

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: P573438

Luminaire Tested: **ARCH-S-PA2-70-830-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573438
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-PA2-70-830-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 725mA 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: 5845 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

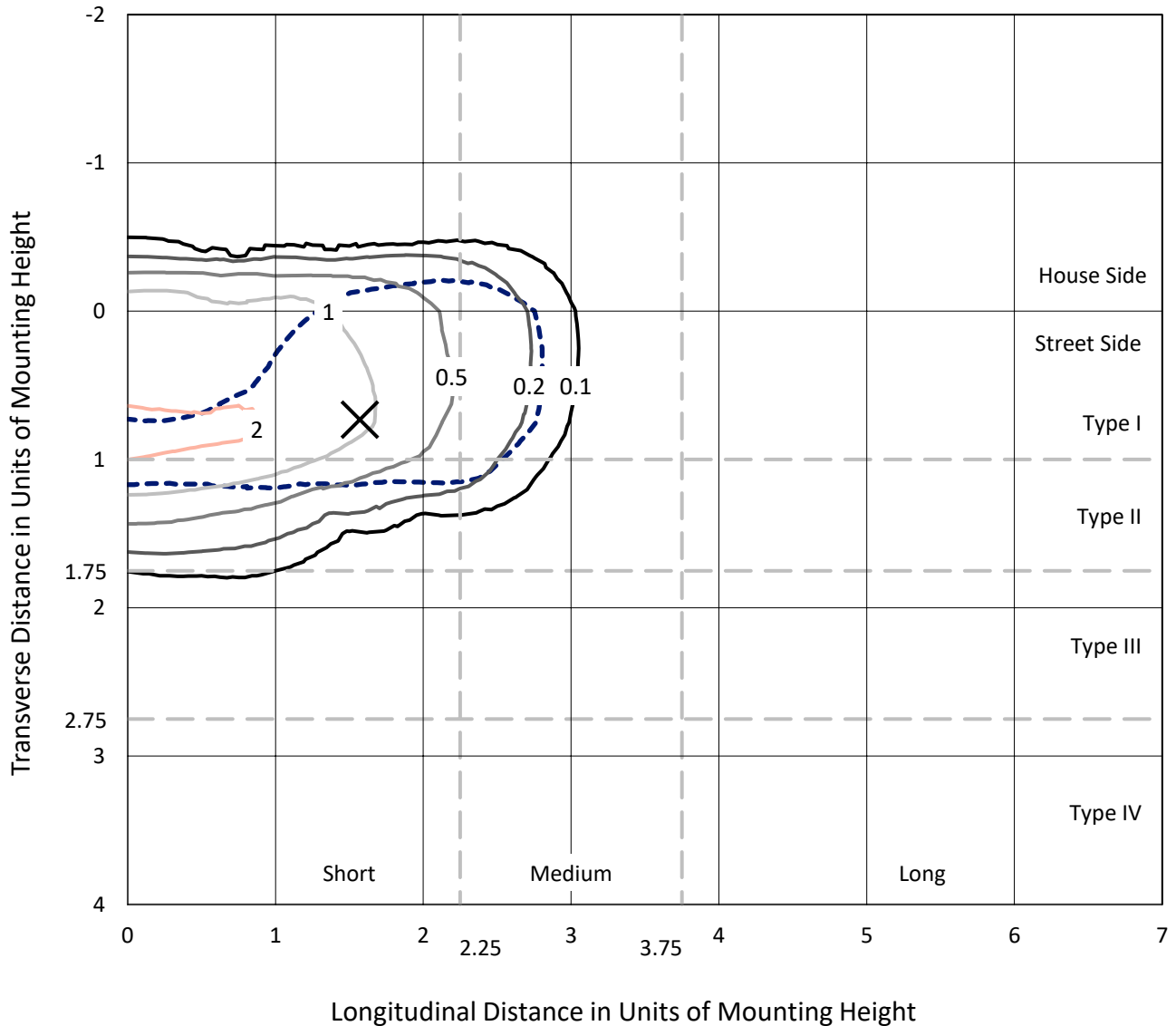
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

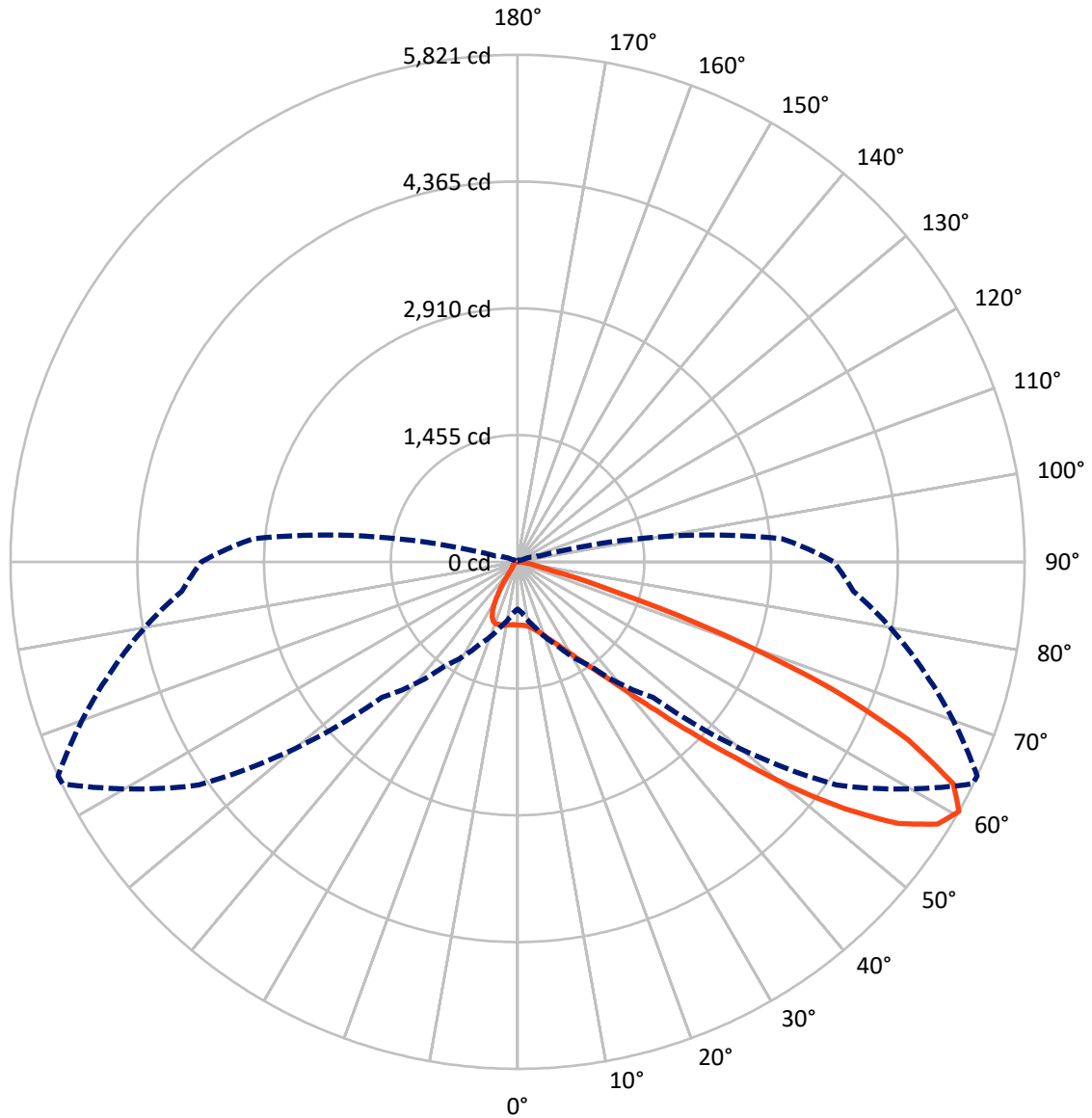
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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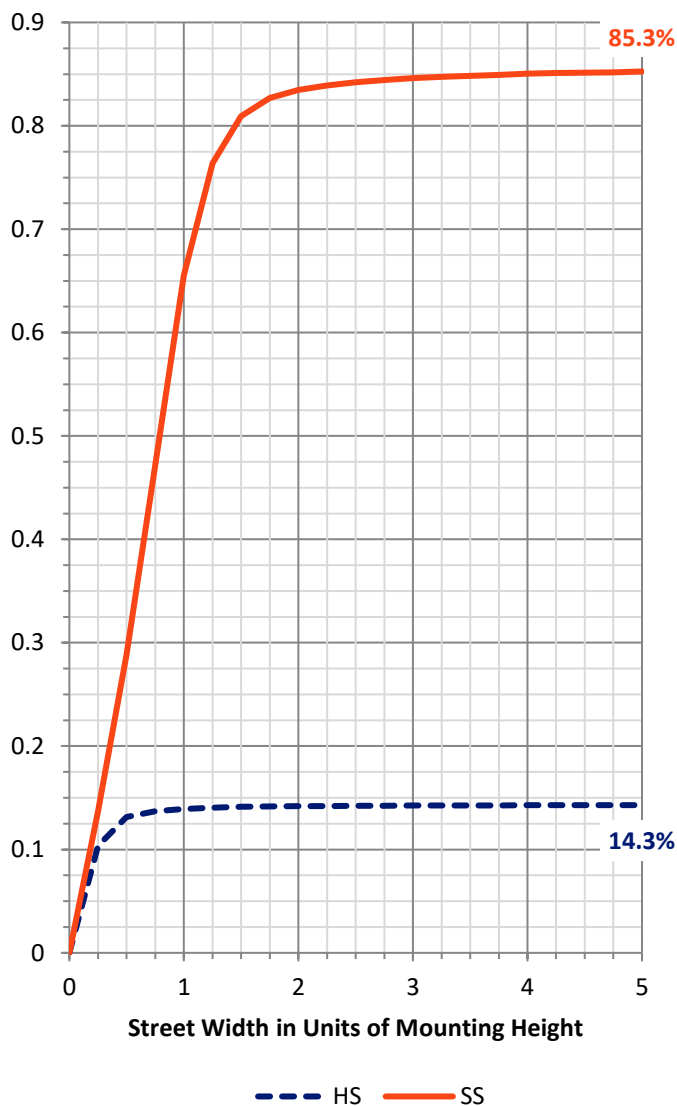
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	846.2	0.0	846.2
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	4998.8	0.0	4998.8
	% Fixture	85.5	0.0	85.5
Total	Lumens	5845.0	0.0	5845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	1.2
10°-20°	195.2	3.3
20°-30°	331.7	5.7
30°-40°	684.3	11.7
40°-50°	1376.3	23.5
50°-60°	1684.2	28.8
60°-70°	1191.5	20.4
70°-80°	287.1	4.9
80°-90°	25.9	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°	5845.0	100.0
0°-180°	5845.0	100.0

Coefficient of Utilization



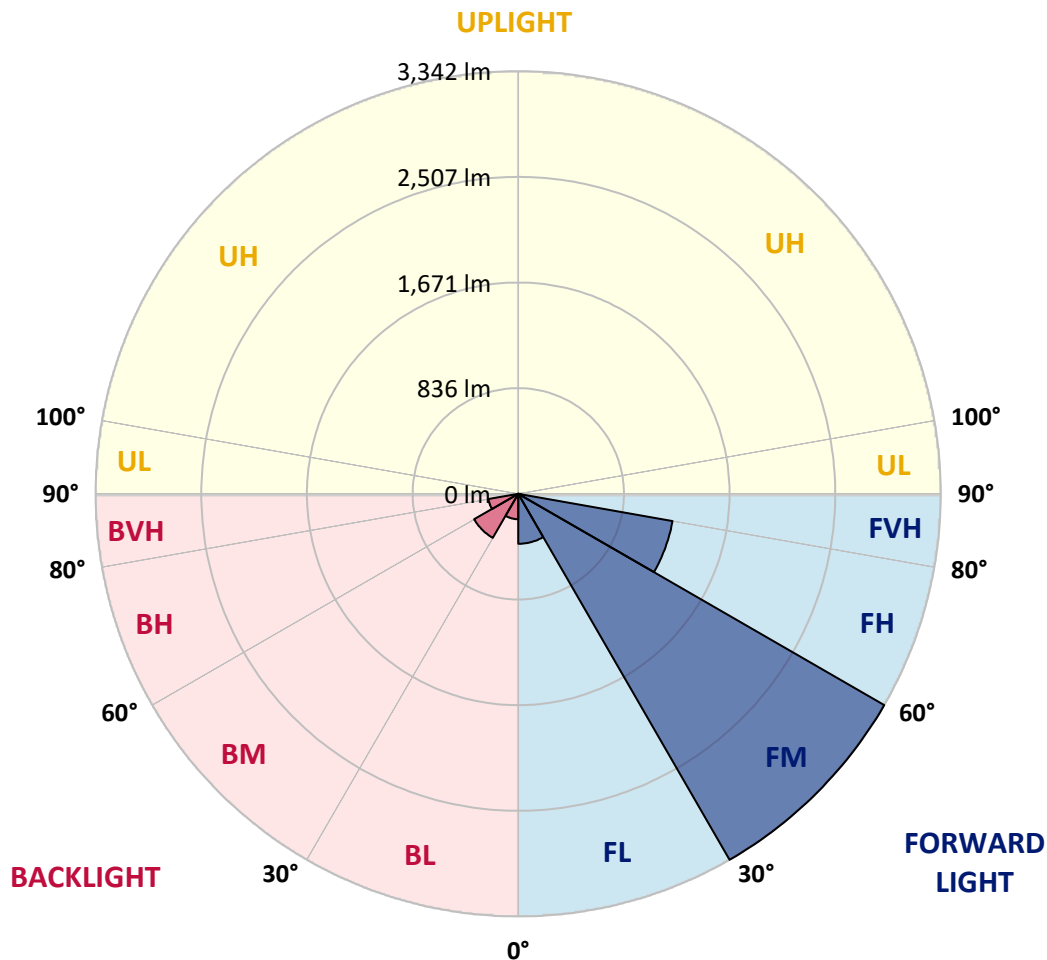
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	395.1	6.8			
FM (30°-60°)	3342.4	57.2			
FH (60°-80°)	1238.7	21.2			G1/1800
FVH (80°-90°)	22.6	0.4			G1/100
BL (0°-30°)	200.6	3.4	B1/500		
BM (30°-60°)	402.4	6.9	B1/1000		
BH (60°-80°)	239.9	4.1	B1/500		G1/500
BVH (80°-90°)	3.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1
2.5°	730.4	728.1	728.1	728.1	730.4	730.4	732.7	728.1	728.1	728.1	728.1
5°	725.8	723.5	723.5	725.8	728.1	728.1	732.7	732.7	732.7	735.1	735.1
7.5°	735.1	730.4	730.4	732.7	735.1	735.1	739.7	742.0	742.0	746.6	748.9
10°	746.6	744.3	744.3	748.9	753.5	753.5	760.4	760.4	760.4	765.0	767.3
12.5°	762.7	760.4	760.4	767.3	774.2	778.8	783.4	785.7	788.1	788.1	788.1
15°	785.7	783.4	783.4	790.4	799.6	811.1	818.0	818.0	822.6	820.3	811.1
17.5°	818.0	815.7	818.0	822.6	834.1	845.7	859.5	861.8	859.5	854.9	841.0
20°	871.0	864.1	868.7	880.2	880.2	887.1	905.6	912.5	914.8	901.0	875.6
22.5°	926.3	926.3	930.9	944.7	935.5	944.7	960.9	972.4	977.0	965.5	924.0
25°	1030.0	1034.6	1027.7	1023.1	1000.0	1004.7	1025.4	1048.4	1048.4	1039.2	979.3
27.5°	1258.1	1253.5	1205.1	1138.3	1078.4	1083.0	1103.7	1133.7	1136.0	1115.3	1034.6
30°	1585.3	1589.9	1495.5	1343.4	1212.0	1177.5	1200.5	1235.1	1239.7	1205.1	1106.0
32.5°	2096.9	2057.7	1882.6	1679.8	1433.2	1308.8	1318.0	1354.9	1368.7	1338.8	1218.9
35°	2758.2	2666.0	2403.3	2152.2	1795.0	1543.8	1472.4	1511.6	1518.5	1502.4	1359.5
37.5°	3152.2	3078.5	2908.0	2679.8	2260.5	1857.2	1675.2	1714.4	1707.4	1675.2	1500.1
40°	3396.5	3355.0	3262.8	3156.8	2889.5	2350.3	2009.3	1977.0	1979.3	1933.3	1728.2
42.5°	3534.7	3497.8	3463.3	3490.9	3412.6	3244.4	2493.2	2345.7	2331.9	2244.3	1993.2
45°	3541.6	3486.3	3527.8	3689.1	3813.5	4037.0	3124.6	2783.5	2790.4	2645.3	2322.7
47.5°	3276.6	3232.9	3352.7	3668.4	4080.8	4555.5	3859.6	3382.6	3350.4	3064.6	2656.8
50°	2753.6	2751.3	2910.3	3357.3	4080.8	4822.8	4647.7	4085.4	4050.9	3502.5	2961.0
52.5°	2179.8	2223.6	2331.9	2755.9	3705.2	4797.4	5228.3	4811.3	4714.5	3891.9	3214.4
55°	1695.9	1679.8	1811.1	2103.8	2937.9	4359.6	5417.3	5382.7	5302.1	4237.5	3437.9
57.5°	1041.5	1101.4	1278.9	1539.2	2138.3	3428.7	5145.4	5730.7	5682.3	4560.1	3670.7
60°	541.5	587.6	778.8	1050.7	1460.9	2198.2	4465.6	5811.3	5820.5	4820.5	3868.8
62.5°	341.0	338.7	426.3	737.4	940.1	1235.1	3467.9	5525.6	5613.1	5020.9	4057.8
65°	255.8	258.1	292.6	488.5	638.3	645.2	2057.7	4779.0	4924.2	5073.9	4122.3
67.5°	237.3	239.6	255.8	320.3	479.3	430.9	905.6	3684.5	3887.3	4585.4	3873.4
70°	212.0	214.3	239.6	265.0	361.8	315.7	407.9	2219.0	2500.1	3327.3	3099.2
72.5°	165.9	170.5	200.5	251.2	269.6	239.6	283.4	981.6	1145.2	1829.6	1774.3
75°	122.1	124.4	152.1	193.6	237.3	170.5	218.9	389.4	426.3	686.7	585.3
77.5°	85.3	85.3	106.0	145.2	198.2	119.8	156.7	209.7	214.3	255.8	168.2
80°	53.0	55.3	66.8	99.1	122.1	115.2	96.8	140.6	140.6	133.6	69.1
82.5°	30.0	32.3	46.1	66.8	83.0	78.3	62.2	80.6	83.0	85.3	39.2
85°	13.8	16.1	27.7	41.5	48.4	36.9	36.9	41.5	41.5	55.3	23.0
87.5°	2.3	2.3	13.8	18.4	16.1	18.4	18.4	23.0	23.0	27.7	11.5
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°	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1	728.1
2.5°	725.8	725.8	725.8	723.5	723.5	721.2	716.6	716.6	716.6	716.6	718.9
5°	735.1	732.7	730.4	723.5	718.9	709.7	700.5	698.2	691.3	691.3	693.6
7.5°	746.6	746.6	739.7	728.1	716.6	700.5	684.4	672.8	661.3	659.0	656.7
10°	767.3	762.7	755.8	735.1	716.6	691.3	665.9	636.0	612.9	601.4	596.8
12.5°	783.4	781.1	767.3	744.3	714.3	675.1	617.5	548.4	493.1	463.2	463.2
15°	806.5	801.9	781.1	748.9	707.4	615.2	497.7	391.7	331.8	299.6	294.9
17.5°	829.5	820.3	795.0	751.2	677.4	506.9	347.9	251.2	209.7	193.6	188.9
20°	857.2	841.0	804.2	753.5	603.7	368.7	225.8	168.2	152.1	145.2	147.5
22.5°	894.0	866.4	813.4	739.7	493.1	239.6	159.0	136.0	126.7	119.8	119.8
25°	940.1	901.0	829.5	700.5	357.2	161.3	126.7	112.9	103.7	99.1	96.8
27.5°	981.6	933.2	845.7	631.4	228.1	126.7	106.0	94.5	85.3	83.0	80.6
30°	1036.9	970.1	861.8	520.8	149.8	103.7	89.9	78.3	71.4	69.1	69.1
32.5°	1131.4	1041.5	891.7	396.3	112.9	89.9	76.0	66.8	62.2	59.9	59.9
35°	1242.0	1129.1	917.1	276.5	96.8	76.0	64.5	57.6	55.3	53.0	53.0
37.5°	1357.2	1232.8	921.7	175.1	85.3	66.8	57.6	53.0	48.4	48.4	48.4
40°	1564.6	1414.8	901.0	117.5	73.7	59.9	50.7	48.4	43.8	43.8	43.8
42.5°	1806.5	1636.0	848.0	94.5	66.8	53.0	48.4	43.8	39.2	39.2	36.9
45°	2119.9	1887.2	758.1	83.0	59.9	48.4	43.8	39.2	36.9	34.6	34.6
47.5°	2414.8	2172.9	672.8	73.7	55.3	46.1	39.2	34.6	32.3	32.3	32.3
50°	2696.0	2391.8	573.8	69.1	50.7	43.8	36.9	32.3	30.0	27.7	27.7
52.5°	2898.7	2564.6	481.6	62.2	46.1	39.2	34.6	30.0	25.3	23.0	23.0
55°	3124.6	2739.7	398.6	55.3	43.8	36.9	30.0	25.3	20.7	18.4	18.4
57.5°	3378.0	2910.3	322.6	50.7	41.5	32.3	25.3	20.7	16.1	13.8	13.8
60°	3629.2	3046.2	258.1	46.1	36.9	30.0	23.0	16.1	11.5	9.2	9.2
62.5°	3880.3	3138.4	198.2	41.5	34.6	25.3	18.4	11.5	6.9	4.6	4.6
65°	3984.0	3113.0	147.5	36.9	30.0	20.7	16.1	11.5	6.9	4.6	4.6
67.5°	3696.0	2799.7	103.7	36.9	27.7	20.7	13.8	9.2	4.6	2.3	2.3
70°	2884.9	2161.4	76.0	36.9	27.7	20.7	13.8	9.2	4.6	2.3	2.3
72.5°	1636.0	1202.8	57.6	32.3	25.3	18.4	13.8	9.2	4.6	2.3	2.3
75°	583.0	387.1	43.8	30.0	23.0	16.1	13.8	9.2	4.6	2.3	2.3
77.5°	140.6	99.1	34.6	25.3	20.7	16.1	11.5	9.2	6.9	2.3	2.3
80°	57.6	41.5	27.7	20.7	16.1	13.8	11.5	9.2	4.6	2.3	2.3
82.5°	25.3	20.7	11.5	11.5	9.2	9.2	9.2	9.2	4.6	2.3	2.3
85°	11.5	9.2	4.6	4.6	2.3	2.3	2.3	4.6	4.6	2.3	2.3
87.5°	6.9	4.6	4.6	4.6	2.3	2.3	2.3	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)