

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: P572740

Luminaire Tested: **ARCH-S-PA2-110-730-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572740
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-PA2-110-730-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1105mA 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: 10039 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

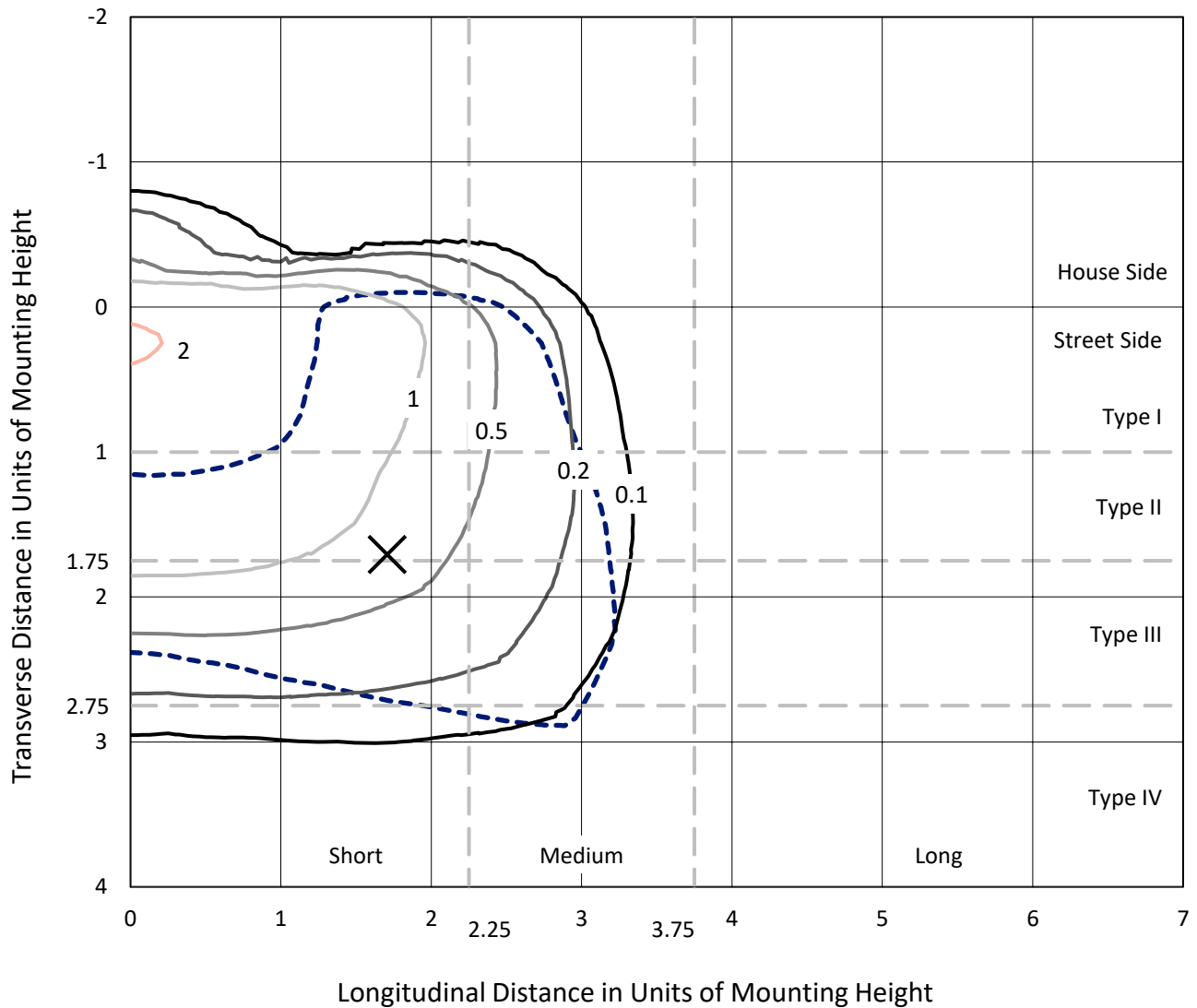
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

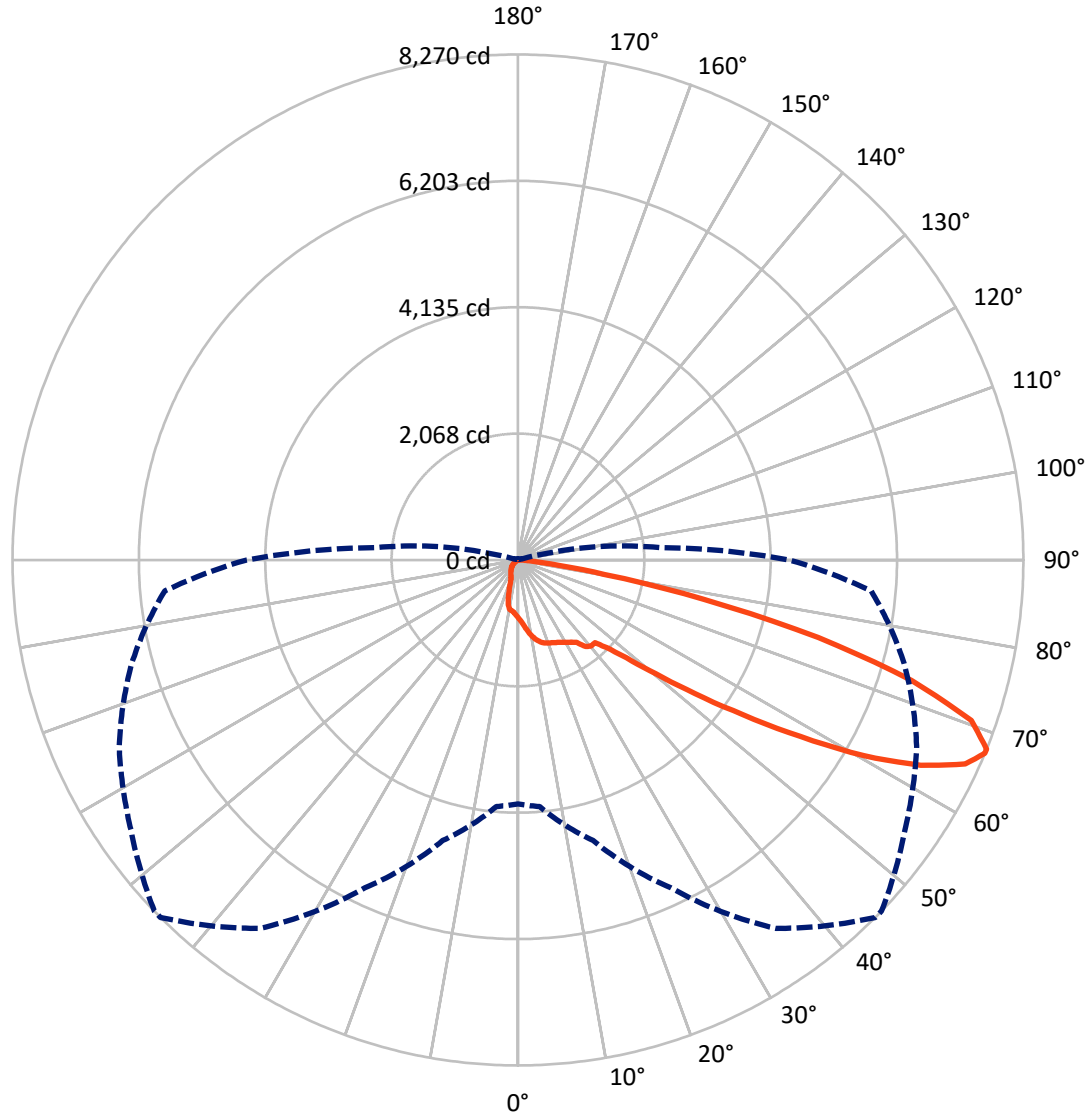
✕ Max cd
 - - - 1/2 Max cd



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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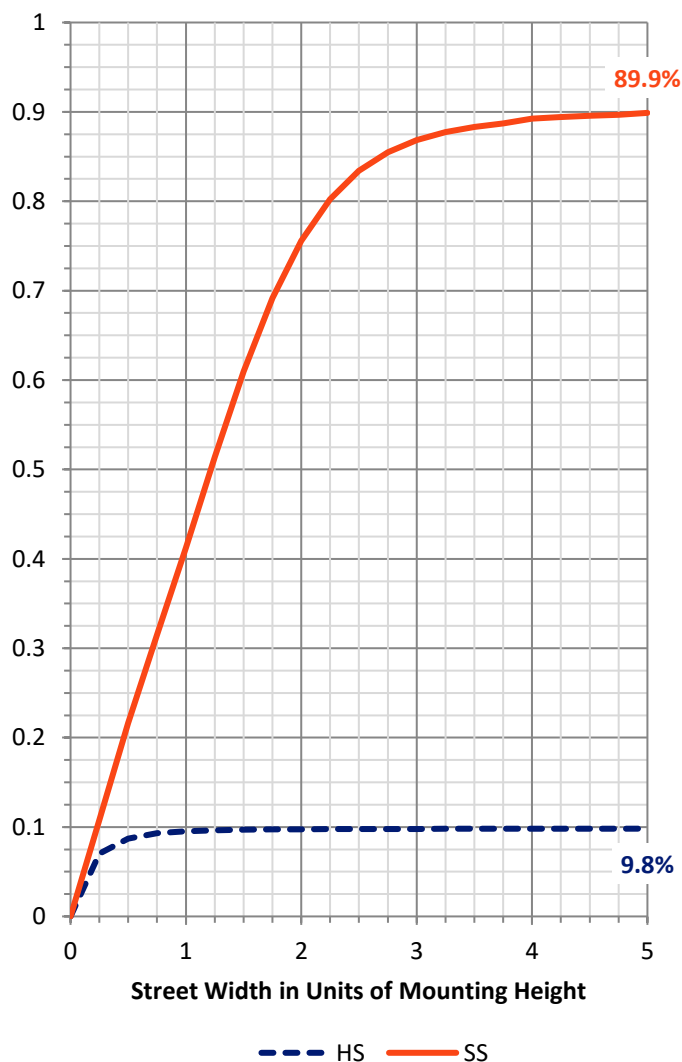
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	994.7	0.0	994.7
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	9044.3	0.0	9044.3
	% Fixture	90.1	0.0	90.1
Total	Lumens	10039.0	0.0	10039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	0.9
10°-20°	288.1	2.9
20°-30°	460.8	4.6
30°-40°	663.2	6.6
40°-50°	1163.5	11.6
50°-60°	2451.5	24.4
60°-70°	3390.1	33.8
70°-80°	1419.2	14.1
80°-90°	107.3	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°	10039.0	100.0
0°-180°	10039.0	100.0

Coefficient of Utilization



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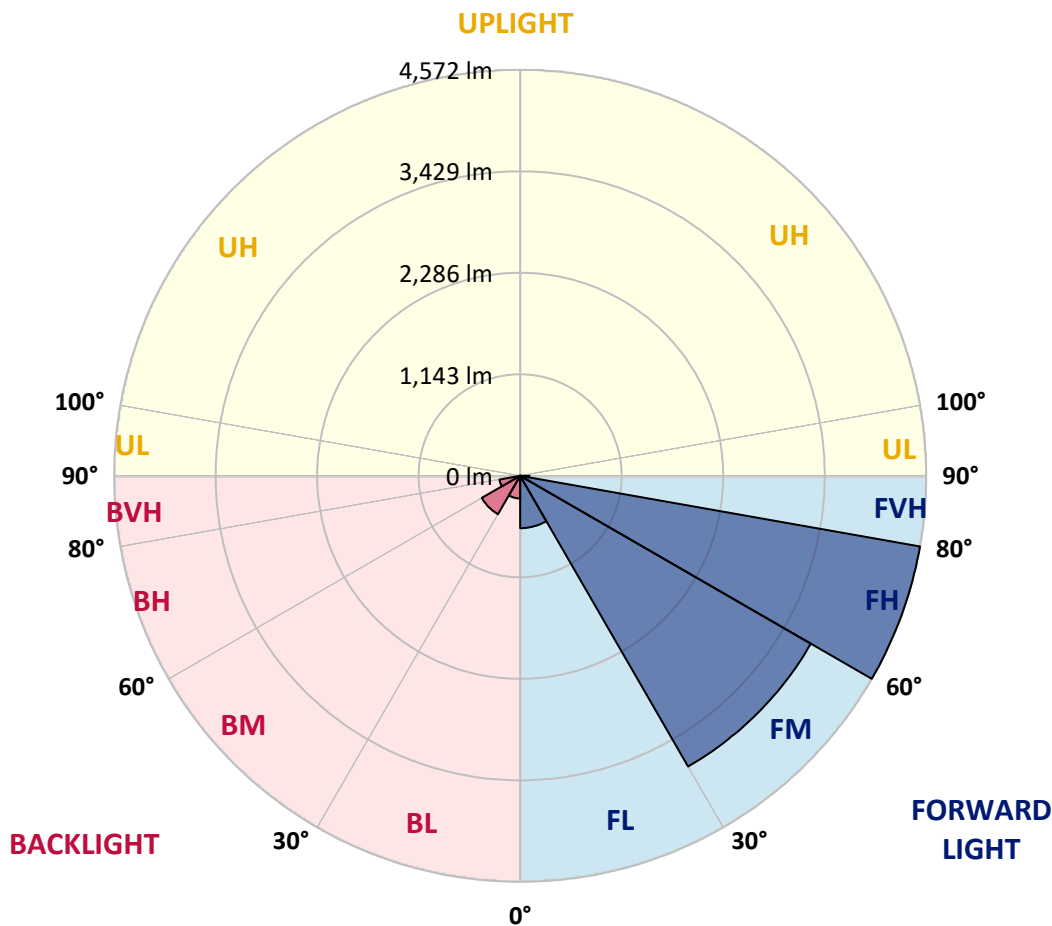
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	589.2	5.9			
FM (30°-60°)	3779.8	37.7			
FH (60°-80°)	4571.5	45.5			G2/5000
FVH (80°-90°)	103.7	1.0			G2/225
BL (0°-30°)	254.9	2.5	B1/500		
BM (30°-60°)	498.4	5.0	B1/1000		
BH (60°-80°)	237.8	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°	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4
2.5°	1057.0	1038.4	1034.7	1031.0	1019.9	1005.0	1008.8	997.6	979.1	968.0	956.8
5°	1186.8	1168.2	1160.8	1138.6	1116.3	1082.9	1082.9	1053.3	1019.9	990.2	960.5
7.5°	1320.3	1305.5	1290.6	1257.2	1223.9	1179.4	1175.6	1131.1	1079.2	1034.7	986.5
10°	1431.5	1420.4	1401.9	1361.1	1316.6	1268.4	1257.2	1216.4	1149.7	1090.3	1027.3
12.5°	1520.6	1509.4	1483.5	1442.7	1387.0	1338.8	1335.1	1283.2	1216.4	1153.4	1075.5
15°	1587.3	1568.8	1539.1	1494.6	1439.0	1394.5	1387.0	1342.5	1279.5	1209.0	1116.3
17.5°	1598.4	1587.3	1561.3	1513.1	1464.9	1427.8	1424.1	1390.8	1335.1	1260.9	1164.5
20°	1568.8	1565.1	1542.8	1505.7	1468.6	1450.1	1446.4	1424.1	1379.6	1312.9	1216.4
22.5°	1524.3	1520.6	1505.7	1487.2	1472.3	1468.6	1468.6	1461.2	1435.3	1372.2	1283.2
25°	1494.6	1490.9	1483.5	1472.3	1472.3	1494.6	1498.3	1505.7	1483.5	1435.3	1338.8
27.5°	1498.3	1490.9	1483.5	1472.3	1487.2	1528.0	1531.7	1550.2	1531.7	1487.2	1401.9
30°	1550.2	1539.1	1516.8	1490.9	1509.4	1565.1	1568.8	1591.0	1576.2	1553.9	1472.3
32.5°	1631.8	1624.4	1579.9	1535.4	1546.5	1602.1	1609.6	1650.4	1668.9	1635.5	1535.4
35°	1750.5	1724.5	1668.9	1624.4	1617.0	1657.8	1668.9	1735.7	1783.9	1702.3	1572.5
37.5°	1846.9	1824.7	1735.7	1665.2	1706.0	1798.7	1802.4	1884.0	1843.2	1709.7	1631.8
40°	2173.3	2169.6	2013.8	1791.3	1746.8	1850.6	1865.5	1880.3	1861.8	1795.0	1761.6
42.5°	2699.9	2655.4	2481.1	2139.9	1835.8	1846.9	1854.3	1932.2	2028.6	1999.0	2010.1
45°	3271.0	3234.0	3037.4	2607.2	2139.9	2047.2	2054.6	2180.7	2366.1	2403.2	2462.6
47.5°	3797.7	3738.3	3627.1	3193.2	2659.1	2388.4	2403.2	2555.3	2863.1	2944.7	3037.4
50°	4242.7	4201.9	4098.1	3812.5	3297.0	2926.1	2941.0	3067.1	3467.6	3597.4	3716.1
52.5°	4888.0	4832.4	4632.1	4498.6	4109.2	3627.1	3593.7	3727.2	4187.1	4272.4	4431.9
55°	5481.4	5366.4	5247.8	5192.1	5029.0	4465.2	4454.1	4480.1	4862.1	4906.6	5192.1
57.5°	5733.6	5711.3	5811.5	5996.9	6034.0	5451.7	5403.5	5303.4	5603.8	5600.1	5933.9
60°	5893.1	5893.1	6160.1	6620.0	6916.7	6505.0	6438.2	6126.7	6234.3	6238.0	6545.8
62.5°	5792.9	5818.9	6234.3	6927.8	7524.9	7398.8	7354.3	6831.4	6824.0	6738.7	6846.2
65°	5173.6	5218.1	5885.7	6757.2	7747.4	8044.1	8025.6	7432.2	7217.1	6905.5	6664.5
67°	4220.5	4302.1	5110.5	6141.6	7495.2	8266.6	8270.3	7691.8	7220.8	6627.4	6022.9
67.5°	3990.5	4049.9	4750.8	5919.0	7358.0	8270.3	8270.3	7725.2	7198.5	6542.1	5800.4
70°	2544.1	2559.0	3323.0	4580.2	6286.2	7869.8	7899.5	7473.0	6556.9	5296.0	4072.1
72.5°	1257.2	1223.9	1754.2	2948.4	4717.4	6734.9	6812.8	6382.6	5188.4	3460.2	2151.0
75°	493.3	526.6	764.0	1568.8	2955.8	5077.2	5136.5	4643.3	3337.8	1783.9	849.3
77.5°	218.8	218.8	326.4	704.6	1553.9	3115.3	3145.0	2833.4	1761.6	734.3	259.6
80°	118.7	126.1	170.6	307.8	782.5	1431.5	1561.3	1405.6	797.4	322.7	89.0
82.5°	59.3	63.0	103.8	174.3	393.1	541.5	571.1	597.1	367.2	200.3	37.1
85°	22.3	26.0	55.6	100.1	178.0	181.7	181.7	233.6	200.3	152.1	18.5
87.5°	3.7	7.4	26.0	40.8	70.5	63.0	55.6	74.2	111.3	96.4	11.1
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°	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4
2.5°	949.4	942.0	927.2	916.0	908.6	901.2	893.8	893.8	890.1	890.1	893.8
5°	949.4	934.6	904.9	886.4	871.5	860.4	853.0	853.0	849.3	853.0	856.7
7.5°	968.0	945.7	904.9	871.5	853.0	834.5	827.0	823.3	823.3	827.0	823.3
10°	997.6	968.0	916.0	871.5	845.6	819.6	778.8	741.7	708.4	693.5	689.8
12.5°	1034.7	997.6	934.6	882.7	841.9	752.9	641.6	571.1	526.6	504.4	497.0
15°	1075.5	1031.0	956.8	897.5	786.2	619.3	474.7	396.8	370.9	374.6	378.3
17.5°	1120.0	1071.8	990.2	890.1	675.0	459.9	348.6	330.1	341.2	352.3	352.3
20°	1164.5	1112.6	1023.6	834.5	530.3	341.2	311.5	315.2	326.4	337.5	337.5
22.5°	1223.9	1168.2	1057.0	738.0	393.1	296.7	296.7	304.1	311.5	322.7	322.7
25°	1286.9	1231.3	1079.2	619.3	293.0	278.2	281.9	289.3	296.7	307.8	307.8
27.5°	1353.7	1298.0	1075.5	478.4	255.9	255.9	259.6	270.7	278.2	289.3	289.3
30°	1427.8	1379.6	1034.7	348.6	237.4	233.6	233.6	244.8	255.9	263.3	267.0
32.5°	1490.9	1450.1	964.3	263.3	222.5	215.1	211.4	215.1	226.2	233.6	237.4
35°	1542.8	1528.0	860.4	226.2	207.7	196.6	189.1	185.4	189.1	189.1	192.9
37.5°	1639.2	1642.9	738.0	211.4	196.6	181.7	166.9	155.8	148.3	144.6	140.9
40°	1821.0	1817.2	608.2	200.3	185.4	166.9	144.6	129.8	111.3	103.8	103.8
42.5°	2076.9	2021.2	463.6	189.1	174.3	152.1	122.4	100.1	81.6	77.9	77.9
45°	2536.7	2306.8	348.6	181.7	163.2	133.5	100.1	74.2	63.0	59.3	59.3
47.5°	3044.8	2636.9	278.2	170.6	152.1	118.7	77.9	59.3	48.2	48.2	48.2
50°	3604.8	2952.1	233.6	159.5	133.5	100.1	63.0	48.2	44.5	40.8	44.5
52.5°	4216.8	3200.6	204.0	144.6	115.0	81.6	51.9	44.5	37.1	37.1	37.1
55°	4765.6	3367.5	170.6	126.1	96.4	66.8	48.2	37.1	33.4	29.7	26.0
57.5°	5262.6	3456.5	137.2	107.6	74.2	55.6	40.8	29.7	26.0	18.5	18.5
60°	5518.5	3374.9	107.6	85.3	59.3	44.5	33.4	26.0	18.5	11.1	11.1
62.5°	5559.3	3163.5	85.3	66.8	51.9	37.1	26.0	18.5	11.1	7.4	7.4
65°	5203.3	2792.6	70.5	55.6	40.8	29.7	22.3	14.8	7.4	3.7	3.7
67°	4565.4	2403.2	63.0	48.2	37.1	26.0	18.5	11.1	7.4	3.7	0.0
67.5°	4439.3	2332.8	59.3	48.2	37.1	26.0	18.5	11.1	7.4	3.7	0.0
70°	2915.0	1613.3	55.6	44.5	33.4	22.3	14.8	11.1	3.7	0.0	0.0
72.5°	1591.0	812.2	51.9	40.8	29.7	22.3	14.8	7.4	3.7	0.0	0.0
75°	582.3	307.8	44.5	37.1	26.0	22.3	14.8	7.4	3.7	0.0	0.0
77.5°	196.6	107.6	40.8	37.1	29.7	22.3	14.8	7.4	3.7	0.0	0.0
80°	66.8	48.2	33.4	29.7	22.3	18.5	14.8	7.4	3.7	0.0	0.0
82.5°	26.0	14.8	11.1	11.1	11.1	14.8	14.8	11.1	3.7	0.0	0.0
85°	11.1	7.4	3.7	3.7	3.7	3.7	3.7	3.7	3.7	0.0	0.0
87.5°	11.1	7.4	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)