

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: P572902

Luminaire Tested: **ARCH-S-PA2-130-730-U-T4W-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572902
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-PA2-130-730-U-T4W-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 10822 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

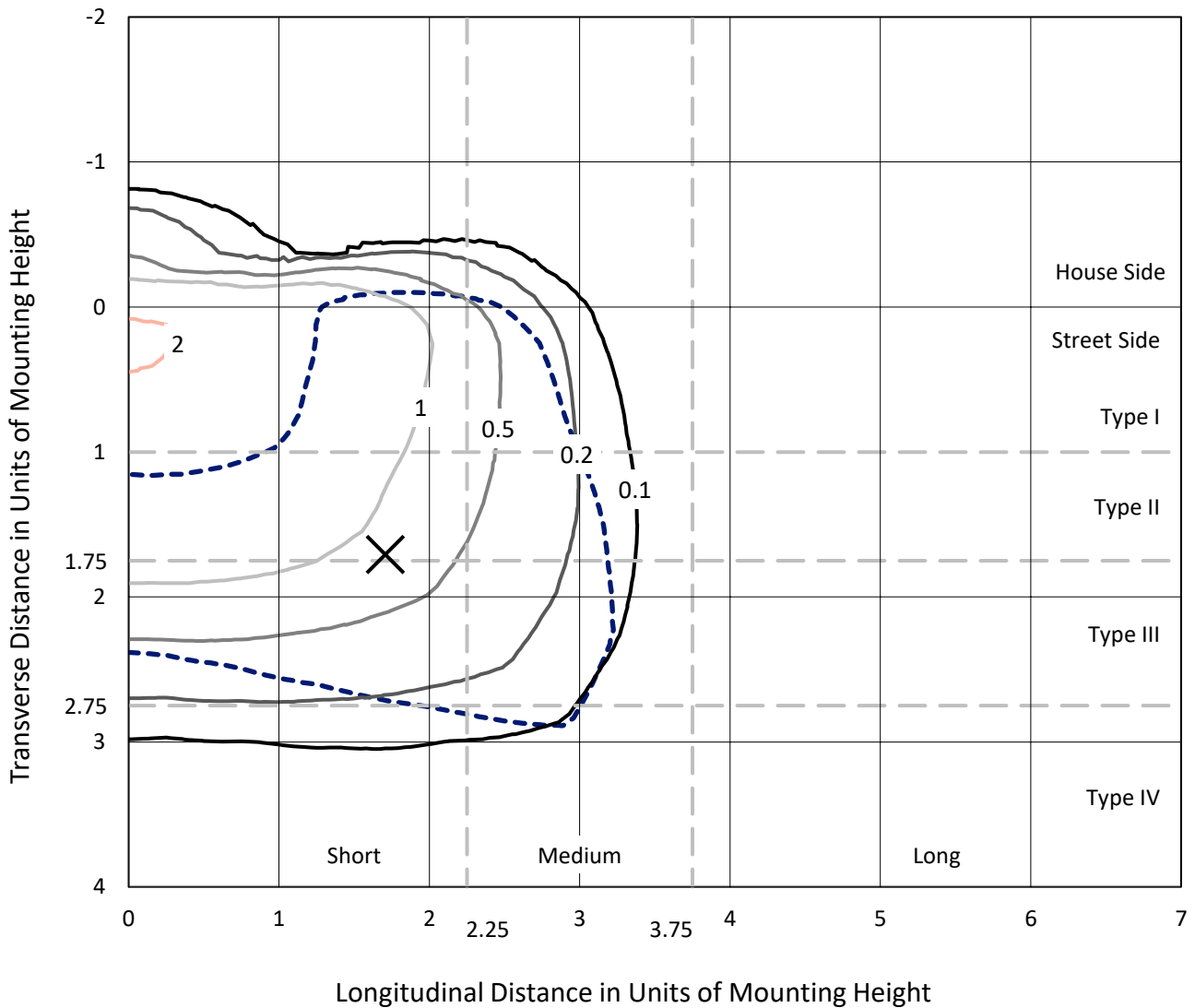
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

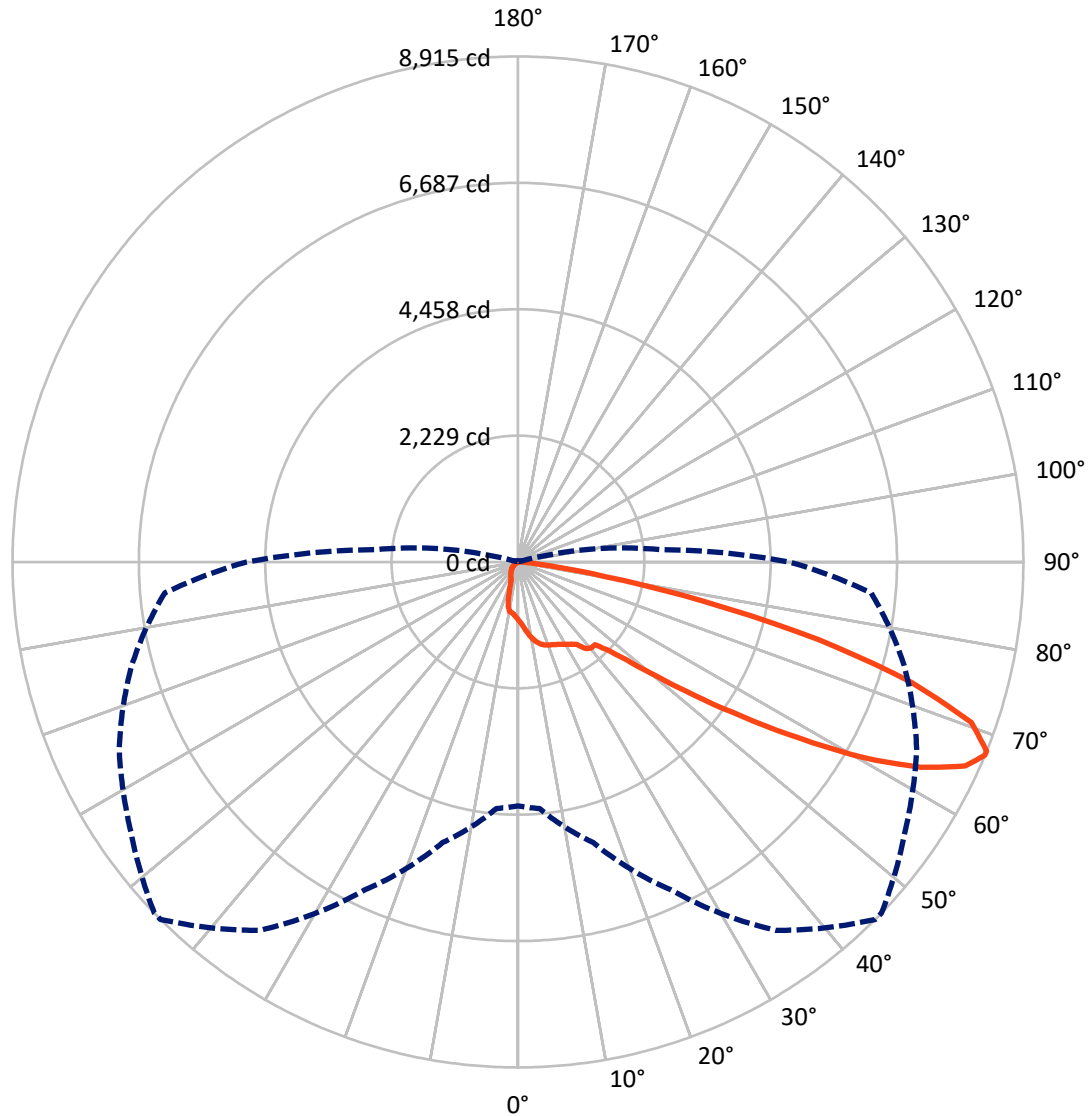
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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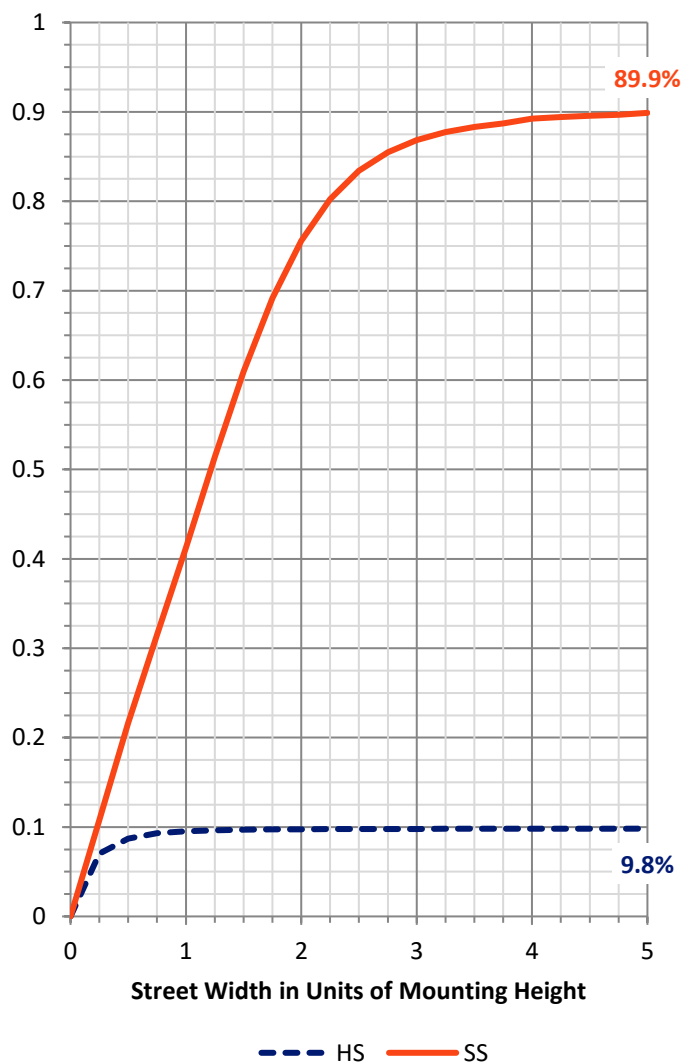
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1072.3	0.0	1072.3
	% Fixture	9.9	0.0	9.9
Street Side	Lumens	9749.7	0.0	9749.7
	% Fixture	90.1	0.0	90.1
Total	Lumens	10822.0	0.0	10822.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	0.9
10°-20°	310.5	2.9
20°-30°	496.7	4.6
30°-40°	714.9	6.6
40°-50°	1254.2	11.6
50°-60°	2642.7	24.4
60°-70°	3654.5	33.8
70°-80°	1529.9	14.1
80°-90°	115.7	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°	10822.0	100.0
0°-180°	10822.0	100.0

Coefficient of Utilization



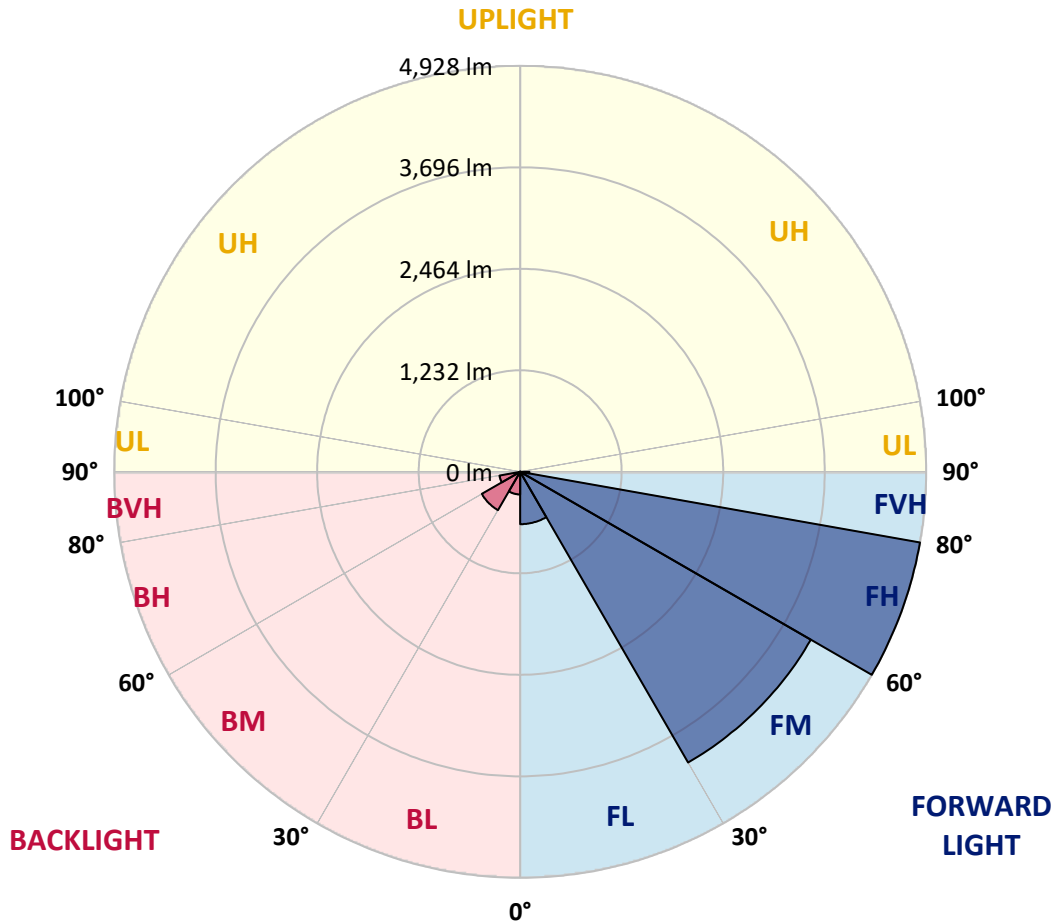
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	635.2	5.9			
FM (30°-60°)	4074.6	37.7			
FH (60°-80°)	4928.1	45.5			G2/5000
FVH (80°-90°)	111.8	1.0			G2/225
BL (0°-30°)	274.8	2.5	B1/500		
BM (30°-60°)	537.3	5.0	B1/1000		
BH (60°-80°)	256.3	2.4	B1/500		G1/500
BVH (80°-90°)	3.9	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5
2.5°	1139.4	1119.4	1115.4	1111.4	1099.4	1083.4	1087.4	1075.4	1055.5	1043.5	1031.5
5°	1279.3	1259.3	1251.4	1227.4	1203.4	1167.4	1167.4	1135.4	1099.4	1067.4	1035.5
7.5°	1423.3	1407.3	1391.3	1355.3	1319.3	1271.3	1267.3	1219.4	1163.4	1115.4	1063.4
10°	1543.2	1531.2	1511.2	1467.2	1419.3	1367.3	1355.3	1311.3	1239.4	1175.4	1107.4
12.5°	1639.2	1627.2	1599.2	1555.2	1495.2	1443.3	1439.3	1383.3	1311.3	1243.4	1159.4
15°	1711.1	1691.1	1659.1	1611.2	1551.2	1503.2	1495.2	1447.3	1379.3	1303.3	1203.4
17.5°	1723.1	1711.1	1683.1	1631.2	1579.2	1539.2	1535.2	1499.2	1439.3	1359.3	1255.3
20°	1691.1	1687.1	1663.1	1623.2	1583.2	1563.2	1559.2	1535.2	1487.2	1415.3	1311.3
22.5°	1643.1	1639.2	1623.2	1603.2	1587.2	1583.2	1583.2	1575.2	1547.2	1479.2	1383.3
25°	1611.2	1607.2	1599.2	1587.2	1587.2	1611.2	1615.2	1623.2	1599.2	1547.2	1443.3
27.5°	1615.2	1607.2	1599.2	1587.2	1603.2	1647.1	1651.1	1671.1	1651.1	1603.2	1511.2
30°	1671.1	1659.1	1635.2	1607.2	1627.2	1687.1	1691.1	1715.1	1699.1	1675.1	1587.2
32.5°	1759.1	1751.1	1703.1	1655.1	1667.1	1727.1	1735.1	1779.1	1799.1	1763.1	1655.1
35°	1887.0	1859.0	1799.1	1751.1	1743.1	1787.1	1799.1	1871.0	1923.0	1835.0	1695.1
37.5°	1991.0	1967.0	1871.0	1795.1	1839.0	1939.0	1943.0	2030.9	1987.0	1843.0	1759.1
40°	2342.8	2338.8	2170.9	1931.0	1883.0	1995.0	2011.0	2027.0	2007.0	1935.0	1899.0
42.5°	2910.5	2862.5	2674.6	2306.8	1979.0	1991.0	1999.0	2082.9	2186.9	2154.9	2166.9
45°	3526.2	3486.2	3274.3	2810.5	2306.8	2206.9	2214.9	2350.8	2550.7	2590.7	2654.6
47.5°	4093.9	4029.9	3910.0	3442.2	2866.5	2574.7	2590.7	2754.6	3086.4	3174.4	3274.3
50°	4573.6	4529.7	4417.7	4109.9	3554.2	3154.4	3170.4	3306.3	3738.1	3878.0	4005.9
52.5°	5269.3	5209.3	4993.4	4849.5	4429.7	3910.0	3874.0	4017.9	4513.7	4605.6	4777.5
55°	5908.9	5785.0	5657.1	5597.1	5421.2	4813.5	4801.5	4829.5	5241.3	5289.3	5597.1
57.5°	6180.8	6156.8	6264.8	6464.7	6504.6	5877.0	5825.0	5717.0	6040.9	6036.9	6396.7
60°	6352.7	6352.7	6640.6	7136.3	7456.1	7012.4	6940.4	6604.6	6720.5	6724.5	7056.3
62.5°	6244.8	6272.8	6720.5	7468.1	8111.8	7975.9	7927.9	7364.2	7356.2	7264.2	7380.2
65°	5577.1	5625.1	6344.7	7284.2	8351.7	8671.5	8651.5	8011.9	7780.0	7444.1	7184.3
67°	4549.6	4637.6	5509.1	6620.6	8079.8	8911.4	8915.4	8291.7	7784.0	7144.3	6492.6
67.5°	4301.8	4365.7	5121.3	6380.7	7931.9	8915.4	8915.4	8327.7	7760.0	7052.3	6252.8
70°	2742.6	2758.6	3582.1	4937.4	6776.5	8483.6	8515.6	8055.8	7068.3	5709.0	4389.7
72.5°	1355.3	1319.3	1891.0	3178.4	5085.4	7260.2	7344.2	6880.4	5593.1	3730.1	2318.8
75°	531.7	567.7	823.6	1691.1	3186.3	5473.2	5537.1	5005.4	3598.1	1923.0	915.5
77.5°	235.9	235.9	351.8	759.6	1675.1	3358.3	3390.2	3054.4	1899.0	791.6	279.9
80°	127.9	135.9	183.9	331.8	843.6	1543.2	1683.1	1515.2	859.6	347.8	96.0
82.5°	64.0	68.0	111.9	187.9	423.8	583.7	615.7	643.7	395.8	215.9	40.0
85°	24.0	28.0	60.0	107.9	191.9	195.9	195.9	251.9	215.9	163.9	20.0
87.5°	4.0	8.0	28.0	44.0	76.0	68.0	60.0	80.0	119.9	103.9	12.0
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°	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5	1023.5
2.5°	1023.5	1015.5	999.5	987.5	979.5	971.5	963.5	963.5	959.5	959.5	963.5
5°	1023.5	1007.5	975.5	955.5	939.5	927.5	919.5	919.5	915.5	919.5	923.5
7.5°	1043.5	1019.5	975.5	939.5	919.5	899.5	891.5	887.5	887.5	891.5	887.5
10°	1075.4	1043.5	987.5	939.5	911.5	883.5	839.6	799.6	763.6	747.6	743.6
12.5°	1115.4	1075.4	1007.5	951.5	907.5	811.6	691.6	615.7	567.7	543.7	535.7
15°	1159.4	1111.4	1031.5	967.5	847.6	667.7	511.7	427.8	399.8	403.8	407.8
17.5°	1207.4	1155.4	1067.4	959.5	727.6	495.7	375.8	355.8	367.8	379.8	379.8
20°	1255.3	1199.4	1103.4	899.5	571.7	367.8	335.8	339.8	351.8	363.8	363.8
22.5°	1319.3	1259.3	1139.4	795.6	423.8	319.8	319.8	327.8	335.8	347.8	347.8
25°	1387.3	1327.3	1163.4	667.7	315.8	299.8	303.8	311.8	319.8	331.8	331.8
27.5°	1459.2	1399.3	1159.4	515.7	275.9	275.9	279.9	291.8	299.8	311.8	311.8
30°	1539.2	1487.2	1115.4	375.8	255.9	251.9	251.9	263.9	275.9	283.9	287.9
32.5°	1607.2	1563.2	1039.5	283.9	239.9	231.9	227.9	231.9	243.9	251.9	255.9
35°	1663.1	1647.1	927.5	243.9	223.9	211.9	203.9	199.9	203.9	203.9	207.9
37.5°	1767.1	1771.1	795.6	227.9	211.9	195.9	179.9	167.9	159.9	155.9	151.9
40°	1963.0	1959.0	655.7	215.9	199.9	179.9	155.9	139.9	119.9	111.9	111.9
42.5°	2238.8	2178.9	499.7	203.9	187.9	163.9	131.9	107.9	88.0	84.0	84.0
45°	2734.6	2486.7	375.8	195.9	175.9	143.9	107.9	80.0	68.0	64.0	64.0
47.5°	3282.3	2842.5	299.8	183.9	163.9	127.9	84.0	64.0	52.0	52.0	52.0
50°	3886.0	3182.4	251.9	171.9	143.9	107.9	68.0	52.0	48.0	44.0	48.0
52.5°	4545.6	3450.2	219.9	155.9	123.9	88.0	56.0	48.0	40.0	40.0	40.0
55°	5137.3	3630.1	183.9	135.9	103.9	72.0	52.0	40.0	36.0	32.0	28.0
57.5°	5673.1	3726.1	147.9	115.9	80.0	60.0	44.0	32.0	28.0	20.0	20.0
60°	5948.9	3638.1	115.9	92.0	64.0	48.0	36.0	28.0	20.0	12.0	12.0
62.5°	5992.9	3410.2	92.0	72.0	56.0	40.0	28.0	20.0	12.0	8.0	8.0
65°	5609.1	3010.4	76.0	60.0	44.0	32.0	24.0	16.0	8.0	4.0	4.0
67°	4921.5	2590.7	68.0	52.0	40.0	28.0	20.0	12.0	8.0	4.0	0.0
67.5°	4785.5	2514.7	64.0	52.0	40.0	28.0	20.0	12.0	8.0	4.0	0.0
70°	3142.4	1739.1	60.0	48.0	36.0	24.0	16.0	12.0	4.0	0.0	0.0
72.5°	1715.1	875.5	56.0	44.0	32.0	24.0	16.0	8.0	4.0	0.0	0.0
75°	627.7	331.8	48.0	40.0	28.0	24.0	16.0	8.0	4.0	0.0	0.0
77.5°	211.9	115.9	44.0	40.0	32.0	24.0	16.0	8.0	4.0	0.0	0.0
80°	72.0	52.0	36.0	32.0	24.0	20.0	16.0	8.0	4.0	0.0	0.0
82.5°	28.0	16.0	12.0	12.0	12.0	16.0	16.0	12.0	4.0	0.0	0.0
85°	12.0	8.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	0.0	0.0
87.5°	12.0	8.0	4.0	4.0	4.0	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)