

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: P572893

Luminaire Tested: **ARCH-S-PA2-130-727-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-20)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-130-727-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9938 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

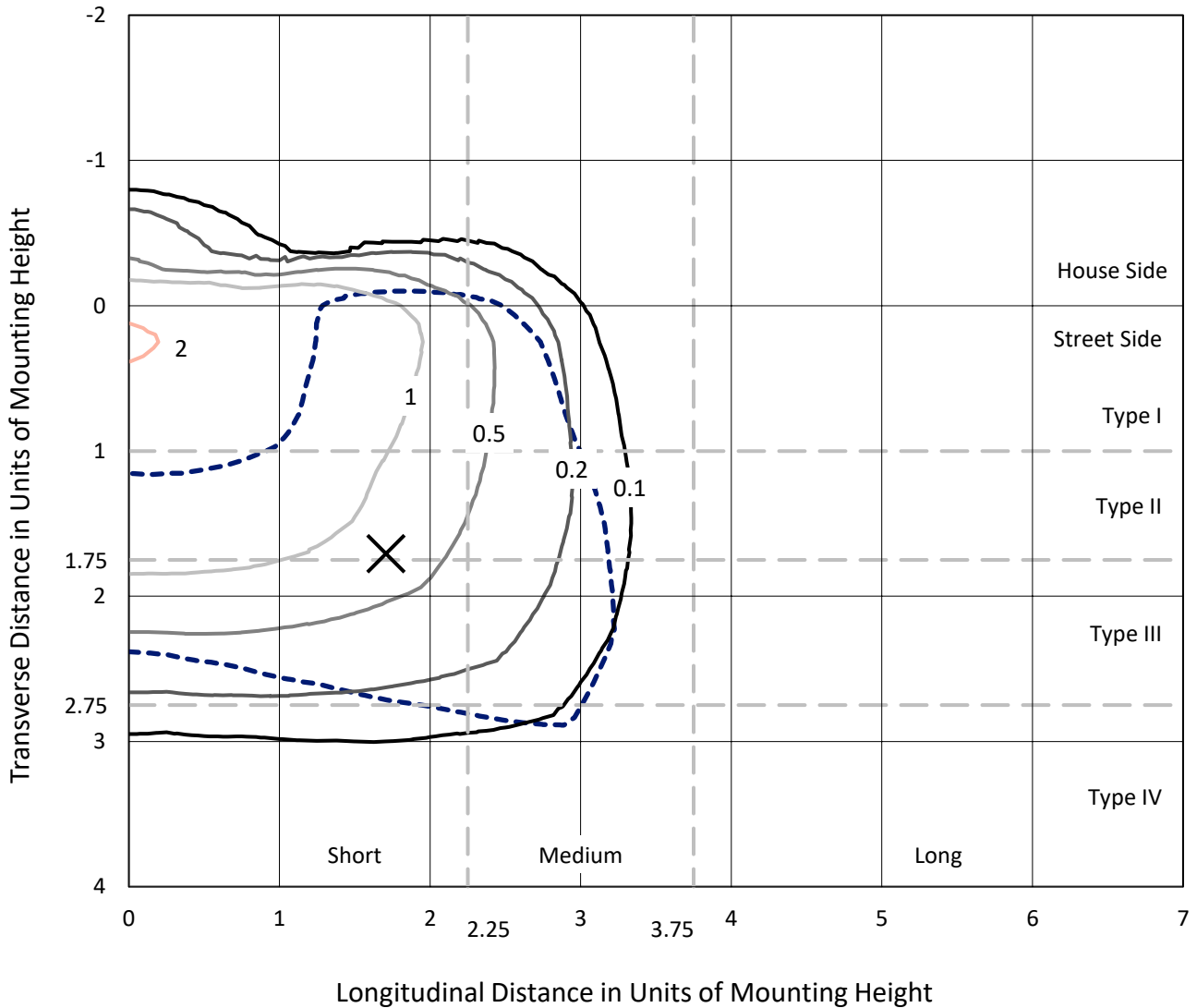
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

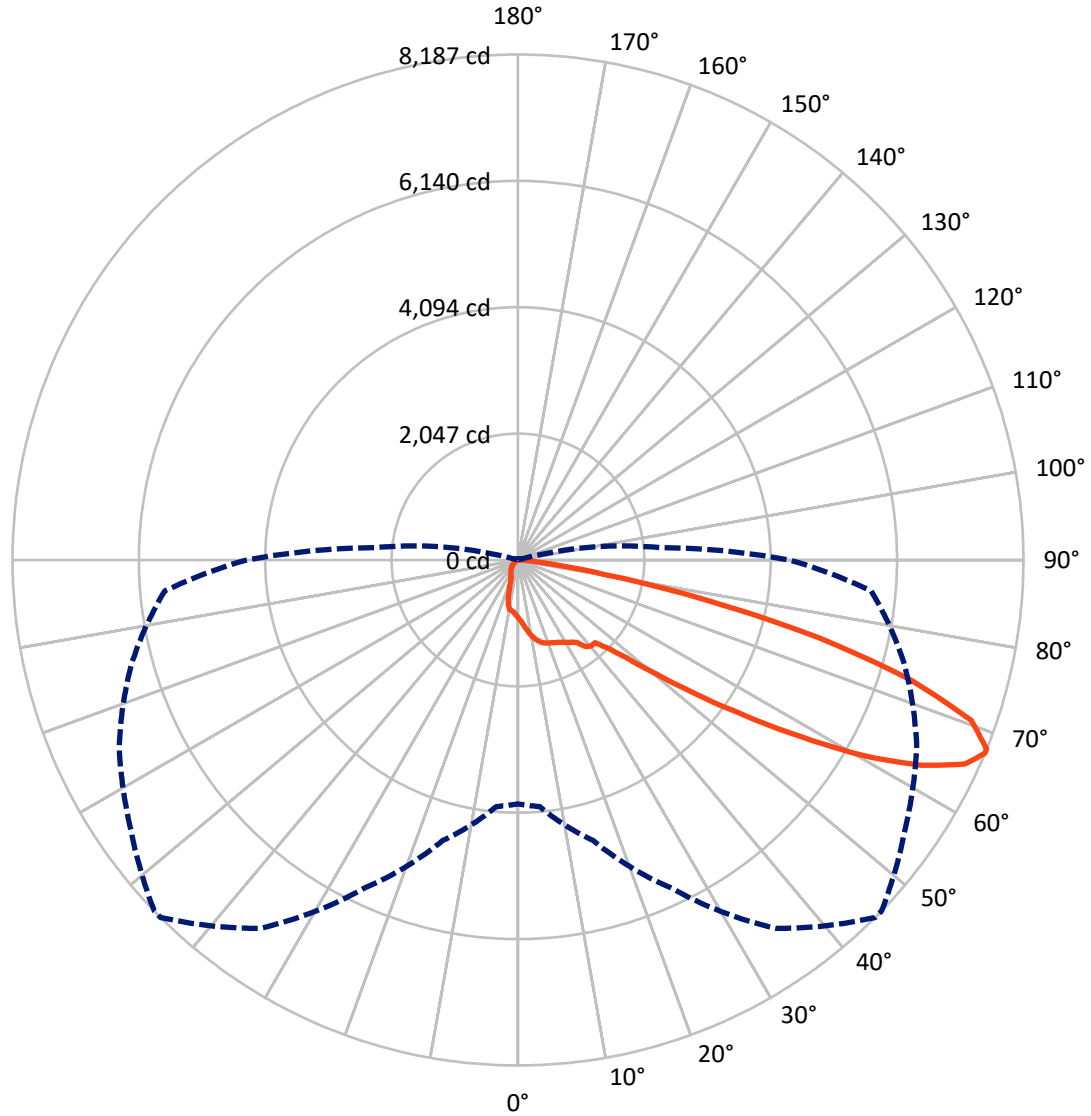
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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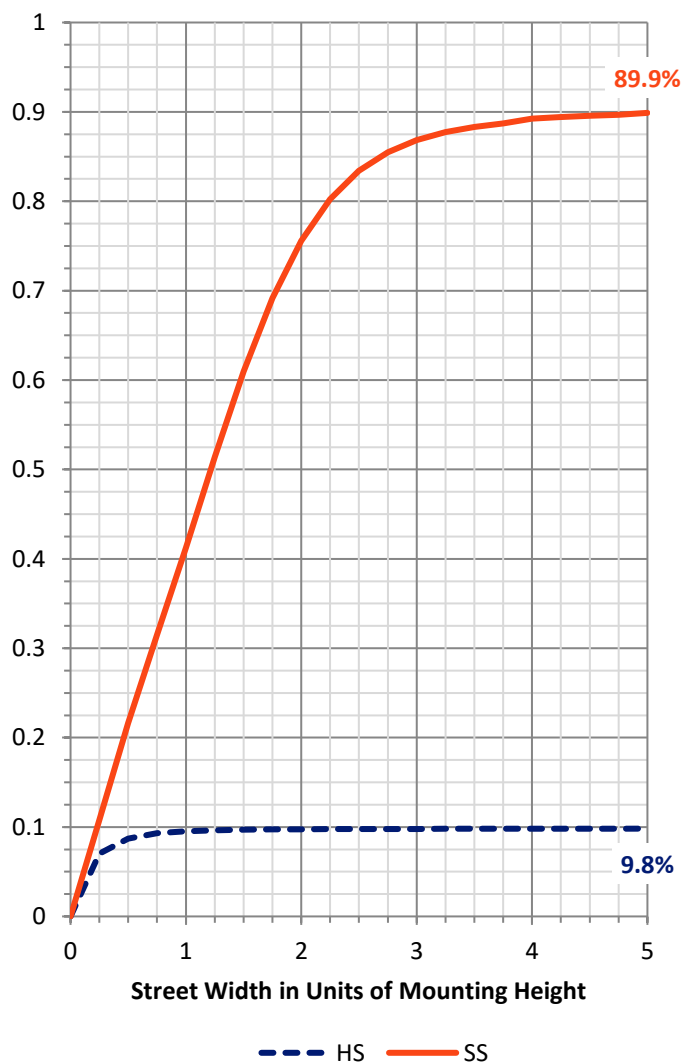
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	984.7	0.0	984.7
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	8953.3	0.0	8953.3
	% Fixture	90.1	0.0	90.1
Total	Lumens	9938.0	0.0	9938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	0.9
10°-20°	285.2	2.9
20°-30°	456.2	4.6
30°-40°	656.5	6.6
40°-50°	1151.8	11.6
50°-60°	2426.8	24.4
60°-70°	3356.0	33.8
70°-80°	1405.0	14.1
80°-90°	106.3	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°	9938.0	100.0
0°-180°	9938.0	100.0

Coefficient of Utilization



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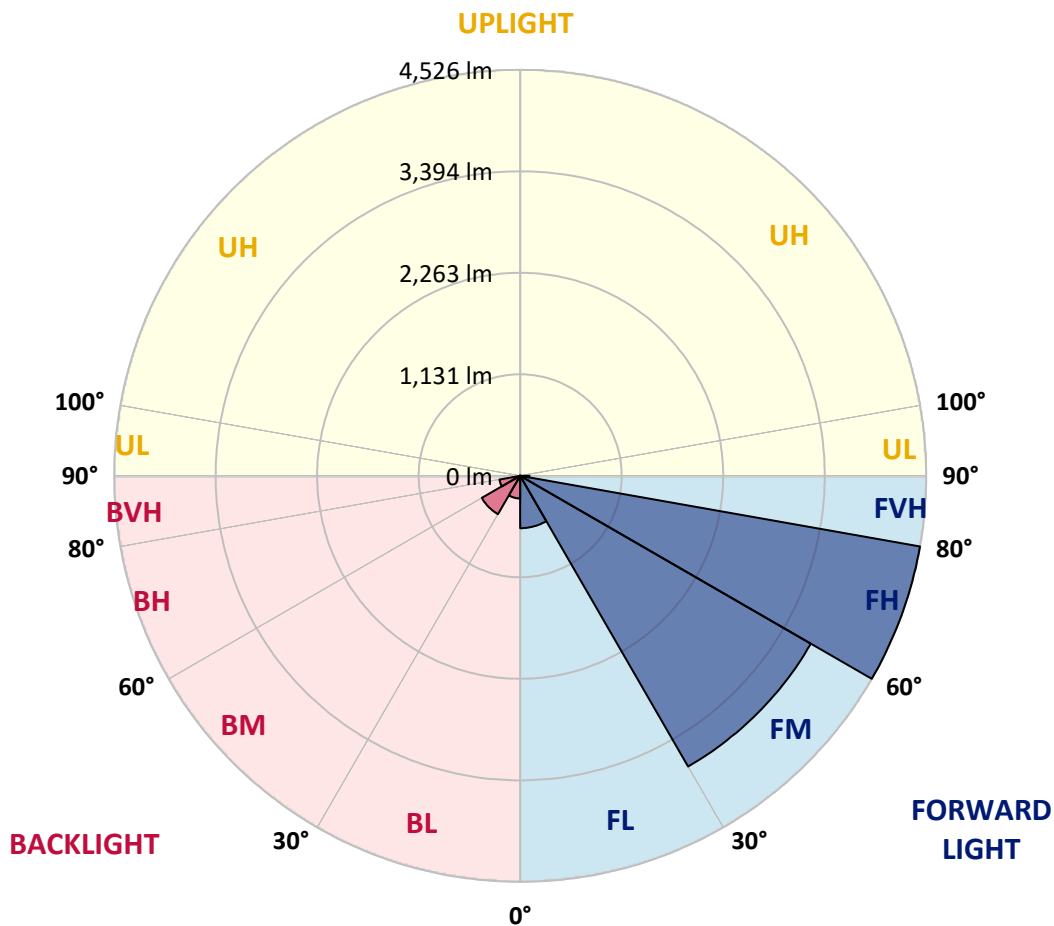
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	583.3	5.9			
FM (30°-60°)	3741.8	37.7			
FH (60°-80°)	4525.5	45.5			G2/5000
FVH (80°-90°)	102.7	1.0			G2/225
BL (0°-30°)	252.4	2.5	B1/500		
BM (30°-60°)	493.4	5.0	B1/1000		
BH (60°-80°)	235.4	2.4	B1/500		G1/500
BVH (80°-90°)	3.6	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9
2.5°	1046.3	1028.0	1024.3	1020.6	1009.6	994.9	998.6	987.6	969.2	958.2	947.2
5°	1174.8	1156.5	1149.1	1127.1	1105.1	1072.0	1072.0	1042.7	1009.6	980.3	950.9
7.5°	1307.0	1292.3	1277.6	1244.6	1211.5	1167.5	1163.8	1119.8	1068.4	1024.3	976.6
10°	1417.1	1406.1	1387.8	1347.4	1303.3	1255.6	1244.6	1204.2	1138.1	1079.4	1017.0
12.5°	1505.3	1494.2	1468.5	1428.2	1373.1	1325.4	1321.7	1270.3	1204.2	1141.8	1064.7
15°	1571.3	1553.0	1523.6	1479.6	1424.5	1380.4	1373.1	1329.0	1266.6	1196.9	1105.1
17.5°	1582.4	1571.3	1545.6	1497.9	1450.2	1413.5	1409.8	1376.8	1321.7	1248.3	1152.8
20°	1553.0	1549.3	1527.3	1490.6	1453.9	1435.5	1431.8	1409.8	1365.7	1299.7	1204.2
22.5°	1508.9	1505.3	1490.6	1472.2	1457.5	1453.9	1453.9	1446.5	1420.8	1358.4	1270.3
25°	1479.6	1475.9	1468.5	1457.5	1457.5	1479.6	1483.2	1490.6	1468.5	1420.8	1325.4
27.5°	1483.2	1475.9	1468.5	1457.5	1472.2	1512.6	1516.3	1534.6	1516.3	1472.2	1387.8
30°	1534.6	1523.6	1501.6	1475.9	1494.2	1549.3	1553.0	1575.0	1560.3	1538.3	1457.5
32.5°	1615.4	1608.1	1564.0	1519.9	1531.0	1586.0	1593.4	1633.8	1652.1	1619.1	1519.9
35°	1732.9	1707.2	1652.1	1608.1	1600.7	1641.1	1652.1	1718.2	1765.9	1685.2	1556.7
37.5°	1828.3	1806.3	1718.2	1648.4	1688.8	1780.6	1784.3	1865.0	1824.7	1692.5	1615.4
40°	2151.4	2147.7	1993.5	1773.3	1729.2	1832.0	1846.7	1861.4	1843.0	1776.9	1743.9
42.5°	2672.7	2628.7	2456.1	2118.4	1817.3	1828.3	1835.7	1912.8	2008.2	1978.9	1989.9
45°	3238.1	3201.4	3006.8	2581.0	2118.4	2026.6	2033.9	2158.8	2342.3	2379.0	2437.8
47.5°	3759.5	3700.7	3590.6	3161.0	2632.4	2364.4	2379.0	2529.6	2834.3	2915.1	3006.8
50°	4200.0	4159.6	4056.8	3774.2	3263.8	2896.7	2911.4	3036.2	3432.7	3561.2	3678.7
52.5°	4838.8	4783.8	4585.5	4453.4	4067.9	3590.6	3557.5	3689.7	4145.0	4229.4	4387.3
55°	5426.3	5312.5	5195.0	5139.9	4978.4	4420.3	4409.3	4435.0	4813.1	4857.2	5139.9
57.5°	5675.9	5653.9	5753.0	5936.6	5973.3	5396.9	5349.2	5250.0	5547.4	5543.7	5874.2
60°	5833.8	5833.8	6098.1	6553.4	6847.1	6439.6	6373.5	6065.1	6171.6	6175.2	6479.9
62.5°	5734.7	5760.4	6171.6	6858.1	7449.2	7324.4	7280.3	6762.6	6755.3	6670.9	6777.3
65°	5121.5	5165.6	5826.4	6689.2	7669.5	7963.2	7944.8	7357.4	7144.5	6836.1	6597.4
67°	4178.0	4258.8	5059.1	6079.8	7419.8	8183.5	8187.1	7614.4	7148.1	6560.7	5962.3
67.5°	3950.4	4009.1	4703.0	5859.5	7284.0	8187.1	8187.1	7647.4	7126.1	6476.3	5742.0
70°	2518.6	2533.2	3289.5	4534.1	6222.9	7790.6	7820.0	7397.8	6491.0	5242.7	4031.1
72.5°	1244.6	1211.5	1736.6	2918.7	4670.0	6667.2	6744.3	6318.4	5136.2	3425.4	2129.4
75°	488.3	521.3	756.3	1553.0	2926.1	5026.1	5084.8	4596.5	3304.2	1765.9	840.7
77.5°	216.6	216.6	323.1	697.6	1538.3	3083.9	3113.3	2804.9	1743.9	726.9	257.0
80°	117.5	124.8	168.9	304.7	774.7	1417.1	1545.6	1391.4	789.3	319.4	88.1
82.5°	58.7	62.4	102.8	172.6	389.2	536.0	565.4	591.1	363.5	198.3	36.7
85°	22.0	25.7	55.1	99.1	176.2	179.9	179.9	231.3	198.3	150.5	18.4
87.5°	3.7	7.3	25.7	40.4	69.8	62.4	55.1	73.4	110.1	95.5	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°	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9	939.9
2.5°	939.9	932.5	917.8	906.8	899.5	892.1	884.8	884.8	881.1	881.1	884.8
5°	939.9	925.2	895.8	877.5	862.8	851.8	844.4	844.4	840.7	844.4	848.1
7.5°	958.2	936.2	895.8	862.8	844.4	826.1	818.7	815.0	815.0	818.7	815.0
10°	987.6	958.2	906.8	862.8	837.1	811.4	771.0	734.3	701.2	686.5	682.9
12.5°	1024.3	987.6	925.2	873.8	833.4	745.3	635.1	565.4	521.3	499.3	492.0
15°	1064.7	1020.6	947.2	888.5	778.3	613.1	469.9	392.8	367.1	370.8	374.5
17.5°	1108.7	1061.0	980.3	881.1	668.2	455.2	345.1	326.8	337.8	348.8	348.8
20°	1152.8	1101.4	1013.3	826.1	525.0	337.8	308.4	312.1	323.1	334.1	334.1
22.5°	1211.5	1156.5	1046.3	730.6	389.2	293.7	293.7	301.1	308.4	319.4	319.4
25°	1274.0	1218.9	1068.4	613.1	290.0	275.4	279.0	286.4	293.7	304.7	304.7
27.5°	1340.0	1285.0	1064.7	473.6	253.3	253.3	257.0	268.0	275.4	286.4	286.4
30°	1413.5	1365.7	1024.3	345.1	235.0	231.3	231.3	242.3	253.3	260.7	264.3
32.5°	1475.9	1435.5	954.6	260.7	220.3	212.9	209.3	212.9	224.0	231.3	235.0
35°	1527.3	1512.6	851.8	224.0	205.6	194.6	187.2	183.6	187.2	187.2	190.9
37.5°	1622.7	1626.4	730.6	209.3	194.6	179.9	165.2	154.2	146.9	143.2	139.5
40°	1802.6	1799.0	602.1	198.3	183.6	165.2	143.2	128.5	110.1	102.8	102.8
42.5°	2056.0	2000.9	458.9	187.2	172.6	150.5	121.2	99.1	80.8	77.1	77.1
45°	2511.2	2283.6	345.1	179.9	161.5	132.2	99.1	73.4	62.4	58.7	58.7
47.5°	3014.2	2610.3	275.4	168.9	150.5	117.5	77.1	58.7	47.7	47.7	47.7
50°	3568.6	2922.4	231.3	157.9	132.2	99.1	62.4	47.7	44.1	40.4	44.1
52.5°	4174.3	3168.4	201.9	143.2	113.8	80.8	51.4	44.1	36.7	36.7	36.7
55°	4717.7	3333.6	168.9	124.8	95.5	66.1	47.7	36.7	33.0	29.4	25.7
57.5°	5209.7	3421.7	135.8	106.5	73.4	55.1	40.4	29.4	25.7	18.4	18.4
60°	5463.0	3340.9	106.5	84.4	58.7	44.1	33.0	25.7	18.4	11.0	11.0
62.5°	5503.4	3131.7	84.4	66.1	51.4	36.7	25.7	18.4	11.0	7.3	7.3
65°	5150.9	2764.5	69.8	55.1	40.4	29.4	22.0	14.7	7.3	3.7	3.7
67°	4519.4	2379.0	62.4	47.7	36.7	25.7	18.4	11.0	7.3	3.7	0.0
67.5°	4394.6	2309.3	58.7	47.7	36.7	25.7	18.4	11.0	7.3	3.7	0.0
70°	2885.7	1597.0	55.1	44.1	33.0	22.0	14.7	11.0	3.7	0.0	0.0
72.5°	1575.0	804.0	51.4	40.4	29.4	22.0	14.7	7.3	3.7	0.0	0.0
75°	576.4	304.7	44.1	36.7	25.7	22.0	14.7	7.3	3.7	0.0	0.0
77.5°	194.6	106.5	40.4	36.7	29.4	22.0	14.7	7.3	3.7	0.0	0.0
80°	66.1	47.7	33.0	29.4	22.0	18.4	14.7	7.3	3.7	0.0	0.0
82.5°	25.7	14.7	11.0	11.0	11.0	14.7	14.7	11.0	3.7	0.0	0.0
85°	11.0	7.3	3.7	3.7	3.7	3.7	3.7	3.7	3.7	0.0	0.0
87.5°	11.0	7.3	3.7	3.7	3.7	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)