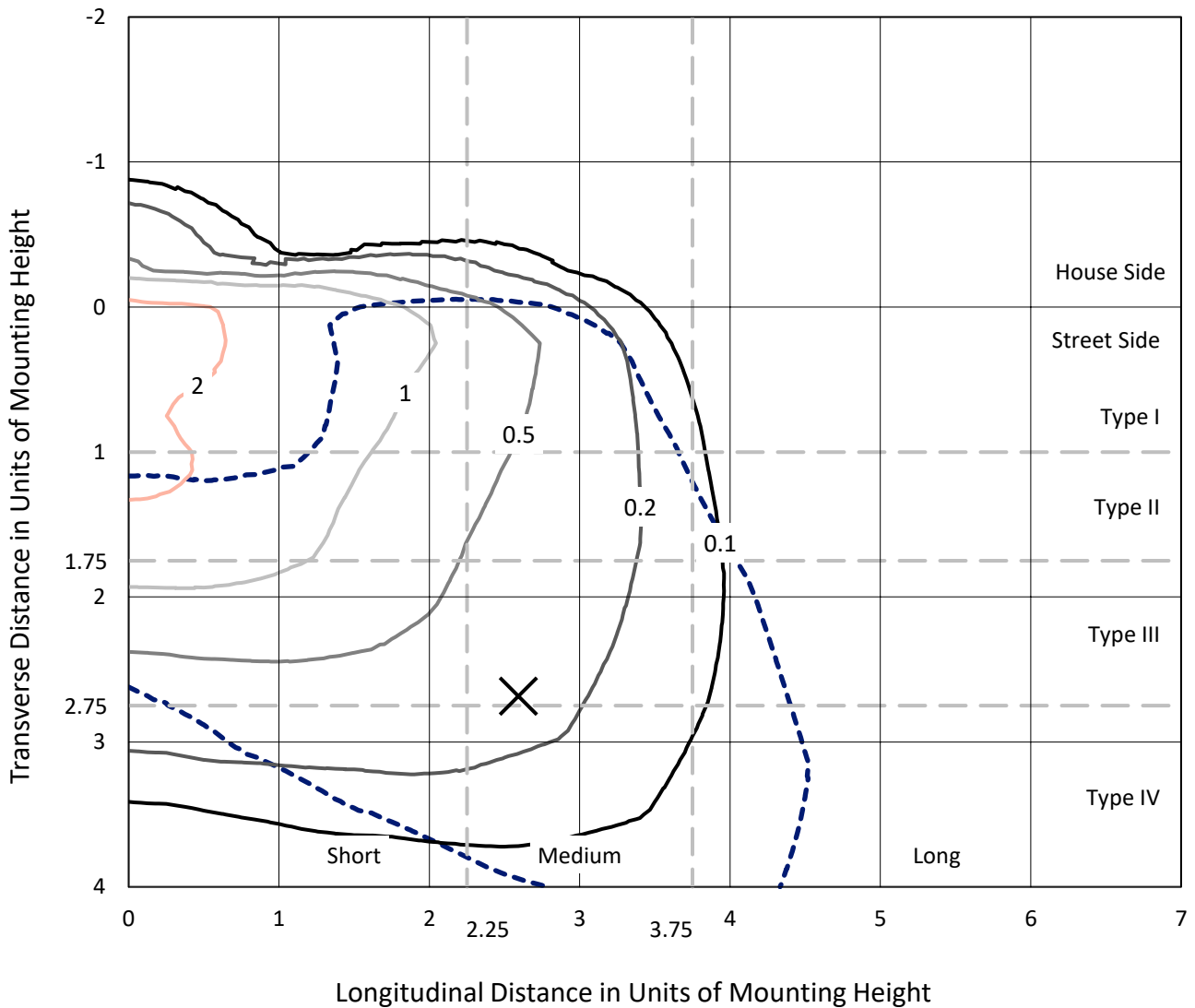
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

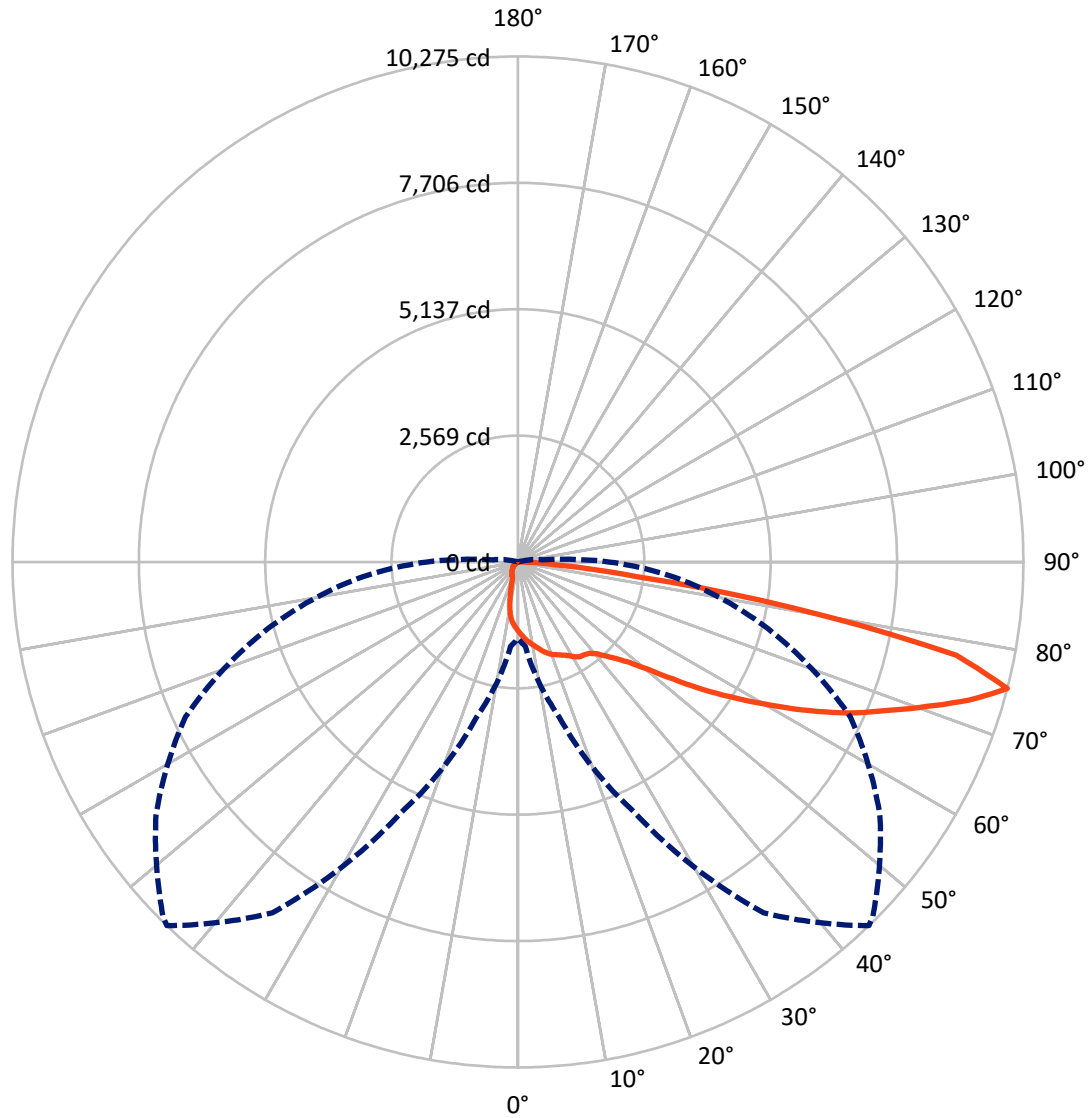
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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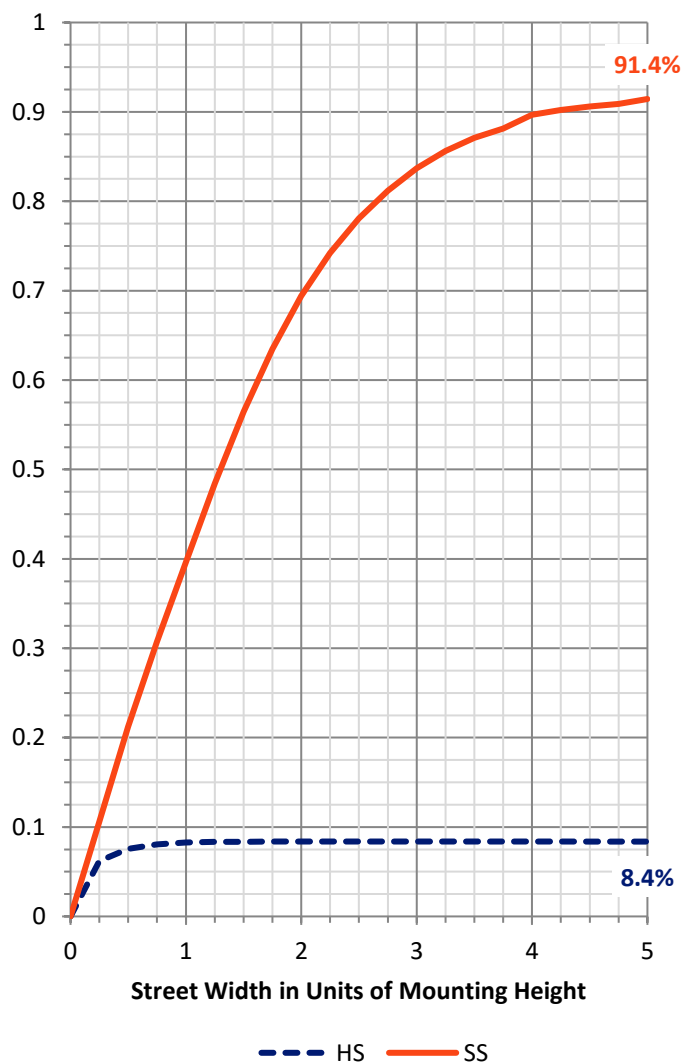
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1091.3	0.0	1091.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	11848.7	0.0	11848.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	12940.0	0.0	12940.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	1.0
10°-20°	372.2	2.9
20°-30°	614.2	4.7
30°-40°	891.5	6.9
40°-50°	1449.2	11.2
50°-60°	2554.8	19.7
60°-70°	3671.7	28.4
70°-80°	2940.2	22.7
80°-90°	313.3	2.4
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°	12940.0	100.0
0°-180°	12940.0	100.0

Coefficient of Utilization



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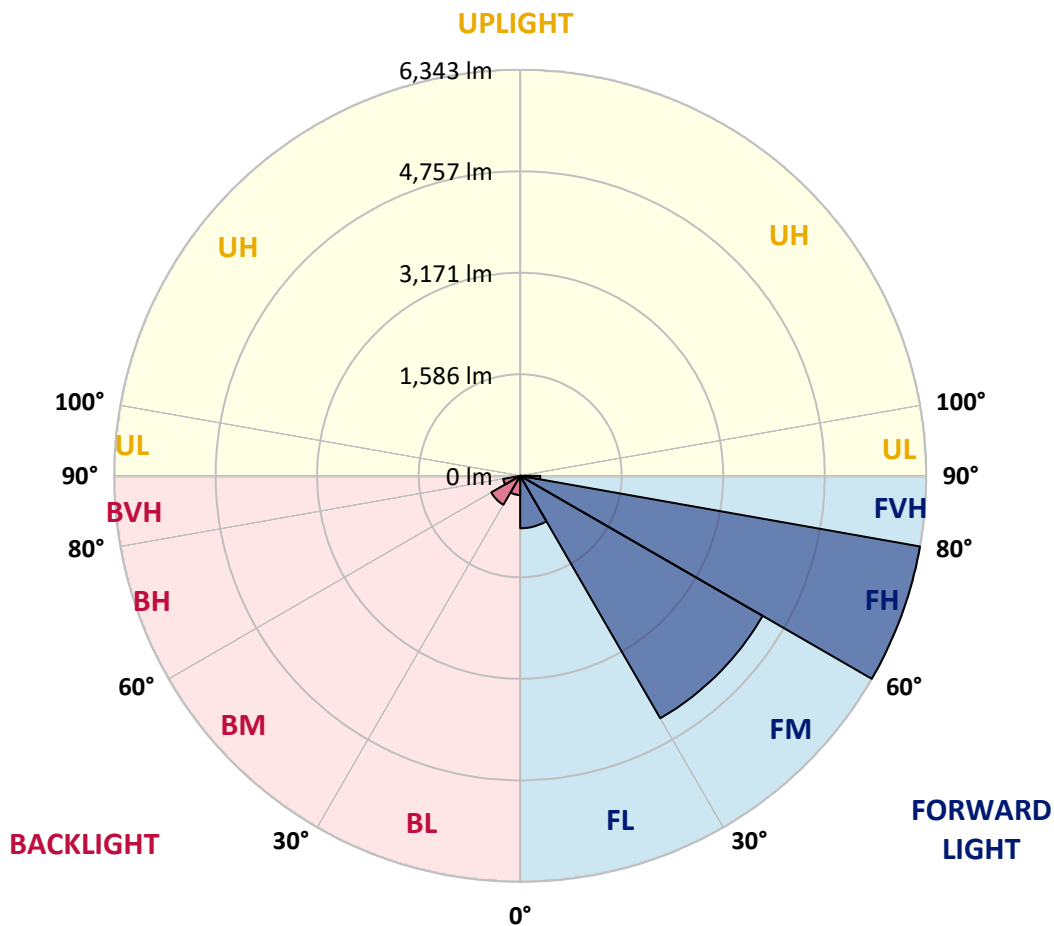
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.5	6.3			
FM (30°-60°)	4373.8	33.8			
FH (60°-80°)	6343.0	49.0			G3/7500
FVH (80°-90°)	312.5	2.4			G3/500
BL (0°-30°)	299.8	2.3	B1/500		
BM (30°-60°)	521.6	4.0	B1/1000		
BH (60°-80°)	269.0	2.1	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1408.5	1408.5	1408.5	1408.5	1408.5	1408.5	1408.5	1408.5	1408.5	1408.5	1408.5
2.5°	1535.0	1532.6	1525.4	1513.5	1501.6	1489.6	1487.2	1468.2	1446.7	1430.0	1415.6
5°	1671.1	1668.7	1656.7	1630.5	1604.2	1573.2	1570.8	1525.4	1484.9	1439.5	1401.3
7.5°	1811.9	1807.1	1785.7	1745.1	1699.7	1652.0	1647.2	1580.4	1520.7	1461.0	1406.1
10°	1921.7	1917.0	1885.9	1838.2	1776.1	1716.4	1709.3	1640.0	1580.4	1504.0	1430.0
12.5°	2029.2	2019.6	1979.0	1926.5	1850.1	1792.8	1785.7	1714.0	1642.4	1563.6	1472.9
15°	2129.4	2117.5	2079.3	2012.4	1931.3	1876.4	1871.6	1795.2	1721.2	1630.5	1530.2
17.5°	2198.6	2193.9	2148.5	2074.5	1995.7	1950.4	1945.6	1866.8	1792.8	1697.3	1589.9
20°	2234.5	2234.5	2191.5	2110.3	2038.7	2007.7	2000.5	1926.5	1854.9	1764.2	1652.0
22.5°	2241.6	2248.8	2215.4	2127.0	2074.5	2048.2	2043.5	1979.0	1909.8	1826.2	1721.2
25°	2255.9	2255.9	2239.2	2143.7	2105.5	2098.4	2096.0	2038.7	1976.6	1893.1	1790.4
27.5°	2272.6	2272.6	2260.7	2167.6	2153.3	2150.9	2148.5	2122.3	2072.1	1974.2	1871.6
30°	2315.6	2318.0	2308.5	2215.4	2205.8	2232.1	2236.8	2222.5	2160.4	2038.7	1955.1
32.5°	2423.0	2401.6	2375.3	2248.8	2265.5	2298.9	2301.3	2272.6	2205.8	2107.9	2055.4
35°	2692.8	2566.3	2446.9	2277.4	2284.6	2318.0	2322.8	2320.4	2279.8	2196.3	2170.0
37.5°	2943.5	2764.4	2594.9	2344.3	2320.4	2356.2	2365.8	2406.3	2375.3	2318.0	2325.2
40°	3089.1	3019.9	2900.5	2528.1	2392.0	2446.9	2456.5	2518.5	2506.6	2482.7	2528.1
42.5°	3537.9	3542.7	3413.7	2802.6	2523.3	2611.6	2623.6	2673.7	2690.4	2702.4	2812.2
45°	4058.3	4075.0	4044.0	3296.8	2771.6	2800.2	2816.9	2883.8	2945.9	3022.2	3222.8
47.5°	4683.8	4669.4	4554.8	3900.7	3203.7	3043.7	3055.7	3184.6	3292.0	3459.1	3745.6
50°	5237.6	5273.4	5056.2	4464.1	3812.4	3428.1	3416.1	3542.7	3736.0	3970.0	4330.4
52.5°	5796.2	5743.7	5450.1	5022.7	4533.4	3950.9	3915.1	3984.3	4256.4	4533.4	4903.4
55°	5944.2	5949.0	5848.7	5633.9	5134.9	4585.9	4526.2	4521.4	4860.4	5049.0	5505.0
57.5°	6235.5	6247.4	6271.3	6314.2	6077.9	5220.9	5158.8	5092.0	5421.4	5531.2	6108.9
60°	6531.5	6545.8	6691.4	6923.0	6765.4	5906.0	5839.2	5681.6	5865.4	6013.5	6743.9
62.5°	6493.3	6593.5	7016.1	7476.8	7457.7	6658.0	6574.5	6194.9	6311.9	6440.8	7326.4
65°	5863.1	5970.5	6920.6	7629.6	8152.4	7400.4	7264.4	6724.8	6732.0	6887.2	7887.4
67.5°	5299.7	5416.6	6323.8	7565.2	8610.8	8066.5	7925.6	7257.2	7145.0	7402.8	8188.2
70°	4975.0	5092.0	5848.7	7364.6	8739.7	8804.1	8682.4	7865.9	7636.8	7873.1	7851.6
72.5°	3893.6	4077.4	5242.4	6982.7	8878.1	9594.3	9498.8	8637.0	8054.5	7381.3	5977.6
75°	1551.7	1721.2	3272.9	5619.6	8703.9	10274.7	10200.7	8983.2	7455.3	5271.0	3060.4
77.5°	467.9	501.3	909.5	2778.7	6381.1	9109.7	9085.8	7553.2	5275.8	2446.9	835.5
80°	155.2	171.9	279.3	766.3	2912.4	5691.2	5798.6	4812.7	2396.8	561.0	169.5
82.5°	64.5	71.6	140.8	308.0	1031.3	2451.7	2415.9	2155.7	835.5	348.5	62.1
85°	16.7	21.5	64.5	176.7	377.2	845.1	888.1	723.3	472.7	288.9	19.1
87.5°	0.0	0.0	31.0	71.6	169.5	255.4	267.4	219.6	267.4	217.2	9.5
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°	1408.5	1408.5	1408.5	1408.5	1408.5	1408.5	1408.5	1408.5	1408.5	1408.5	1408.5
2.5°	1403.7	1391.8	1370.3	1356.0	1336.9	1332.1	1322.5	1310.6	1308.2	1296.3	1298.7
5°	1379.8	1360.7	1322.5	1296.3	1265.2	1255.7	1239.0	1227.0	1217.5	1200.8	1203.2
7.5°	1375.0	1346.4	1293.9	1243.8	1193.6	1157.8	1107.7	1067.1	1033.7	997.9	1005.0
10°	1391.8	1356.0	1281.9	1212.7	1122.0	1007.4	876.1	790.2	747.2	704.2	709.0
12.5°	1425.2	1382.2	1286.7	1181.7	997.9	802.1	620.7	503.7	472.7	453.6	456.0
15°	1475.3	1422.8	1301.0	1122.0	830.8	580.1	413.0	362.9	374.8	382.0	382.0
17.5°	1527.8	1468.2	1313.0	1014.6	642.2	405.8	336.6	331.8	348.5	365.2	365.2
20°	1592.3	1515.9	1315.4	878.5	463.1	329.4	317.5	317.5	329.4	348.5	348.5
22.5°	1654.4	1568.4	1293.9	723.3	353.3	305.6	305.6	305.6	312.7	331.8	334.2
25°	1728.4	1632.9	1248.5	558.6	303.2	291.2	291.2	293.6	298.4	315.1	317.5
27.5°	1807.1	1699.7	1172.1	408.2	276.9	274.5	276.9	279.3	281.7	298.4	303.2
30°	1897.9	1773.7	1074.3	305.6	253.0	253.0	260.2	265.0	265.0	279.3	284.1
32.5°	2002.9	1871.6	957.3	253.0	229.2	226.8	238.7	245.9	245.9	257.8	262.6
35°	2134.2	1971.9	816.4	224.4	210.1	205.3	210.1	222.0	226.8	236.3	238.7
37.5°	2308.5	2091.2	666.0	207.7	195.8	186.2	186.2	188.6	198.1	207.7	210.1
40°	2530.5	2222.5	518.0	195.8	181.4	171.9	164.7	162.3	159.9	167.1	171.9
42.5°	2809.8	2370.5	386.7	183.8	169.5	155.2	145.6	136.1	124.1	121.7	124.1
45°	3167.9	2552.0	286.5	174.3	162.3	140.8	124.1	107.4	85.9	78.8	81.2
47.5°	3590.4	2740.5	224.4	164.7	157.6	124.1	102.7	74.0	52.5	47.7	50.1
50°	4039.2	2922.0	191.0	152.8	148.0	107.4	74.0	45.4	31.0	31.0	33.4
52.5°	4421.2	3024.6	174.3	143.2	133.7	88.3	47.7	26.3	19.1	19.1	21.5
55°	4791.2	3079.5	162.3	133.7	114.6	62.1	26.3	16.7	11.9	11.9	11.9
57.5°	5173.1	3103.4	148.0	121.7	90.7	38.2	14.3	9.5	7.2	7.2	7.2
60°	5512.1	3058.1	126.5	100.3	59.7	19.1	7.2	7.2	4.8	2.4	2.4
62.5°	5796.2	2972.1	88.3	71.6	35.8	9.5	4.8	2.4	0.0	0.0	0.0
65°	5970.5	2833.7	57.3	47.7	21.5	7.2	2.4	0.0	0.0	0.0	0.0
67.5°	5920.3	2573.4	35.8	31.0	9.5	4.8	2.4	0.0	0.0	0.0	0.0
70°	5342.6	2110.3	26.3	19.1	7.2	2.4	0.0	0.0	0.0	0.0	0.0
72.5°	3850.6	1427.6	19.1	11.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	1852.5	508.5	11.9	9.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	453.6	112.2	7.2	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	100.3	21.5	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.4	9.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.9	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	2.4	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)