

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: P573321

Luminaire Tested: **ARCH-S-PA2-60-740-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-60-740-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6500 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

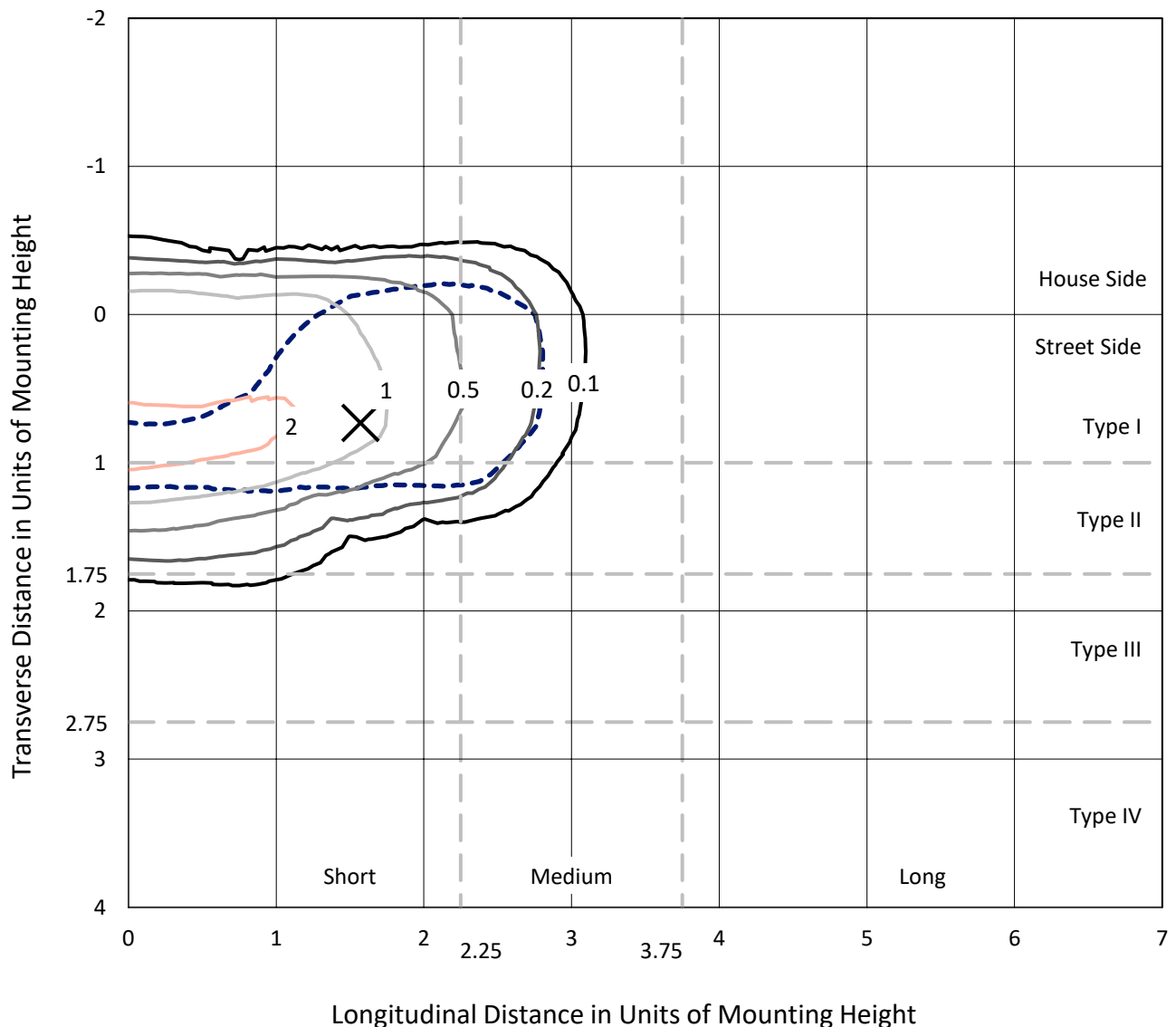
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573321
 CATALOG NUMBER: ARCH-S-PA2-60-740-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

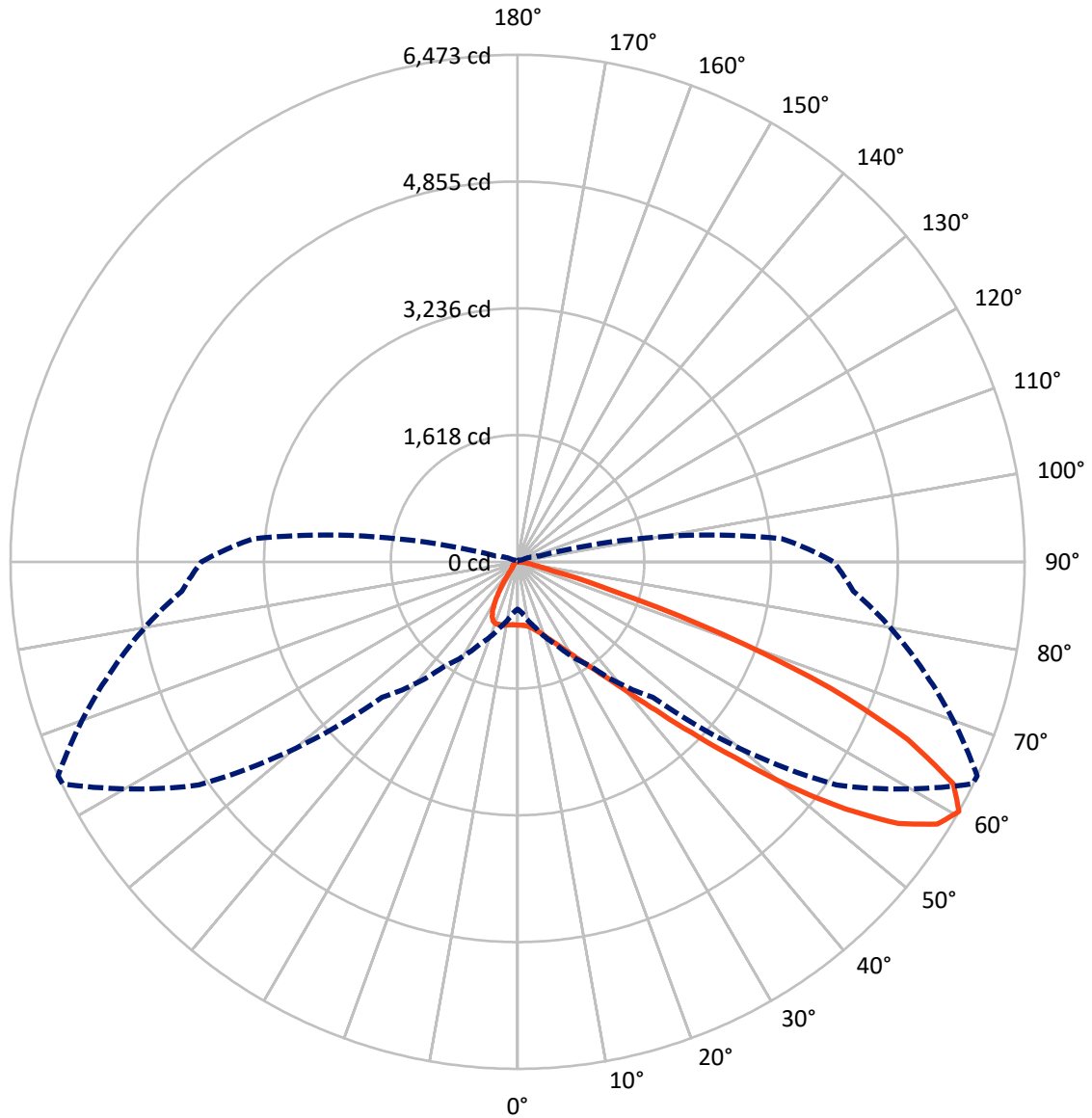
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

REPORT NUMBER: P573321
CATALOG NUMBER: ARCH-S-PA2-60-740-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P573321
 CATALOG NUMBER: ARCH-S-PA2-60-740-U-T2U-HSS

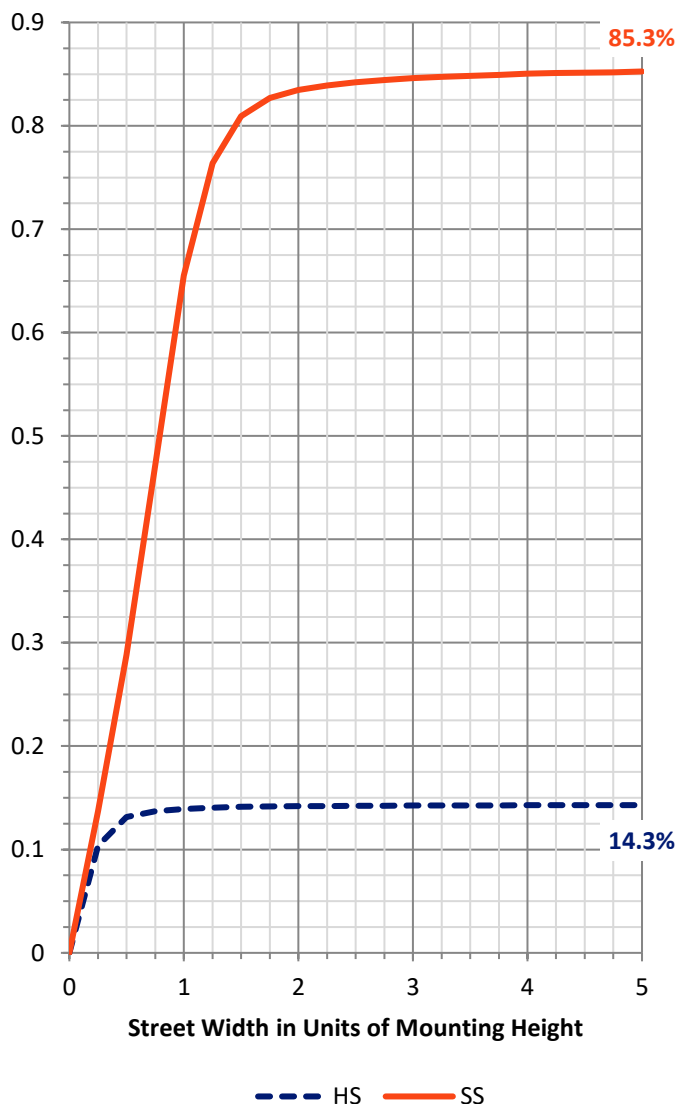
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	941.0	0.0	941.0
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	5559.0	0.0	5559.0
	% Fixture	85.5	0.0	85.5
Total	Lumens	6500.0	0.0	6500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	1.2
10°-20°	217.1	3.3
20°-30°	368.8	5.7
30°-40°	761.0	11.7
40°-50°	1530.5	23.5
50°-60°	1872.9	28.8
60°-70°	1325.0	20.4
70°-80°	319.3	4.9
80°-90°	28.8	0.4
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°	6500.0	100.0
0°-180°	6500.0	100.0

Coefficient of Utilization

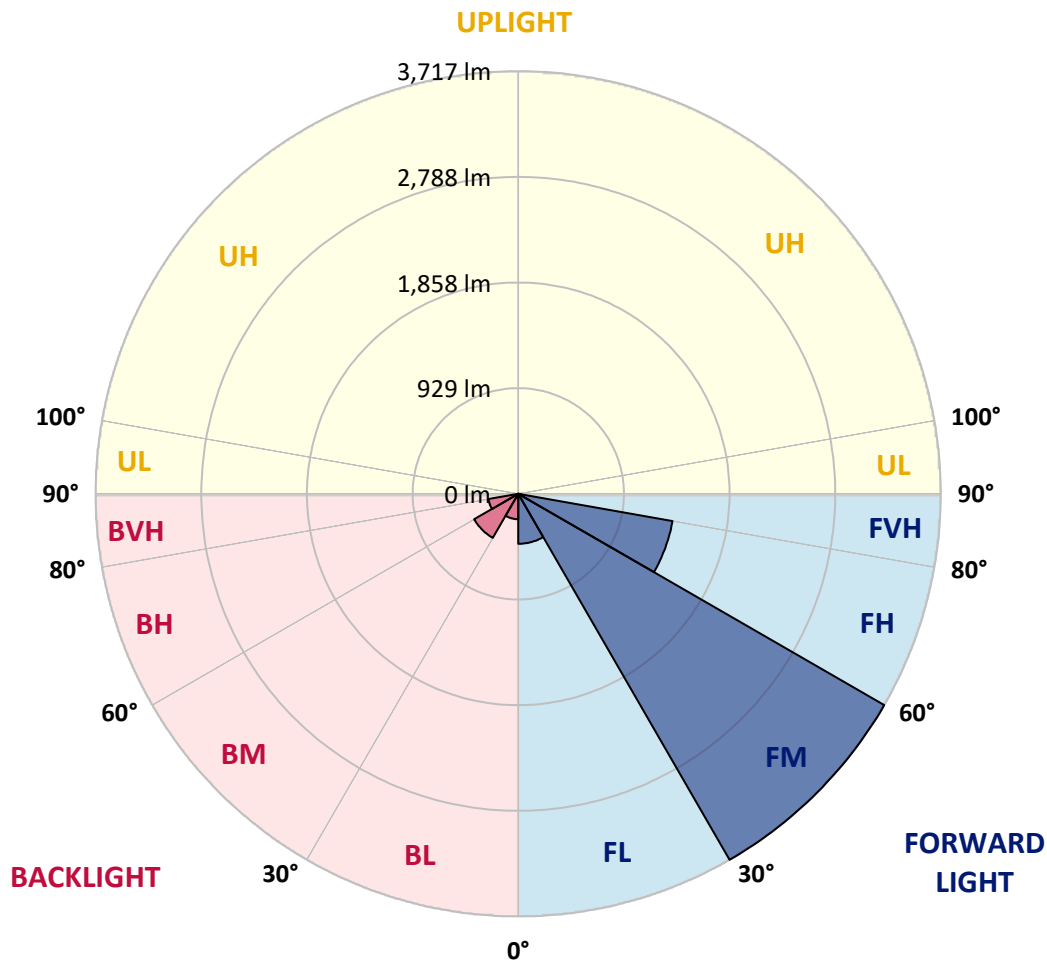


REPORT NUMBER: P573321
 CATALOG NUMBER: ARCH-S-PA2-60-740-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.4	6.8			
FM (30°-60°)	3717.0	57.2			
FH (60°-80°)	1377.5	21.2			G1/1800
FVH (80°-90°)	25.1	0.4			G1/100
BL (0°-30°)	223.1	3.4	B1/500		
BM (30°-60°)	447.4	6.9	B1/1000		
BH (60°-80°)	266.7	4.1	B1/500		G1/500
BVH (80°-90°)	3.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





REPORT NUMBER: P573321

CATALOG NUMBER: ARCH-S-PA2-60-740-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	809.7	809.7	809.7	809.7	809.7	809.7	809.7	809.7	809.7	809.7	809.7
2.5°	812.3	809.7	809.7	809.7	812.3	812.3	814.9	809.7	809.7	809.7	809.7
5°	807.2	804.6	804.6	807.2	809.7	809.7	814.9	814.9	814.9	817.4	817.4
7.5°	817.4	812.3	812.3	814.9	817.4	817.4	822.5	825.1	825.1	830.2	832.8
10°	830.2	827.7	827.7	832.8	837.9	837.9	845.6	845.6	845.6	850.7	853.3
12.5°	848.2	845.6	845.6	853.3	861.0	866.1	871.2	873.8	876.4	876.4	876.4
15°	873.8	871.2	871.2	878.9	889.2	902.0	909.7	909.7	914.8	912.2	902.0
17.5°	909.7	907.1	909.7	914.8	927.6	940.4	955.8	958.4	955.8	950.7	935.3
20°	968.6	960.9	966.0	978.9	978.9	986.5	1007.0	1014.7	1017.3	1001.9	973.7
22.5°	1030.1	1030.1	1035.2	1050.6	1040.4	1050.6	1068.5	1081.4	1086.5	1073.7	1027.5
25°	1145.4	1150.5	1142.9	1137.7	1112.1	1117.2	1140.3	1165.9	1165.9	1155.7	1089.0
27.5°	1399.1	1394.0	1340.2	1265.9	1199.2	1204.4	1227.4	1260.7	1263.3	1240.2	1150.5
30°	1763.0	1768.1	1663.0	1493.9	1347.9	1309.4	1335.0	1373.5	1378.6	1340.2	1230.0
32.5°	2331.8	2288.3	2093.5	1868.0	1593.9	1455.5	1465.7	1506.7	1522.1	1488.8	1355.5
35°	3067.3	2964.8	2672.6	2393.3	1996.2	1716.8	1637.4	1681.0	1688.7	1670.7	1511.9
37.5°	3505.4	3423.4	3233.8	2980.1	2513.8	2065.3	1862.9	1906.5	1898.8	1862.9	1668.2
40°	3777.1	3730.9	3628.4	3510.6	3213.3	2613.7	2234.5	2198.6	2201.2	2149.9	1921.8
42.5°	3930.8	3889.8	3851.4	3882.1	3795.0	3607.9	2772.6	2608.6	2593.2	2495.8	2216.5
45°	3938.5	3877.0	3923.1	4102.5	4240.9	4489.4	3474.7	3095.5	3103.1	2941.7	2583.0
47.5°	3643.8	3595.1	3728.4	4079.4	4538.1	5066.0	4292.1	3761.7	3725.8	3408.1	2954.5
50°	3062.1	3059.6	3236.4	3733.5	4538.1	5363.2	5168.5	4543.2	4504.8	3894.9	3292.8
52.5°	2424.1	2472.8	2593.2	3064.7	4120.4	5335.0	5814.2	5350.4	5242.8	4328.0	3574.6
55°	1886.0	1868.0	2014.1	2339.5	3267.1	4848.2	6024.3	5985.9	5896.2	4712.4	3823.2
57.5°	1158.2	1224.9	1422.2	1711.7	2378.0	3812.9	5722.0	6372.8	6319.0	5071.1	4082.0
60°	602.2	653.4	866.1	1168.5	1624.6	2444.6	4966.0	6462.5	6472.8	5360.7	4302.4
62.5°	379.2	376.7	474.1	820.0	1045.5	1373.5	3856.5	6144.8	6242.2	5583.6	4512.5
65°	284.4	287.0	325.4	543.2	709.8	717.5	2288.3	5314.5	5476.0	5642.5	4584.2
67.5°	263.9	266.5	284.4	356.2	533.0	479.2	1007.0	4097.4	4322.9	5099.3	4307.5
70°	235.7	238.3	266.5	294.7	402.3	351.1	453.6	2467.6	2780.3	3700.2	3446.5
72.5°	184.5	189.6	222.9	279.3	299.8	266.5	315.2	1091.6	1273.5	2034.6	1973.1
75°	135.8	138.4	169.1	215.2	263.9	189.6	243.4	433.1	474.1	763.6	650.9
77.5°	94.8	94.8	117.9	161.4	220.4	133.2	174.2	233.2	238.3	284.4	187.1
80°	58.9	61.5	74.3	110.2	135.8	128.1	107.6	156.3	156.3	148.6	76.9
82.5°	33.3	35.9	51.2	74.3	92.2	87.1	69.2	89.7	92.2	94.8	43.6
85°	15.4	17.9	30.7	46.1	53.8	41.0	41.0	46.1	46.1	61.5	25.6
87.5°	2.6	2.6	15.4	20.5	17.9	20.5	20.5	25.6	25.6	30.7	12.8
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: P573321
 CATALOG NUMBER: ARCH-S-PA2-60-740-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	809.7	809.7	809.7	809.7	809.7	809.7	809.7	809.7	809.7	809.7	809.7
2.5°	807.2	807.2	807.2	804.6	804.6	802.1	796.9	796.9	796.9	796.9	799.5
5°	817.4	814.9	812.3	804.6	799.5	789.2	779.0	776.4	768.7	768.7	771.3
7.5°	830.2	830.2	822.5	809.7	796.9	779.0	761.1	748.2	735.4	732.9	730.3
10°	853.3	848.2	840.5	817.4	796.9	768.7	740.6	707.2	681.6	668.8	663.7
12.5°	871.2	868.7	853.3	827.7	794.4	750.8	686.7	609.9	548.4	515.1	515.1
15°	896.9	891.7	868.7	832.8	786.7	684.2	553.5	435.6	369.0	333.1	328.0
17.5°	922.5	912.2	884.0	835.4	753.4	563.7	386.9	279.3	233.2	215.2	210.1
20°	953.2	935.3	894.3	837.9	671.4	410.0	251.1	187.1	169.1	161.4	164.0
22.5°	994.2	963.5	904.5	822.5	548.4	266.5	176.8	151.2	140.9	133.2	133.2
25°	1045.5	1001.9	922.5	779.0	397.2	179.4	140.9	125.6	115.3	110.2	107.6
27.5°	1091.6	1037.8	940.4	702.1	253.7	140.9	117.9	105.1	94.8	92.2	89.7
30°	1153.1	1078.8	958.4	579.1	166.6	115.3	99.9	87.1	79.4	76.9	76.9
32.5°	1258.2	1158.2	991.7	440.7	125.6	99.9	84.6	74.3	69.2	66.6	66.6
35°	1381.2	1255.6	1019.9	307.5	107.6	84.6	71.7	64.1	61.5	58.9	58.9
37.5°	1509.3	1370.9	1025.0	194.7	94.8	74.3	64.1	58.9	53.8	53.8	53.8
40°	1739.9	1573.4	1001.9	130.7	82.0	66.6	56.4	53.8	48.7	48.7	48.7
42.5°	2009.0	1819.3	943.0	105.1	74.3	58.9	53.8	48.7	43.6	43.6	41.0
45°	2357.5	2098.7	843.0	92.2	66.6	53.8	48.7	43.6	41.0	38.4	38.4
47.5°	2685.5	2416.4	748.2	82.0	61.5	51.2	43.6	38.4	35.9	35.9	35.9
50°	2998.1	2659.8	638.1	76.9	56.4	48.7	41.0	35.9	33.3	30.7	30.7
52.5°	3223.6	2852.0	535.6	69.2	51.2	43.6	38.4	33.3	28.2	25.6	25.6
55°	3474.7	3046.8	443.3	61.5	48.7	41.0	33.3	28.2	23.1	20.5	20.5
57.5°	3756.6	3236.4	358.7	56.4	46.1	35.9	28.2	23.1	17.9	15.4	15.4
60°	4035.9	3387.6	287.0	51.2	41.0	33.3	25.6	17.9	12.8	10.2	10.2
62.5°	4315.2	3490.1	220.4	46.1	38.4	28.2	20.5	12.8	7.7	5.1	5.1
65°	4430.5	3461.9	164.0	41.0	33.3	23.1	17.9	12.8	7.7	5.1	5.1
67.5°	4110.2	3113.4	115.3	41.0	30.7	23.1	15.4	10.2	5.1	2.6	2.6
70°	3208.2	2403.6	84.6	41.0	30.7	23.1	15.4	10.2	5.1	2.6	2.6
72.5°	1819.3	1337.6	64.1	35.9	28.2	20.5	15.4	10.2	5.1	2.6	2.6
75°	648.3	430.5	48.7	33.3	25.6	17.9	15.4	10.2	5.1	2.6	2.6
77.5°	156.3	110.2	38.4	28.2	23.1	17.9	12.8	10.2	7.7	2.6	2.6
80°	64.1	46.1	30.7	23.1	17.9	15.4	12.8	10.2	5.1	2.6	2.6
82.5°	28.2	23.1	12.8	12.8	10.2	10.2	10.2	10.2	5.1	2.6	2.6
85°	12.8	10.2	5.1	5.1	2.6	2.6	2.6	5.1	5.1	2.6	2.6
87.5°	7.7	5.1	5.1	5.1	2.6	2.6	2.6	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)