

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: P237182

Luminaire Tested: **ARCH-L-AF72-90-D-U-T3-7030-HSS**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237182
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-AF72-90-D-U-T3-7030-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 400mA 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: 9234.6 lumens
Efficiency: N/A
Efficacy: 99.3 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

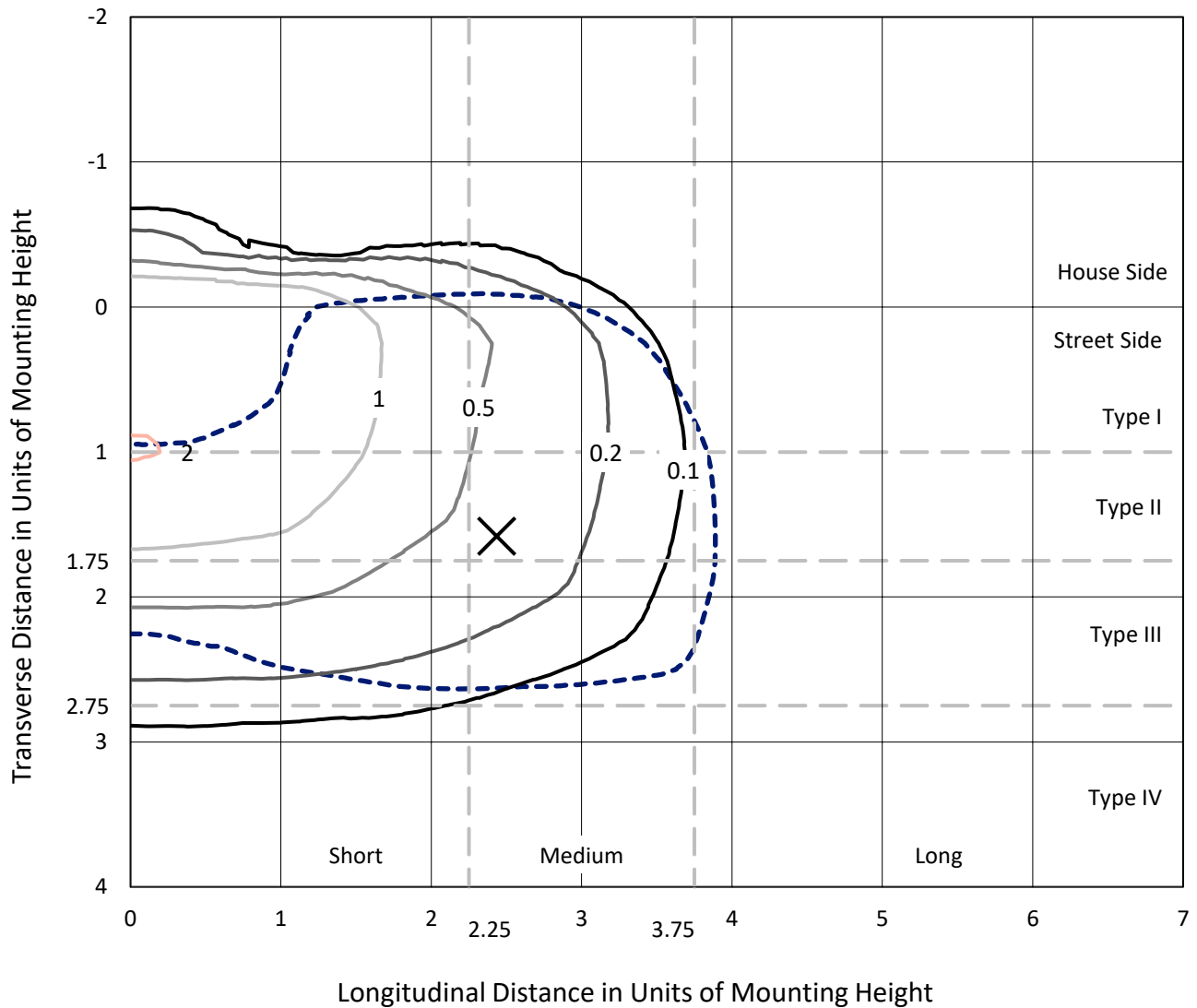
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

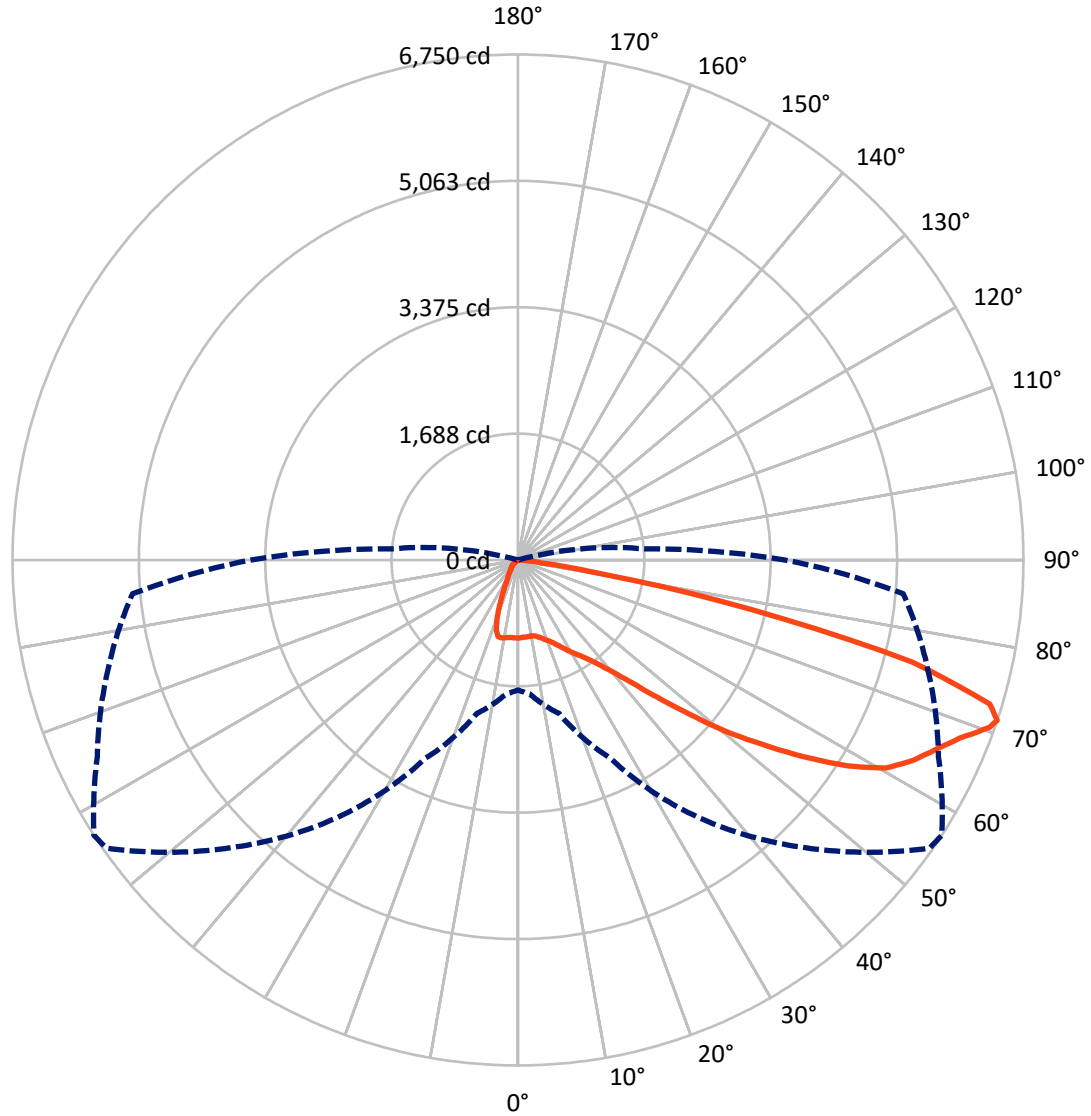
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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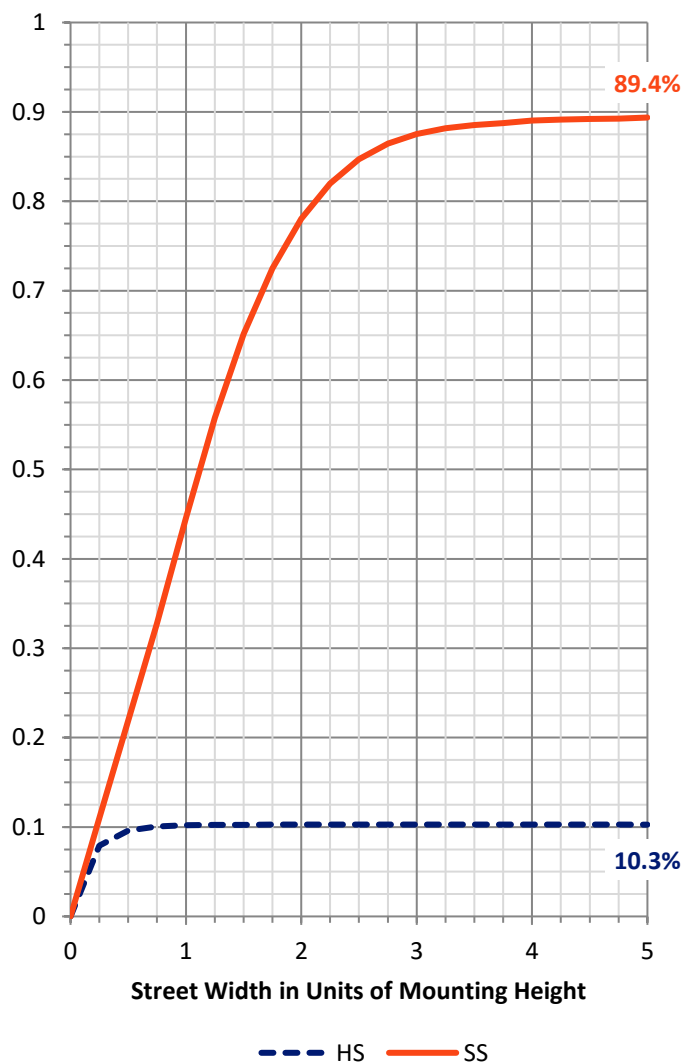
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	957.0	0.0	957.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	8277.6	0.0	8277.6
	% Fixture	89.6	0.0	89.6
Total	Lumens	9234.6	0.0	9234.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	1.1
10°-20°	262.1	2.8
20°-30°	408.8	4.4
30°-40°	691.0	7.5
40°-50°	1342.0	14.5
50°-60°	2253.7	24.4
60°-70°	2689.6	29.1
70°-80°	1417.4	15.3
80°-90°	72.0	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°	9234.6	100.0
0°-180°	9234.6	100.0

Coefficient of Utilization



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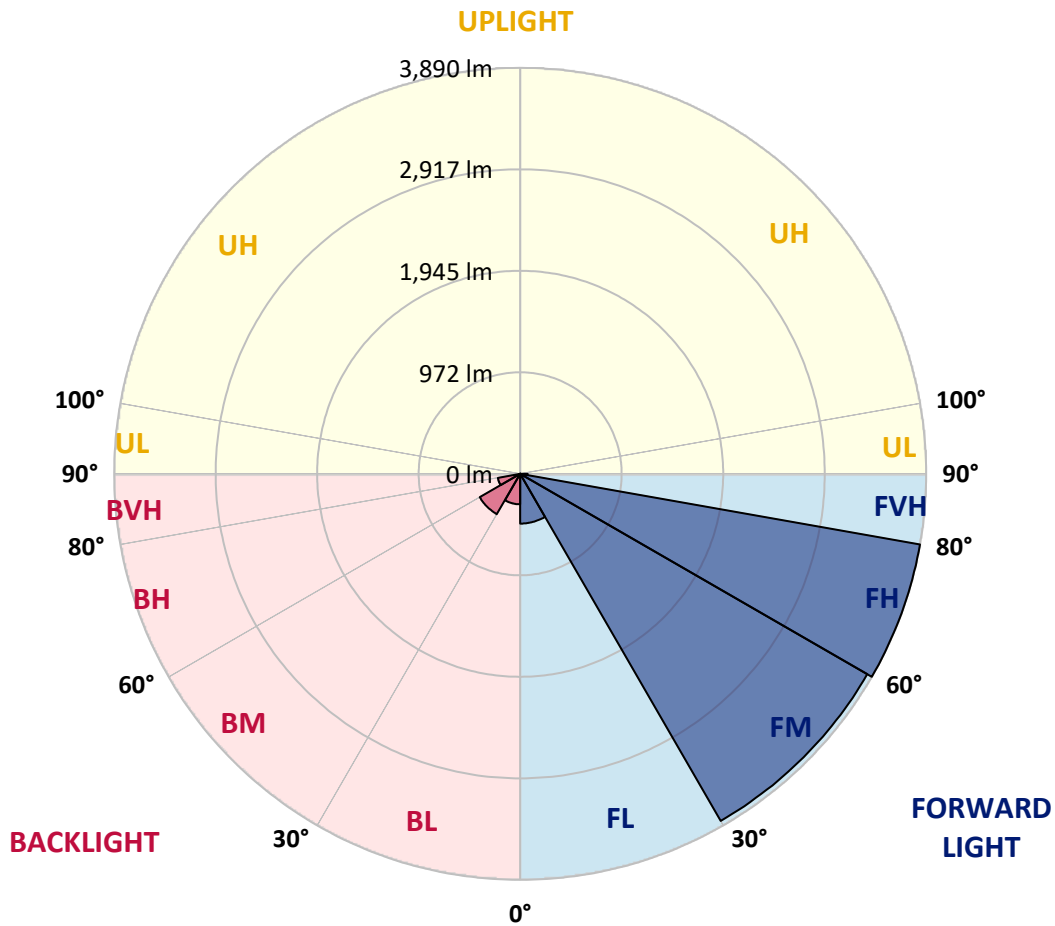
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	476.8	5.2			
FM (30°-60°)	3839.8	41.6			
FH (60°-80°)	3889.7	42.1			G2/5000
FVH (80°-90°)	71.3	0.8			G1/100
BL (0°-30°)	292.1	3.2	B1/500		
BM (30°-60°)	446.9	4.8	B1/1000		
BH (60°-80°)	217.3	2.4	B1/500		G1/500
BVH (80°-90°)	0.7	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°	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7
2.5°	1028.5	1028.5	1028.5	1030.8	1032.9	1032.9	1037.2	1035.0	1035.0	1035.0	1039.4
5°	1000.6	1002.8	1004.9	1009.2	1017.9	1024.3	1035.0	1035.0	1037.2	1041.5	1043.7
7.5°	961.9	964.0	970.4	979.1	996.3	1011.4	1028.5	1032.9	1039.4	1050.1	1054.5
10°	938.2	942.5	951.1	961.9	981.2	1000.6	1022.1	1028.5	1047.9	1067.4	1078.1
12.5°	931.8	933.9	942.5	959.8	983.5	1007.1	1035.0	1041.5	1069.4	1099.5	1116.8
15°	942.5	944.6	948.9	968.4	996.3	1026.4	1063.0	1071.7	1106.0	1140.4	1162.0
17.5°	961.9	961.9	966.2	983.5	1013.5	1047.9	1095.4	1108.2	1146.9	1185.7	1209.4
20°	974.8	974.8	981.2	998.4	1032.9	1078.1	1134.0	1151.3	1194.3	1237.4	1258.8
22.5°	987.7	989.9	996.3	1015.7	1054.5	1116.8	1181.4	1198.6	1248.1	1293.3	1314.8
25°	1024.3	1022.1	1024.3	1041.5	1086.7	1164.1	1245.9	1267.4	1319.1	1368.6	1379.3
27.5°	1125.4	1121.1	1093.1	1082.4	1116.8	1213.7	1327.7	1349.3	1409.5	1458.9	1458.9
30°	1357.9	1349.3	1280.3	1192.1	1164.1	1258.8	1405.2	1435.3	1512.8	1555.8	1542.8
32.5°	1652.6	1633.2	1545.0	1394.3	1282.4	1319.1	1486.9	1521.3	1620.4	1656.9	1628.9
35°	1975.4	1973.2	1863.5	1669.8	1510.6	1443.9	1592.4	1633.2	1758.1	1790.3	1745.2
37.5°	2317.5	2326.1	2253.0	1986.2	1799.0	1648.2	1732.2	1779.7	1932.4	1971.1	1928.1
40°	2698.3	2696.3	2668.3	2352.1	2145.5	1938.8	1934.6	1977.6	2162.6	2222.9	2162.6
42.5°	3180.4	3176.1	3075.0	2790.9	2565.0	2317.5	2229.3	2244.4	2451.0	2549.9	2461.7
45°	3671.1	3640.9	3524.7	3279.4	3079.3	2786.6	2618.8	2618.8	2795.3	2930.8	2793.1
47.5°	3944.4	3914.2	3866.9	3731.3	3671.1	3344.0	3096.5	3066.4	3204.1	3341.8	3148.2
50°	4303.7	4303.7	4185.4	4133.8	4237.0	4006.7	3623.7	3593.6	3660.3	3770.1	3516.2
52.5°	4587.8	4536.1	4452.2	4497.3	4792.2	4686.7	4151.0	4092.9	4144.4	4172.4	3836.7
55°	4706.2	4656.6	4650.2	4815.8	5272.1	5125.7	4691.0	4639.3	4635.1	4497.3	4116.5
57.5°	4729.8	4686.7	4768.5	5059.0	5739.0	5485.1	5229.0	5190.3	5069.7	4725.5	4402.7
60°	4529.7	4551.2	4749.2	5192.4	6014.4	5797.1	5683.0	5642.1	5364.5	4919.2	4721.2
62.5°	4118.6	4170.3	4540.4	5205.3	5913.3	5924.0	5934.9	5906.9	5592.7	5095.7	5041.8
65°	3632.4	3647.4	4092.9	5026.7	5736.8	5885.4	6119.8	6117.8	5766.9	5293.6	5403.3
67.5°	2993.2	3019.1	3404.2	4424.2	5384.0	5868.1	6363.0	6356.6	5964.9	5519.4	5618.4
70°	2227.1	2259.5	2571.4	3440.8	4596.3	5653.0	6681.5	6685.8	6173.7	5691.7	5470.1
71°	1736.5	1794.7	2121.7	2922.2	4193.9	5435.5	6711.6	6750.4	6197.3	5668.0	5164.4
72.5°	852.1	920.9	1332.0	2057.2	3451.6	4949.2	6513.7	6589.0	6048.8	5373.2	4415.6
75°	221.7	234.6	398.1	841.4	1850.7	3279.4	5252.6	5444.2	4945.0	4090.6	2698.3
77.5°	139.9	144.2	187.2	327.1	692.9	1245.9	3085.8	3180.4	2825.3	2072.2	951.1
80°	99.0	101.2	118.3	210.9	404.6	363.7	1110.4	1151.3	1022.1	548.7	170.0
82.5°	60.2	60.2	86.1	135.6	249.6	198.0	292.7	312.1	275.5	152.8	55.9
85°	34.4	36.6	53.7	92.6	118.3	96.8	109.7	116.3	118.3	101.2	23.7
87.5°	28.0	30.1	47.3	77.5	64.6	47.3	47.3	49.5	51.7	60.2	10.7
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°	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7	1043.7
2.5°	1039.4	1039.4	1041.5	1039.4	1039.4	1039.4	1041.5	1041.5	1041.5	1045.8	1047.9
5°	1043.7	1043.7	1043.7	1041.5	1039.4	1039.4	1043.7	1045.8	1045.8	1052.2	1052.2
7.5°	1054.5	1054.5	1050.1	1045.8	1041.5	1035.0	1037.2	1039.4	1037.2	1039.4	1039.4
10°	1078.1	1078.1	1071.7	1063.0	1050.1	1030.8	1004.9	972.6	942.5	931.8	927.5
12.5°	1116.8	1114.7	1101.8	1086.7	1058.7	992.0	895.2	781.1	686.4	660.6	652.1
15°	1159.9	1155.5	1140.4	1114.7	1039.4	862.9	660.6	514.3	423.9	402.4	398.1
17.5°	1205.0	1198.6	1177.0	1125.4	951.1	641.3	426.1	322.8	273.2	269.0	271.2
20°	1252.3	1243.8	1213.7	1103.8	768.2	428.2	275.5	249.6	245.3	245.3	247.5
22.5°	1306.2	1295.4	1254.6	1026.4	559.5	284.1	236.6	234.6	232.4	230.2	230.2
25°	1368.6	1355.7	1293.3	886.5	385.1	232.4	225.9	219.5	215.1	210.9	208.6
27.5°	1443.9	1426.7	1323.3	714.4	264.6	217.3	213.0	202.2	193.7	185.0	185.0
30°	1519.2	1497.7	1314.8	538.0	215.1	202.2	193.7	180.8	167.8	159.2	157.2
32.5°	1598.8	1577.2	1258.8	361.5	195.8	185.0	174.3	154.9	139.9	129.2	127.0
35°	1717.2	1700.0	1149.1	238.8	176.5	163.6	148.5	129.2	109.7	99.0	96.8
37.5°	1893.7	1872.1	1013.5	182.9	154.9	135.6	122.7	101.2	81.7	71.0	68.9
40°	2130.3	2065.8	852.1	161.3	135.6	111.9	94.7	73.2	58.1	51.7	51.7
42.5°	2405.8	2253.0	677.9	146.3	120.5	92.6	68.9	49.5	40.9	38.8	38.8
45°	2698.3	2427.3	503.5	135.6	105.4	73.2	49.5	34.4	30.1	28.0	28.0
47.5°	2999.7	2569.3	350.7	122.7	88.2	55.9	34.4	25.7	21.6	19.3	19.3
50°	3281.6	2661.9	247.5	109.7	75.3	40.9	25.7	19.3	15.1	15.1	15.1
52.5°	3477.4	2653.3	178.6	94.7	58.1	28.0	17.3	12.9	12.9	12.9	12.9
55°	3649.6	2620.9	139.9	81.7	45.3	19.3	12.9	10.7	10.7	8.6	8.6
57.5°	3795.8	2569.3	118.3	66.7	32.2	15.1	8.6	8.6	6.4	6.4	6.4
60°	3920.7	2504.8	99.0	55.9	21.6	10.7	6.4	4.3	4.3	2.1	4.3
62.5°	4090.6	2463.9	86.1	43.0	15.1	6.4	4.3	2.1	2.1	0.0	0.0
65°	4215.4	2386.4	73.2	30.1	8.6	4.3	2.1	2.1	0.0	0.0	0.0
67.5°	4219.8	2246.6	53.7	17.3	6.4	4.3	2.1	0.0	0.0	0.0	0.0
70°	3879.8	1915.1	34.4	8.6	4.3	2.1	2.1	0.0	0.0	0.0	0.0
71°	3567.8	1695.7	28.0	6.4	4.3	2.1	0.0	0.0	0.0	0.0	0.0
72.5°	2939.4	1245.9	21.6	6.4	2.1	2.1	0.0	0.0	0.0	0.0	0.0
75°	1620.4	451.9	10.7	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	518.6	137.6	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	88.2	21.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.1	8.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.1	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)