

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: P237185

Luminaire Tested: **ARCH-L-AF72-120-D-U-T3-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29624)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-120-D-U-T3-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 530mA 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: 11714.8 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

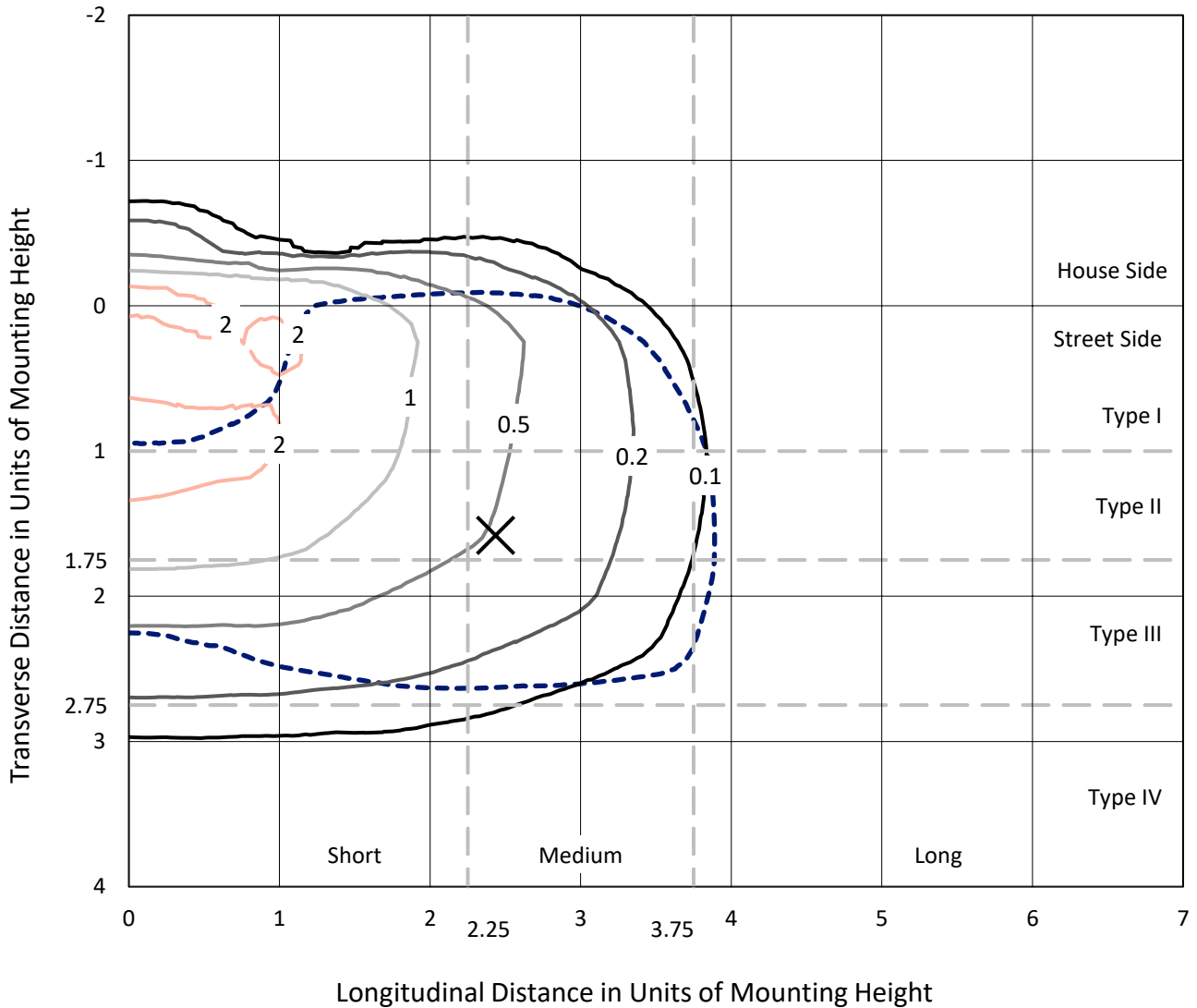
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

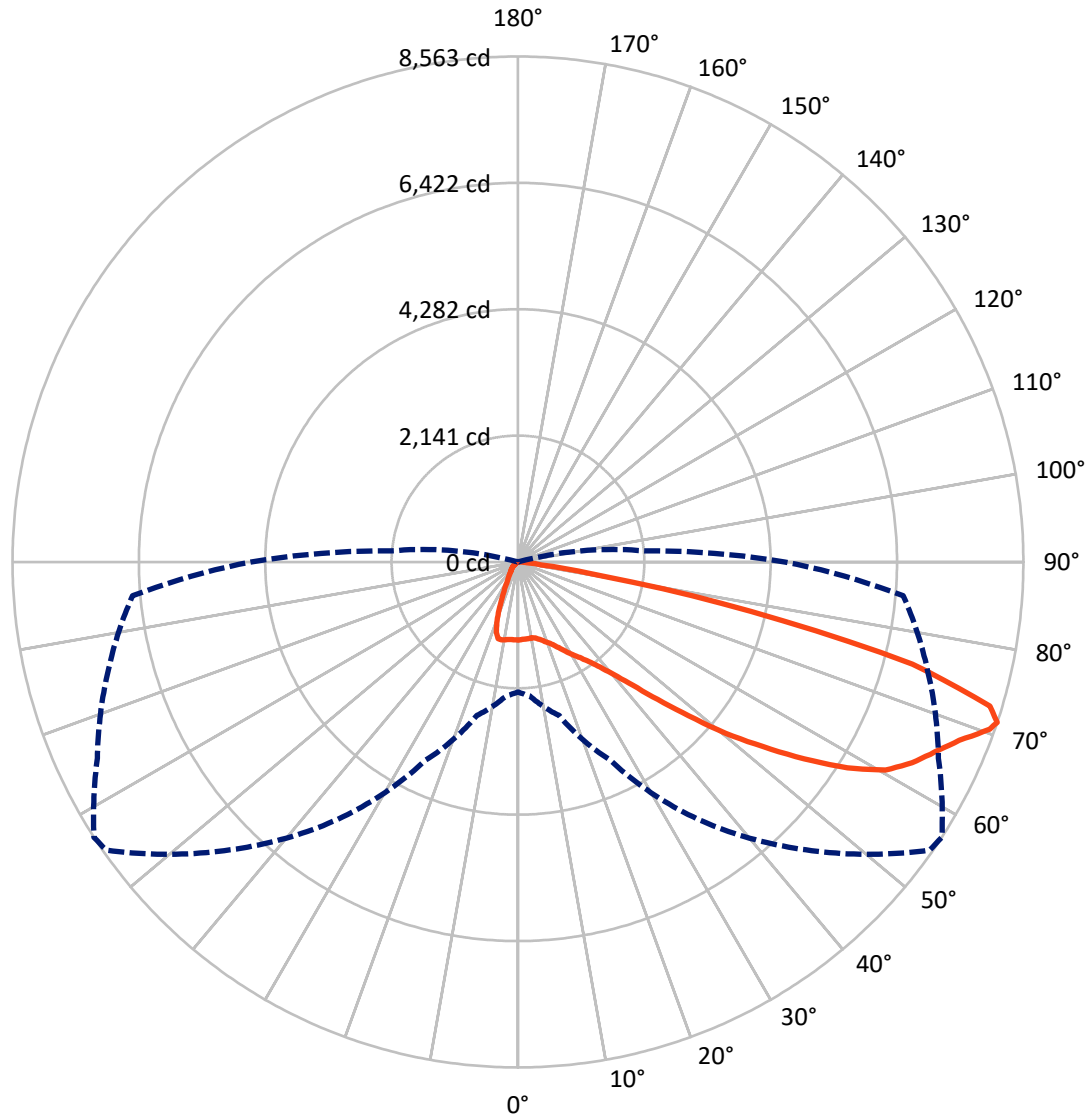
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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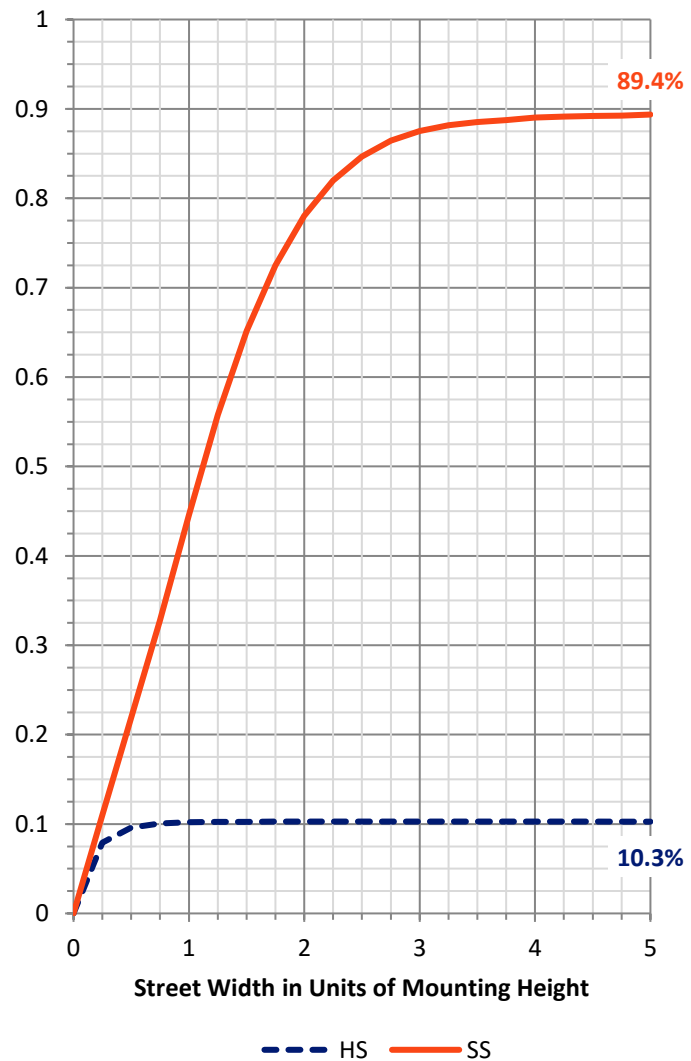
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1214.0	0.0	1214.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	10500.8	0.0	10500.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	11714.8	0.0	11714.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	1.1
10°-20°	332.4	2.8
20°-30°	518.6	4.4
30°-40°	876.5	7.5
40°-50°	1702.5	14.5
50°-60°	2859.0	24.4
60°-70°	3411.9	29.1
70°-80°	1798.1	15.3
80°-90°	91.4	0.8
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°	11714.8	100.0
0°-180°	11714.8	100.0



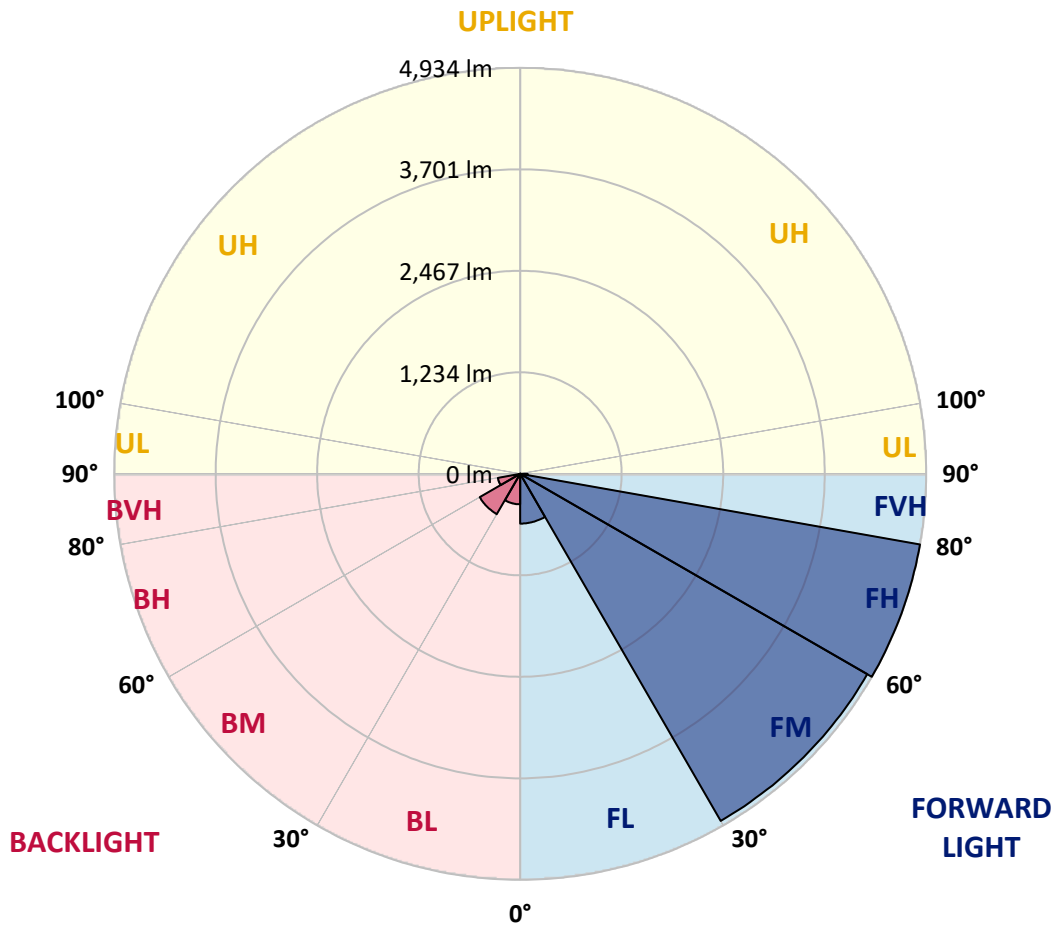
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	604.8	5.2			
FM (30°-60°)	4871.1	41.6			
FH (60°-80°)	4934.3	42.1			G2/5000
FVH (80°-90°)	90.5	0.8			G1/100
BL (0°-30°)	370.6	3.2	B1/500		
BM (30°-60°)	566.9	4.8	B1/1000		
BH (60°-80°)	275.7	2.4	B1/500		G1/500
BVH (80°-90°)	0.9	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1323.9	1323.9	1323.9	1323.9	1323.9	1323.9	1323.9	1323.9	1323.9	1323.9	1323.9
2.5°	1304.9	1304.9	1304.9	1307.7	1310.3	1310.3	1315.8	1313.1	1313.1	1313.1	1318.5
5°	1269.4	1272.1	1274.8	1280.3	1291.2	1299.4	1313.1	1313.1	1315.8	1321.3	1323.9
7.5°	1220.2	1222.9	1231.2	1242.1	1263.9	1283.0	1304.9	1310.3	1318.5	1332.1	1337.6
10°	1190.2	1195.7	1206.5	1220.2	1244.8	1269.4	1296.7	1304.9	1329.3	1353.9	1367.6
12.5°	1181.9	1184.7	1195.7	1217.4	1247.5	1277.6	1313.1	1321.3	1356.7	1394.9	1416.8
15°	1195.7	1198.3	1203.8	1228.4	1263.9	1302.2	1348.5	1359.4	1403.1	1446.8	1474.1
17.5°	1220.2	1220.2	1225.7	1247.5	1285.8	1329.3	1389.4	1405.8	1455.0	1504.1	1534.1
20°	1236.6	1236.6	1244.8	1266.7	1310.3	1367.6	1438.6	1460.5	1515.0	1569.6	1597.0
22.5°	1252.9	1255.7	1263.9	1288.5	1337.6	1416.8	1498.6	1520.5	1583.2	1640.6	1668.0
25°	1299.4	1296.7	1299.4	1321.3	1378.6	1476.8	1580.6	1607.9	1673.5	1736.1	1749.8
27.5°	1427.7	1422.2	1386.7	1373.1	1416.8	1539.6	1684.2	1711.5	1788.0	1850.8	1850.8
30°	1722.5	1711.5	1624.2	1512.2	1476.8	1597.0	1782.6	1820.8	1919.0	1973.7	1957.3
32.5°	2096.4	2071.9	1960.0	1768.9	1627.0	1673.5	1886.3	1929.9	2055.5	2101.9	2066.4
35°	2506.0	2503.2	2364.1	2118.3	1916.3	1831.7	2020.1	2071.9	2230.2	2271.2	2213.8
37.5°	2939.9	2950.9	2858.1	2519.6	2282.1	2091.0	2197.5	2257.6	2451.3	2500.5	2445.9
40°	3423.2	3420.5	3385.0	2983.7	2721.6	2459.5	2454.1	2508.7	2743.4	2819.9	2743.4
42.5°	4034.6	4029.2	3900.9	3540.5	3254.0	2939.9	2828.0	2847.2	3109.2	3234.8	3122.8
45°	4657.0	4618.8	4471.4	4160.1	3906.3	3535.1	3322.1	3322.1	3546.0	3718.0	3543.3
47.5°	5003.7	4965.5	4905.4	4733.4	4657.0	4242.1	3928.2	3889.9	4064.7	4239.4	3993.7
50°	5459.5	5459.5	5309.5	5243.9	5374.9	5082.8	4597.0	4558.8	4643.4	4782.6	4460.5
52.5°	5819.9	5754.3	5647.9	5705.3	6079.1	5945.5	5265.8	5192.1	5257.5	5293.1	4867.2
55°	5970.0	5907.2	5899.1	6109.2	6688.0	6502.3	5951.0	5885.5	5880.0	5705.3	5222.0
57.5°	6000.1	5945.5	6049.2	6417.8	7280.4	6958.2	6633.3	6584.3	6431.3	5994.6	5585.2
60°	5746.2	5773.5	6024.7	6587.0	7629.8	7354.0	7209.4	7157.5	6805.3	6240.4	5989.1
62.5°	5224.8	5290.4	5759.8	6603.4	7501.4	7515.1	7528.7	7493.2	7094.7	6464.1	6395.9
65°	4607.9	4627.0	5192.1	6376.8	7277.6	7466.0	7763.5	7760.8	7315.8	6715.3	6854.5
67.5°	3797.1	3829.9	4318.5	5612.4	6829.9	7444.2	8072.0	8063.8	7567.0	7001.9	7127.5
70°	2825.3	2866.3	3262.1	4364.9	5830.8	7171.1	8476.0	8481.5	7831.8	7220.3	6939.2
71°	2202.8	2276.6	2691.6	3707.0	5320.4	6895.5	8514.2	8563.3	7861.7	7190.3	6551.5
72.5°	1081.0	1168.3	1689.7	2609.6	4378.6	6278.5	8263.1	8358.7	7673.4	6816.2	5601.5
75°	281.2	297.5	505.0	1067.4	2347.7	4160.1	6663.4	6906.4	6273.0	5189.4	3423.2
77.5°	177.4	182.9	237.5	414.9	879.0	1580.6	3914.5	4034.6	3584.2	2628.8	1206.5
80°	125.5	128.3	150.1	267.4	513.2	461.3	1408.6	1460.5	1296.7	696.1	215.7
82.5°	76.5	76.5	109.2	172.0	316.7	251.2	371.3	395.8	349.4	193.8	71.0
85°	43.7	46.4	68.3	117.4	150.1	122.8	139.2	147.4	150.1	128.3	30.0
87.5°	35.5	38.2	60.1	98.3	82.0	60.1	60.1	62.9	65.5	76.5	13.6
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°	1323.9	1323.9	1323.9	1323.9	1323.9	1323.9	1323.9	1323.9	1323.9	1323.9	1323.9
2.5°	1318.5	1318.5	1321.3	1318.5	1318.5	1318.5	1321.3	1321.3	1321.3	1326.6	1329.3
5°	1323.9	1323.9	1323.9	1321.3	1318.5	1318.5	1323.9	1326.6	1326.6	1334.8	1334.8
7.5°	1337.6	1337.6	1332.1	1326.6	1321.3	1313.1	1315.8	1318.5	1315.8	1318.5	1318.5
10°	1367.6	1367.6	1359.4	1348.5	1332.1	1307.7	1274.8	1233.9	1195.7	1181.9	1176.5
12.5°	1416.8	1414.1	1397.7	1378.6	1343.1	1258.4	1135.6	990.9	870.8	838.0	827.1
15°	1471.4	1465.9	1446.8	1414.1	1318.5	1094.7	838.0	652.4	537.8	510.5	505.0
17.5°	1528.6	1520.5	1493.2	1427.7	1206.5	813.4	540.5	409.5	346.7	341.2	343.9
20°	1588.7	1577.8	1539.6	1400.3	974.5	543.2	349.4	316.7	311.2	311.2	313.9
22.5°	1657.0	1643.4	1591.5	1302.2	709.7	360.3	300.3	297.5	294.8	292.0	292.0
25°	1736.1	1719.7	1640.6	1124.8	488.6	294.8	286.6	278.4	272.9	267.4	264.7
27.5°	1831.7	1809.9	1678.8	906.3	335.8	275.7	270.2	256.6	245.8	234.8	234.8
30°	1927.3	1899.9	1668.0	682.5	272.9	256.6	245.8	229.3	212.9	202.0	199.3
32.5°	2028.2	2001.0	1597.0	458.6	248.4	234.8	221.1	196.5	177.4	163.8	161.0
35°	2178.4	2156.6	1457.7	302.9	223.9	207.5	188.4	163.8	139.2	125.5	122.8
37.5°	2402.2	2375.0	1285.8	232.0	196.5	172.0	155.5	128.3	103.7	90.0	87.4
40°	2702.5	2620.6	1081.0	204.8	172.0	141.9	120.0	92.8	73.8	65.5	65.5
42.5°	3051.9	2858.1	859.9	185.6	152.9	117.4	87.4	62.9	51.9	49.1	49.1
45°	3423.2	3079.3	638.7	172.0	133.8	92.8	62.9	43.7	38.2	35.5	35.5
47.5°	3805.3	3259.4	444.9	155.5	111.9	71.0	43.7	32.8	27.4	24.6	24.6
50°	4162.9	3376.7	313.9	139.2	95.5	51.9	32.8	24.6	19.1	19.1	19.1
52.5°	4411.4	3365.8	226.6	120.0	73.8	35.5	21.9	16.4	16.4	16.4	16.4
55°	4629.8	3324.9	177.4	103.7	57.4	24.6	16.4	13.6	13.6	10.9	10.9
57.5°	4815.4	3259.4	150.1	84.6	41.0	19.1	10.9	10.9	8.2	8.2	8.2
60°	4973.7	3177.5	125.5	71.0	27.4	13.6	8.2	5.5	5.5	2.7	5.5
62.5°	5189.4	3125.6	109.2	54.6	19.1	8.2	5.5	2.7	2.7	0.0	0.0
65°	5347.7	3027.3	92.8	38.2	10.9	5.5	2.7	2.7	0.0	0.0	0.0
67.5°	5353.1	2849.9	68.3	21.9	8.2	5.5	2.7	0.0	0.0	0.0	0.0
70°	4921.8	2429.5	43.7	10.9	5.5	2.7	2.7	0.0	0.0	0.0	0.0
71°	4525.9	2151.1	35.5	8.2	5.5	2.7	0.0	0.0	0.0	0.0	0.0
72.5°	3728.9	1580.6	27.4	8.2	2.7	2.7	0.0	0.0	0.0	0.0	0.0
75°	2055.5	573.3	13.6	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	657.8	174.7	8.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	111.9	27.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	38.2	10.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.9	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	2.7	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)