

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: P399394

Luminaire Tested: **ARCH-L-PA3-130-830-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399394
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-PA3-130-830-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 575mA 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: 12258 lumens
Efficiency: N/A
Efficacy: 92.2 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

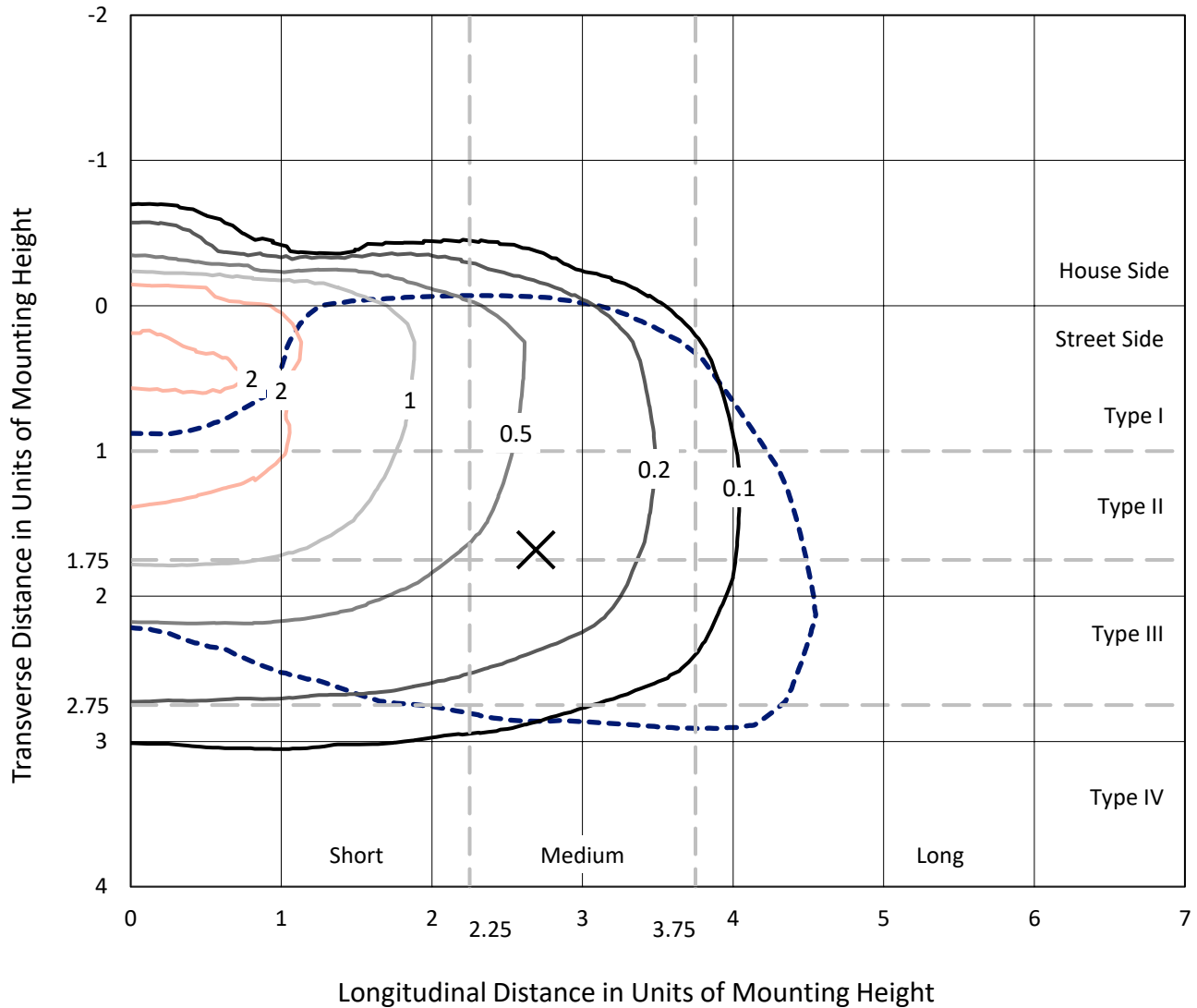
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

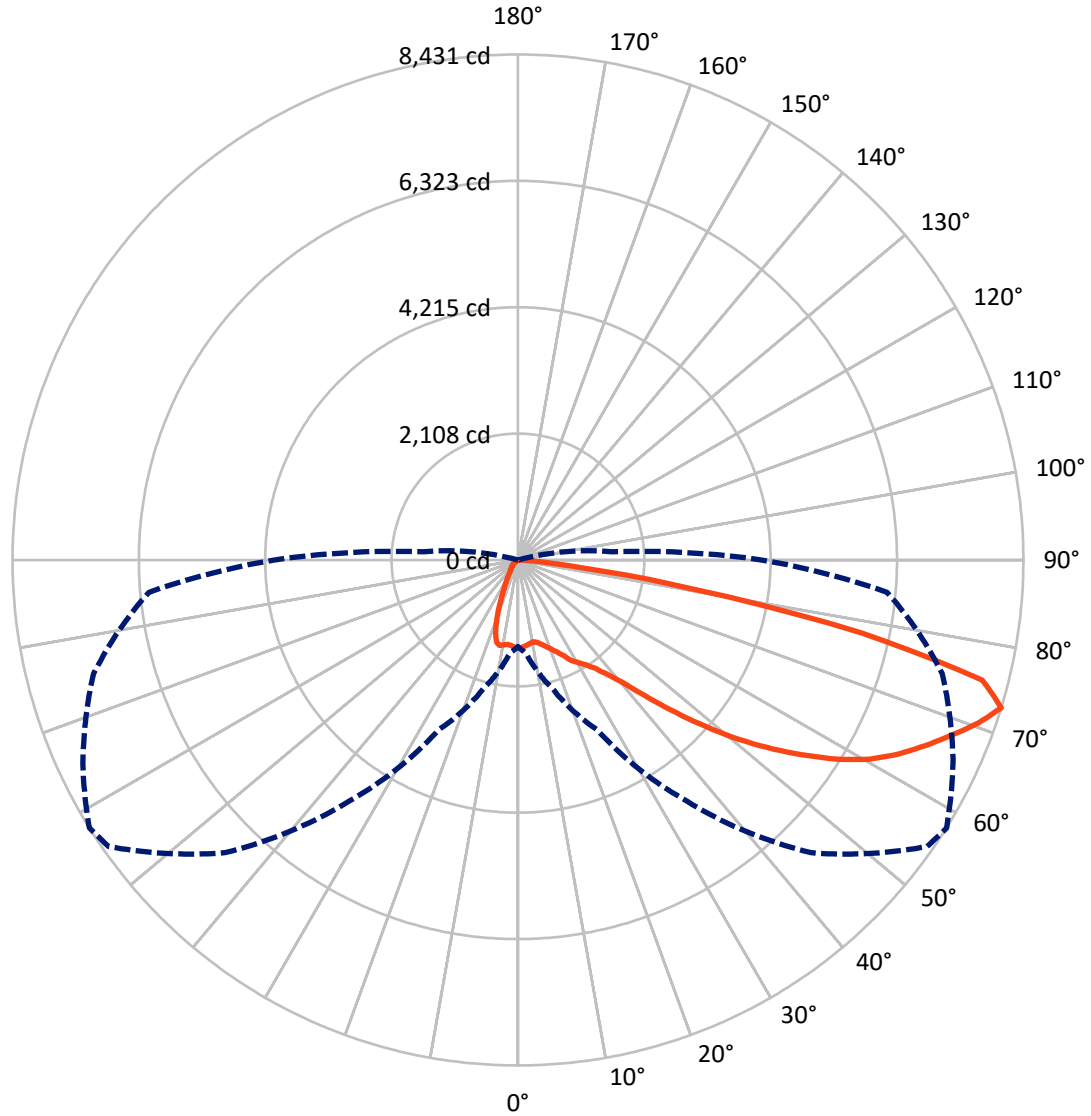
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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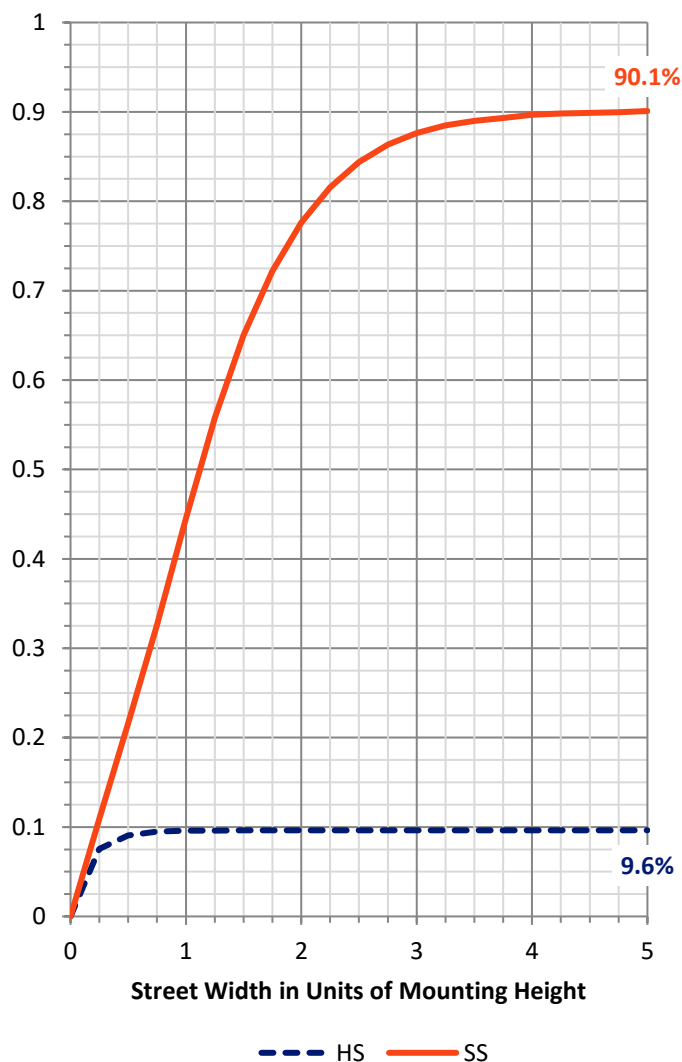
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1192.0	0.0	1192.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	11066.0	0.0	11066.0
	% Fixture	90.3	0.0	90.3
Total	Lumens	12258.0	0.0	12258.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	1.1
10°-20°	351.6	2.9
20°-30°	552.3	4.5
30°-40°	952.5	7.8
40°-50°	1812.3	14.8
50°-60°	2870.1	23.4
60°-70°	3349.0	27.3
70°-80°	2097.5	17.1
80°-90°	137.7	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°	12258.0	100.0
0°-180°	12258.0	100.0

Coefficient of Utilization



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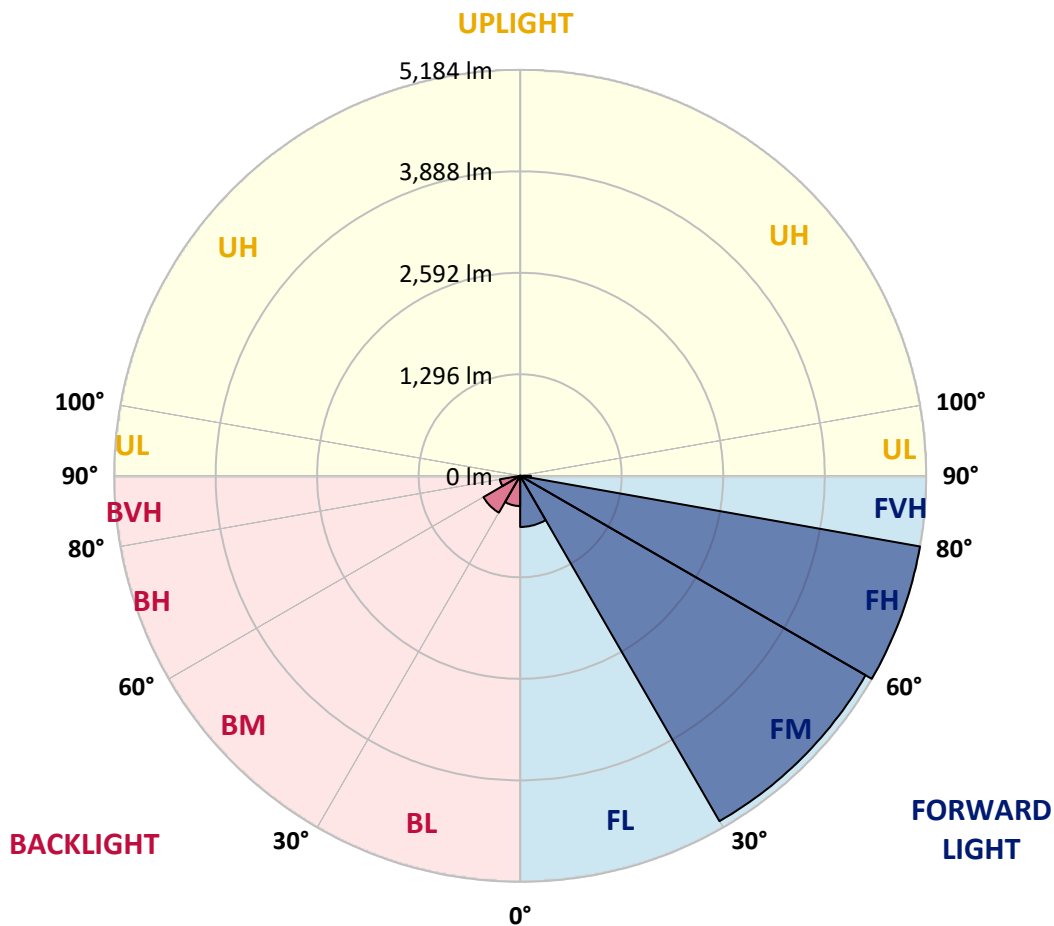
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	652.9	5.3			
FM (30°-60°)	5092.5	41.5			
FH (60°-80°)	5184.3	42.3			G3/7500
FVH (80°-90°)	136.4	1.1			G2/225
BL (0°-30°)	386.0	3.1	B1/500		
BM (30°-60°)	542.4	4.4	B1/1000		
BH (60°-80°)	262.3	2.1	B1/500		G1/500
BVH (80°-90°)	1.3	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1470.9	1470.9	1470.9	1470.9	1470.9	1470.9	1470.9	1470.9	1470.9	1470.9	1470.9
2.5°	1464.3	1457.7	1455.5	1453.3	1455.5	1457.7	1451.2	1457.7	1453.3	1455.5	1459.9
5°	1411.7	1405.1	1402.9	1405.1	1411.7	1422.7	1427.0	1433.6	1433.6	1440.2	1442.4
7.5°	1352.5	1348.1	1345.9	1350.3	1363.5	1387.6	1400.7	1409.5	1418.3	1431.4	1444.6
10°	1319.6	1317.4	1315.2	1321.8	1335.0	1356.9	1374.4	1387.6	1420.5	1457.7	1481.8
12.5°	1297.7	1297.7	1302.1	1315.2	1332.8	1350.3	1392.0	1409.5	1459.9	1516.9	1549.8
15°	1280.2	1280.2	1286.8	1310.9	1335.0	1376.6	1438.0	1457.7	1516.9	1587.1	1630.9
17.5°	1267.0	1271.4	1275.8	1299.9	1345.9	1416.1	1488.4	1516.9	1589.3	1666.0	1714.2
20°	1269.2	1273.6	1275.8	1299.9	1365.7	1462.1	1554.2	1587.1	1670.4	1751.5	1799.7
22.5°	1282.4	1288.9	1291.1	1324.0	1400.7	1510.3	1628.7	1666.0	1755.9	1841.3	1878.6
25°	1337.2	1341.6	1328.4	1356.9	1451.2	1584.9	1725.2	1764.6	1854.5	1933.4	1964.1
27.5°	1523.5	1527.9	1455.5	1422.7	1490.6	1646.3	1843.5	1898.3	2010.1	2062.7	2067.1
30°	1926.8	1931.2	1788.7	1633.1	1584.9	1698.9	1909.3	1986.0	2130.7	2189.9	2163.6
32.5°	2446.4	2442.0	2246.9	2016.7	1808.5	1790.9	2003.6	2084.7	2242.5	2299.5	2279.8
35°	2968.1	2974.7	2808.1	2461.7	2163.6	1964.1	2124.1	2218.4	2409.1	2490.2	2455.1
37.5°	3325.4	3369.2	3296.9	2922.0	2599.8	2284.1	2319.2	2420.1	2659.0	2768.6	2694.1
40°	3829.6	3818.6	3643.2	3367.0	3082.1	2757.6	2634.9	2683.1	2957.1	3104.0	2987.8
42.5°	4506.9	4485.0	4186.9	3917.2	3599.4	3334.2	3084.3	3075.5	3299.1	3470.1	3301.3
45°	5120.7	5087.8	4884.0	4623.1	4274.6	3969.9	3632.3	3555.6	3711.2	3855.9	3658.6
47.5°	5609.5	5554.7	5410.1	5272.0	5186.5	4713.0	4206.6	4090.4	4169.3	4276.7	3998.4
50°	6188.2	6037.0	5826.5	5743.2	5920.8	5554.7	4759.0	4647.2	4642.8	4704.2	4349.1
52.5°	6451.3	6177.3	6058.9	6129.1	6442.5	6337.3	5355.3	5195.2	5131.7	5138.2	4675.7
55°	6133.4	6102.7	6166.3	6385.5	6795.4	6734.1	5927.4	5730.1	5635.8	5517.5	4989.2
57.5°	5771.7	5866.0	6118.1	6536.8	7242.6	7148.4	6490.7	6267.2	6094.0	5822.2	5337.7
60°	5438.5	5535.0	5951.5	6571.9	7488.1	7547.3	6959.9	6747.2	6490.7	6133.4	5721.3
62.5°	4932.2	5006.7	5592.0	6521.4	7380.7	7779.7	7286.5	7126.5	6887.5	6429.4	6161.9
65°	4362.2	4410.5	4989.2	6118.1	7170.3	7753.4	7556.1	7466.2	7233.9	6738.5	6598.2
67.5°	3737.5	3794.5	4276.7	5392.5	6758.2	7630.6	7810.4	7801.6	7536.4	7080.4	6913.8
70°	3018.5	3022.9	3421.8	4471.8	6039.2	7385.1	8126.0	8145.8	7825.7	7336.9	6927.0
72.5°	1444.6	1563.0	2218.4	3121.5	4908.1	6902.9	8332.1	8430.7	8007.7	7328.1	6179.5
75°	331.0	342.0	646.7	1484.0	2878.2	5298.3	7817.0	8001.1	7564.9	6337.3	4353.5
77.5°	120.6	127.1	181.9	434.0	1107.0	2737.9	5594.2	5863.8	5592.0	4097.0	2058.4
80°	81.1	78.9	94.3	192.9	508.6	776.0	2860.7	3020.7	2757.6	1398.5	493.2
82.5°	41.6	43.8	65.8	107.4	342.0	269.6	955.7	1039.0	854.9	280.6	92.1
85°	19.7	19.7	37.3	68.0	144.7	94.3	212.6	256.5	230.2	122.8	30.7
87.5°	19.7	19.7	35.1	43.8	74.5	39.5	52.6	65.8	61.4	65.8	11.0
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°	1470.9	1470.9	1470.9	1470.9	1470.9	1470.9	1470.9	1470.9	1470.9	1470.9	1470.9
2.5°	1459.9	1457.7	1455.5	1459.9	1457.7	1462.1	1462.1	1466.5	1466.5	1462.1	1459.9
5°	1440.2	1435.8	1431.4	1431.4	1429.2	1433.6	1446.8	1457.7	1459.9	1453.3	1451.2
7.5°	1442.4	1442.4	1438.0	1429.2	1413.9	1413.9	1413.9	1427.0	1433.6	1429.2	1427.0
10°	1481.8	1484.0	1473.1	1453.3	1427.0	1402.9	1356.9	1288.9	1225.4	1207.8	1201.3
12.5°	1549.8	1552.0	1530.1	1495.0	1440.2	1297.7	1122.3	960.1	835.2	800.1	793.5
15°	1630.9	1633.1	1593.6	1536.6	1370.0	1039.0	778.2	594.1	484.4	458.1	456.0
17.5°	1714.2	1709.8	1650.6	1541.0	1161.8	736.5	473.5	379.2	350.7	344.2	346.3
20°	1795.3	1782.2	1701.1	1459.9	894.4	482.3	346.3	324.4	317.9	313.5	313.5
22.5°	1869.8	1843.5	1742.7	1299.9	626.9	346.3	309.1	304.7	295.9	289.4	287.2
25°	1944.4	1907.1	1769.0	1091.7	420.9	302.5	291.5	282.8	271.8	263.0	260.9
27.5°	2034.2	1981.6	1755.9	828.6	315.7	280.6	271.8	258.7	243.3	230.2	225.8
30°	2119.7	2060.6	1681.3	572.1	269.6	258.7	245.5	225.8	206.1	190.7	186.3
32.5°	2227.2	2159.2	1547.6	374.8	234.6	225.8	212.6	188.5	162.2	144.7	140.3
35°	2380.6	2303.9	1376.6	263.0	206.1	190.7	173.2	146.9	118.4	105.2	103.0
37.5°	2595.4	2492.4	1161.8	212.6	181.9	160.0	133.7	107.4	87.7	76.7	74.5
40°	2858.5	2700.6	922.9	188.5	162.2	133.7	100.8	76.7	63.6	54.8	54.8
42.5°	3143.4	2895.7	679.5	173.2	142.5	109.6	74.5	54.8	46.0	41.6	39.5
45°	3437.2	3068.9	458.1	160.0	124.9	83.3	52.6	37.3	30.7	30.7	28.5
47.5°	3741.9	3185.1	295.9	144.7	105.2	61.4	35.1	26.3	21.9	21.9	21.9
50°	4044.4	3246.5	210.4	131.5	85.5	41.6	26.3	19.7	17.5	17.5	17.5
52.5°	4263.6	3207.0	168.8	114.0	65.8	30.7	19.7	15.3	13.2	13.2	13.2
55°	4454.3	3139.1	146.9	98.6	48.2	21.9	15.3	13.2	11.0	11.0	11.0
57.5°	4649.4	3051.4	131.5	83.3	35.1	15.3	11.0	8.8	8.8	8.8	8.8
60°	4827.0	2902.3	114.0	65.8	24.1	11.0	8.8	6.6	6.6	6.6	6.6
62.5°	5000.1	2775.2	98.6	50.4	17.5	8.8	4.4	4.4	2.2	2.2	2.2
65°	5098.8	2604.2	78.9	32.9	11.0	6.6	2.2	2.2	0.0	0.0	0.0
67.5°	5068.1	2400.3	54.8	19.7	6.6	4.4	2.2	0.0	0.0	0.0	0.0
70°	4855.5	2126.3	32.9	11.0	6.6	4.4	2.2	0.0	0.0	0.0	0.0
72.5°	4066.3	1573.9	19.7	8.8	4.4	2.2	0.0	0.0	0.0	0.0	0.0
75°	2716.0	723.4	11.0	6.6	2.2	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	1242.9	217.0	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	249.9	57.0	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	52.6	11.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.2	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)