

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: P572711

Luminaire Tested: **ARCH-S-PA2-100-830-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-100-830-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8223 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

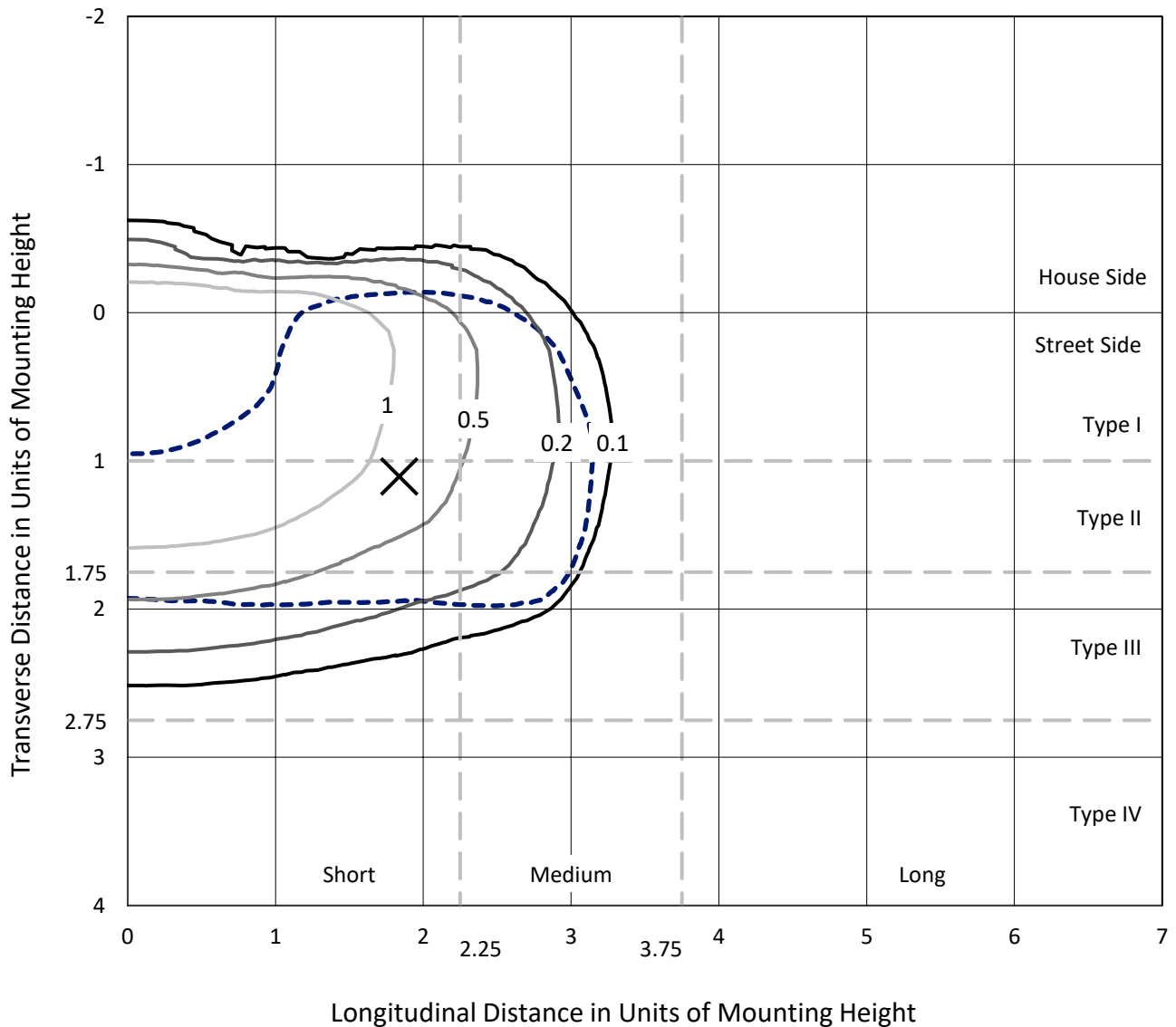
Input Watts (W): 103.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572711
 CATALOG NUMBER: ARCH-S-PA2-100-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

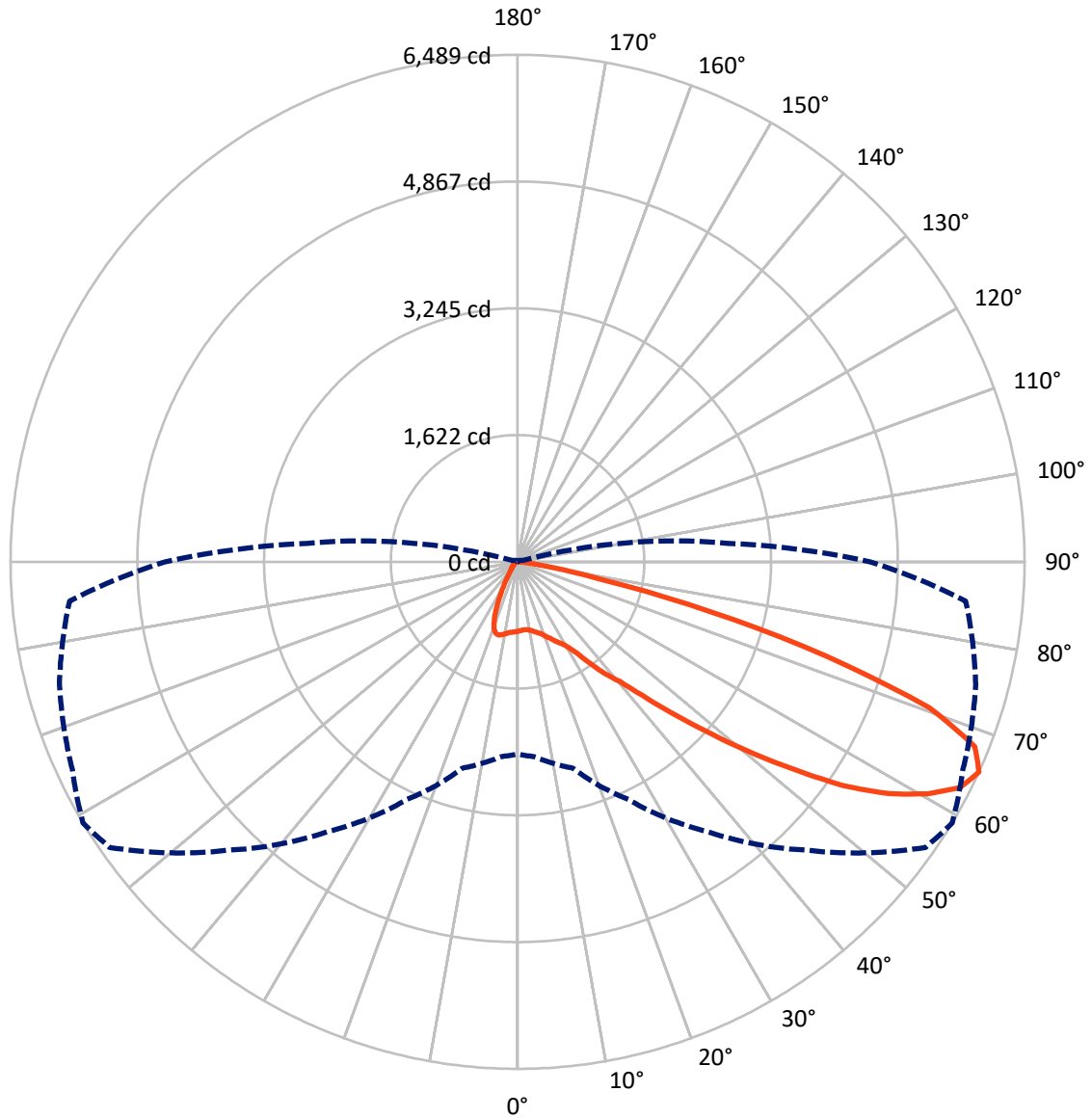
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

REPORT NUMBER: P572711
CATALOG NUMBER: ARCH-S-PA2-100-830-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P572711
 CATALOG NUMBER: ARCH-S-PA2-100-830-U-T3-HSS

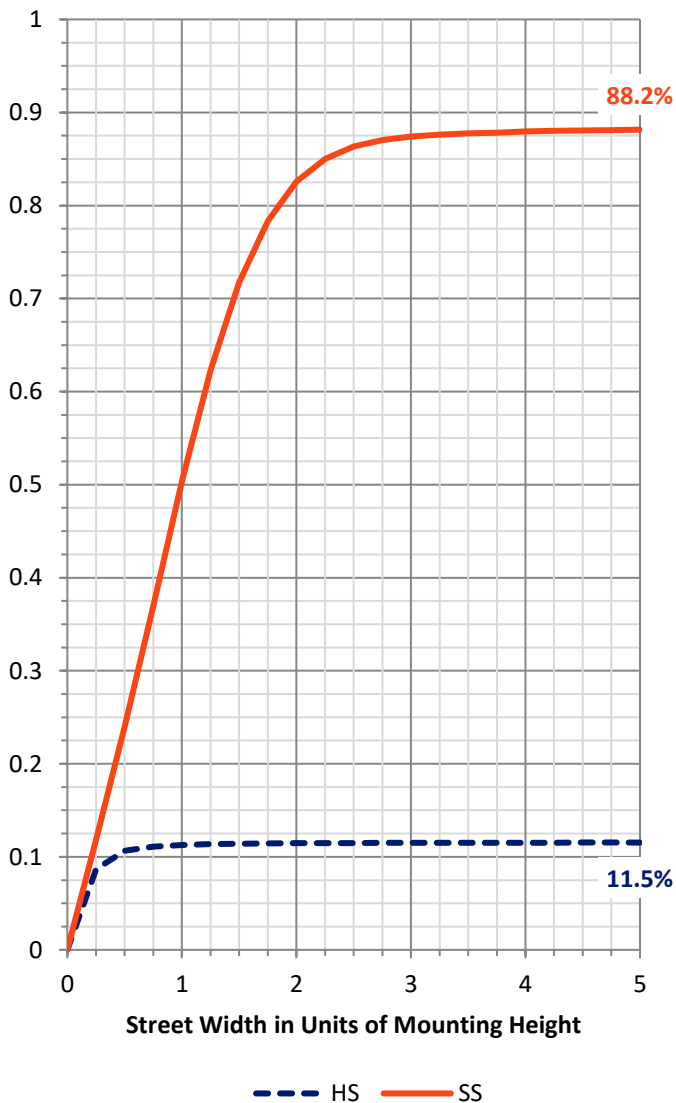
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	959.3	0.0	959.3
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	7263.7	0.0	7263.7
	% Fixture	88.3	0.0	88.3
Total	Lumens	8223.0	0.0	8223.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	1.0
10°-20°	238.6	2.9
20°-30°	405.2	4.9
30°-40°	717.7	8.7
40°-50°	1353.8	16.5
50°-60°	2290.6	27.9
60°-70°	2381.5	29.0
70°-80°	714.2	8.7
80°-90°	37.4	0.5
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°	8223.0	100.0
0°-180°	8223.0	100.0

Coefficient of Utilization

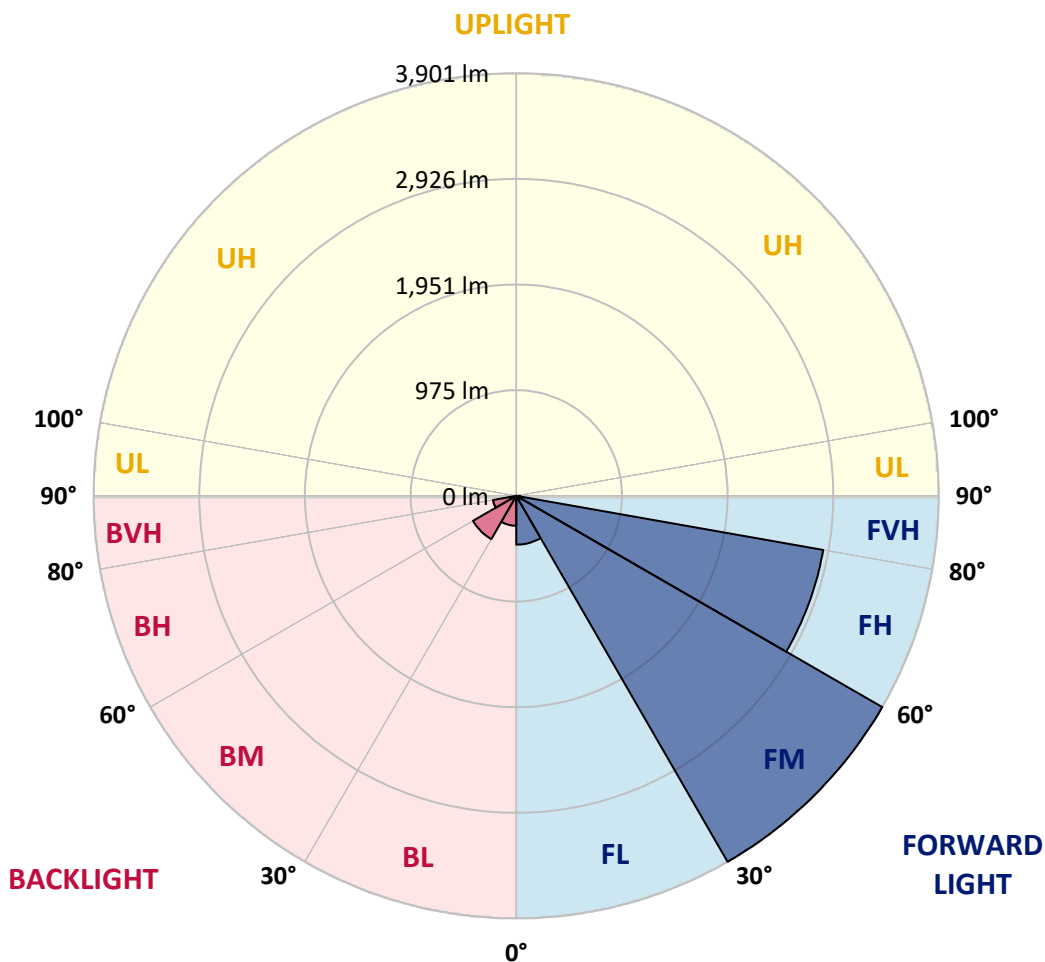


REPORT NUMBER: P572711
 CATALOG NUMBER: ARCH-S-PA2-100-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.9	5.5			
FM (30°-60°)	3901.0	47.4			
FH (60°-80°)	2877.4	35.0			G2/5000
FVH (80°-90°)	34.3	0.4			G1/100
BL (0°-30°)	276.7	3.4	B1/500		
BM (30°-60°)	461.2	5.6	B1/1000		
BH (60°-80°)	218.3	2.7	B1/500		G1/500
BVH (80°-90°)	3.2	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





REPORT NUMBER: P572711

CATALOG NUMBER: ARCH-S-PA2-100-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6
2.5°	864.6	861.7	861.7	867.6	870.6	873.6	879.6	879.6	879.6	885.6	888.6
5°	822.8	822.8	825.7	831.7	843.7	852.7	870.6	873.6	876.6	891.6	897.6
7.5°	795.8	795.8	798.8	810.8	825.7	846.7	870.6	876.6	885.6	906.5	921.5
10°	792.8	789.8	795.8	807.8	825.7	852.7	879.6	888.6	906.5	933.5	954.4
12.5°	801.8	798.8	804.8	816.8	834.7	861.7	897.6	912.5	933.5	969.4	999.3
15°	807.8	804.8	810.8	825.7	846.7	879.6	921.5	939.4	966.4	1017.2	1047.1
17.5°	825.7	822.8	825.7	837.7	858.7	894.6	948.4	966.4	1011.2	1068.1	1101.0
20°	906.5	903.5	885.6	879.6	882.6	915.5	984.3	1014.2	1068.1	1139.9	1163.8
22.5°	1074.1	1062.1	1029.2	975.3	939.4	951.4	1029.2	1062.1	1133.9	1214.7	1232.6
25°	1298.5	1289.5	1241.6	1148.9	1047.1	1017.2	1080.1	1124.9	1211.7	1301.5	1295.5
27.5°	1552.8	1534.8	1489.9	1361.3	1223.7	1124.9	1142.9	1181.8	1277.5	1373.3	1343.3
30°	1774.2	1768.2	1717.3	1609.6	1448.1	1301.5	1238.6	1259.6	1346.3	1448.1	1412.1
32.5°	1977.6	1959.7	1917.8	1816.0	1666.5	1516.9	1391.2	1391.2	1463.0	1582.7	1528.8
35°	2202.0	2190.0	2139.2	2037.4	1893.8	1717.3	1603.6	1591.7	1651.5	1786.1	1669.4
37.5°	2432.4	2402.4	2378.5	2273.8	2130.2	1977.6	1840.0	1813.1	1843.0	1941.7	1798.1
40°	2719.6	2719.6	2665.7	2570.0	2435.4	2273.8	2082.3	2013.5	2004.5	2133.2	2022.5
42.5°	3054.7	3045.7	3000.8	2911.1	2782.4	2632.8	2390.5	2327.7	2321.7	2477.2	2345.6
45°	3440.6	3434.6	3380.8	3306.0	3216.2	3051.7	2812.3	2749.5	2713.6	2893.1	2737.5
47.5°	3793.7	3772.7	3754.8	3763.7	3712.9	3527.4	3303.0	3228.2	3225.2	3365.8	3165.4
50°	4036.0	4024.0	4086.9	4146.7	4242.4	4125.7	3859.5	3793.7	3742.8	3928.3	3611.2
52.5°	4194.6	4188.6	4314.2	4484.8	4682.2	4673.3	4436.9	4398.0	4356.1	4407.0	4009.1
55°	4257.4	4257.4	4407.0	4721.1	5068.2	5217.8	5107.1	5053.2	4906.6	4801.9	4445.9
57.5°	4182.6	4173.6	4368.1	4778.0	5307.5	5615.7	5663.6	5600.7	5370.4	5253.7	4930.6
60°	3865.5	3871.4	4101.8	4619.4	5289.6	5777.2	6085.4	6028.6	5798.2	5624.7	5337.4
62.5°	3273.1	3323.9	3566.3	4128.7	4906.6	5648.6	6327.7	6357.7	6109.3	5893.9	5699.5
65°	2459.3	2504.2	2734.5	3356.8	4209.5	5217.8	6372.6	6489.3	6288.9	6070.4	5756.3
67.5°	1495.9	1510.9	1792.1	2261.8	3099.5	4347.1	6058.5	6312.8	6169.2	5810.2	5193.8
70°	697.1	736.0	873.6	1235.6	1962.6	3201.3	5235.7	5594.7	5433.2	4987.4	3949.2
72.5°	272.3	284.2	371.0	571.4	1041.2	2013.5	3907.3	4146.7	4036.0	3542.3	2354.6
75°	134.6	143.6	179.5	272.3	475.7	831.7	2387.5	2543.1	2360.6	1780.1	996.3
77.5°	98.7	98.7	119.7	167.5	260.3	308.2	1005.3	1127.9	1065.1	688.1	272.3
80°	65.8	71.8	83.8	113.7	164.6	149.6	380.0	451.8	377.0	212.4	95.7
82.5°	38.9	41.9	62.8	80.8	110.7	86.8	128.6	143.6	155.6	104.7	44.9
85°	20.9	20.9	41.9	59.8	59.8	38.9	44.9	50.9	59.8	62.8	23.9
87.5°	6.0	6.0	26.9	35.9	23.9	20.9	23.9	23.9	26.9	32.9	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



REPORT NUMBER: P572711

CATALOG NUMBER: ARCH-S-PA2-100-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6
2.5°	891.6	891.6	894.6	894.6	897.6	897.6	897.6	897.6	900.5	903.5	903.5
5°	900.5	903.5	903.5	903.5	903.5	897.6	894.6	891.6	891.6	894.6	894.6
7.5°	924.5	927.5	924.5	918.5	909.5	897.6	885.6	885.6	882.6	885.6	882.6
10°	960.4	960.4	957.4	942.4	927.5	903.5	879.6	861.7	849.7	846.7	840.7
12.5°	1005.3	1005.3	996.3	969.4	942.4	897.6	834.7	774.9	727.0	706.1	700.1
15°	1050.1	1050.1	1038.2	999.3	945.4	837.7	706.1	580.4	508.6	478.7	460.7
17.5°	1104.0	1098.0	1077.1	1023.2	912.5	718.0	505.6	377.0	320.1	293.2	293.2
20°	1160.8	1154.9	1116.0	1026.2	828.7	514.6	329.1	260.3	245.3	239.3	239.3
22.5°	1223.7	1208.7	1148.9	1002.3	652.2	350.0	248.3	230.4	224.4	221.4	221.4
25°	1274.5	1250.6	1172.8	936.4	466.7	245.3	218.4	212.4	200.5	197.5	191.5
27.5°	1313.4	1277.5	1181.8	795.8	308.2	203.4	194.5	182.5	170.5	158.6	158.6
30°	1364.3	1319.4	1187.8	619.3	209.4	176.5	167.5	152.6	137.6	125.7	125.7
32.5°	1466.0	1400.2	1190.8	433.8	173.5	155.6	137.6	119.7	104.7	98.7	95.7
35°	1576.7	1486.9	1157.8	281.2	152.6	131.6	110.7	95.7	80.8	77.8	77.8
37.5°	1699.4	1615.6	1086.0	191.5	134.6	110.7	89.8	74.8	65.8	62.8	62.8
40°	1905.8	1807.1	966.4	152.6	116.7	92.7	74.8	62.8	56.8	53.9	53.9
42.5°	2202.0	2031.5	816.8	131.6	101.7	77.8	59.8	50.9	47.9	44.9	44.9
45°	2543.1	2282.8	643.2	119.7	89.8	65.8	50.9	44.9	41.9	38.9	38.9
47.5°	2935.0	2543.1	508.6	104.7	77.8	56.8	44.9	38.9	35.9	32.9	32.9
50°	3306.0	2746.5	383.0	92.7	68.8	47.9	38.9	35.9	32.9	29.9	29.9
52.5°	3611.2	2884.1	290.2	80.8	59.8	41.9	35.9	32.9	26.9	26.9	26.9
55°	3979.1	2991.8	221.4	71.8	53.9	38.9	32.9	26.9	23.9	20.9	20.9
57.5°	4299.3	3030.7	161.6	62.8	47.9	35.9	29.9	23.9	18.0	15.0	15.0
60°	4514.7	2997.8	116.7	53.9	41.9	29.9	23.9	18.0	12.0	9.0	9.0
62.5°	4667.3	2926.0	89.8	47.9	35.9	26.9	20.9	15.0	9.0	6.0	6.0
65°	4514.7	2704.6	71.8	41.9	29.9	23.9	15.0	12.0	6.0	3.0	3.0
67.5°	3904.4	2267.8	56.8	35.9	26.9	20.9	15.0	9.0	3.0	0.0	0.0
70°	2806.3	1618.6	47.9	32.9	23.9	18.0	12.0	6.0	3.0	0.0	0.0
72.5°	1564.7	834.7	44.9	29.9	23.9	18.0	12.0	6.0	3.0	0.0	0.0
75°	634.3	287.2	41.9	29.9	23.9	15.0	12.0	6.0	3.0	0.0	0.0
77.5°	185.5	98.7	35.9	26.9	23.9	18.0	12.0	6.0	3.0	0.0	0.0
80°	65.8	44.9	26.9	23.9	18.0	15.0	12.0	9.0	3.0	0.0	0.0
82.5°	29.9	18.0	12.0	9.0	9.0	9.0	9.0	6.0	3.0	0.0	0.0
85°	12.0	9.0	6.0	3.0	3.0	3.0	3.0	3.0	3.0	0.0	0.0
87.5°	9.0	6.0	3.0	3.0	3.0	3.0	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)