

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: P573195

Luminaire Tested: **ARCH-S-PA2-40-830-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573195
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-PA2-40-830-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 420mA 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: 3657 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

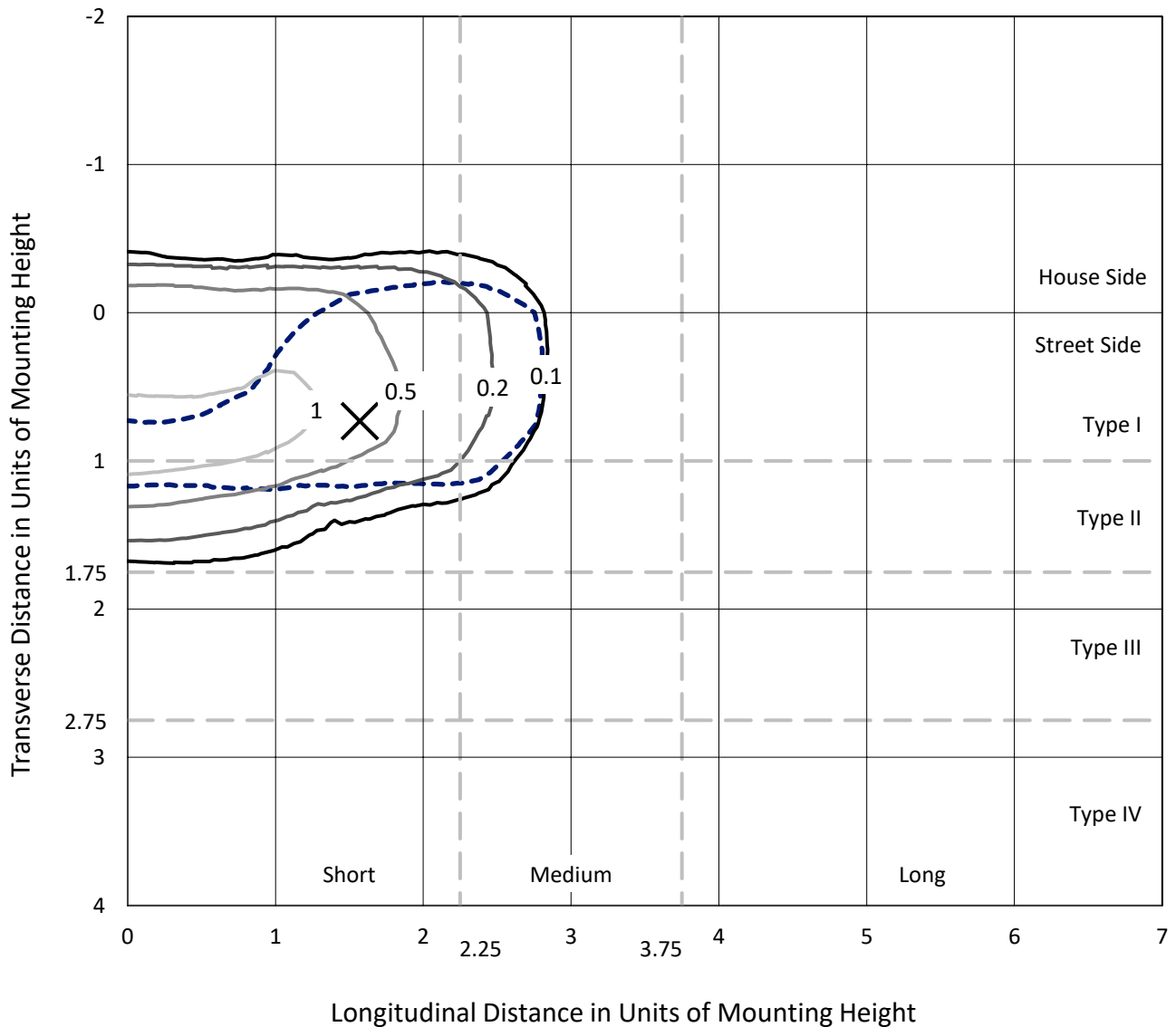
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

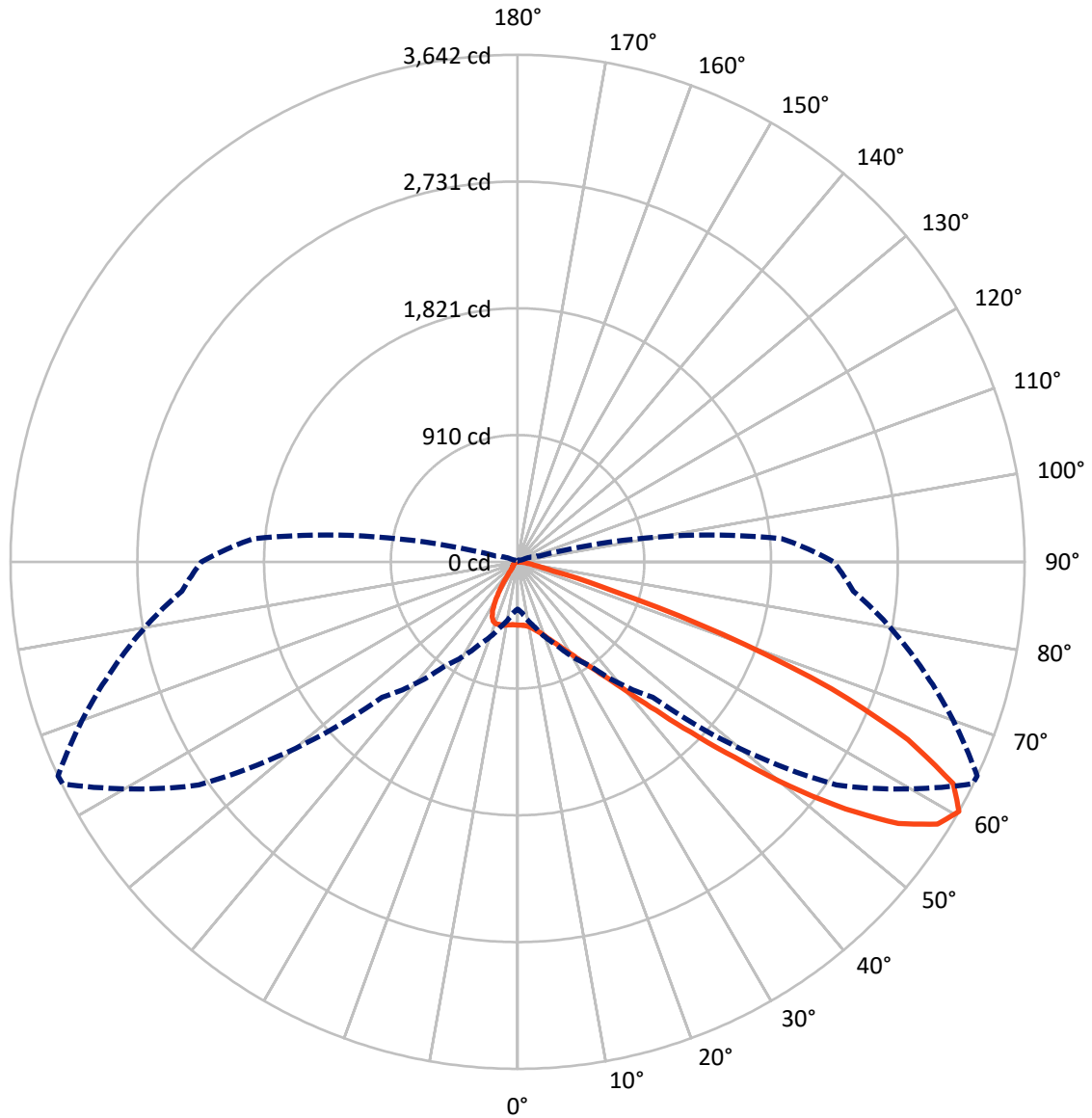
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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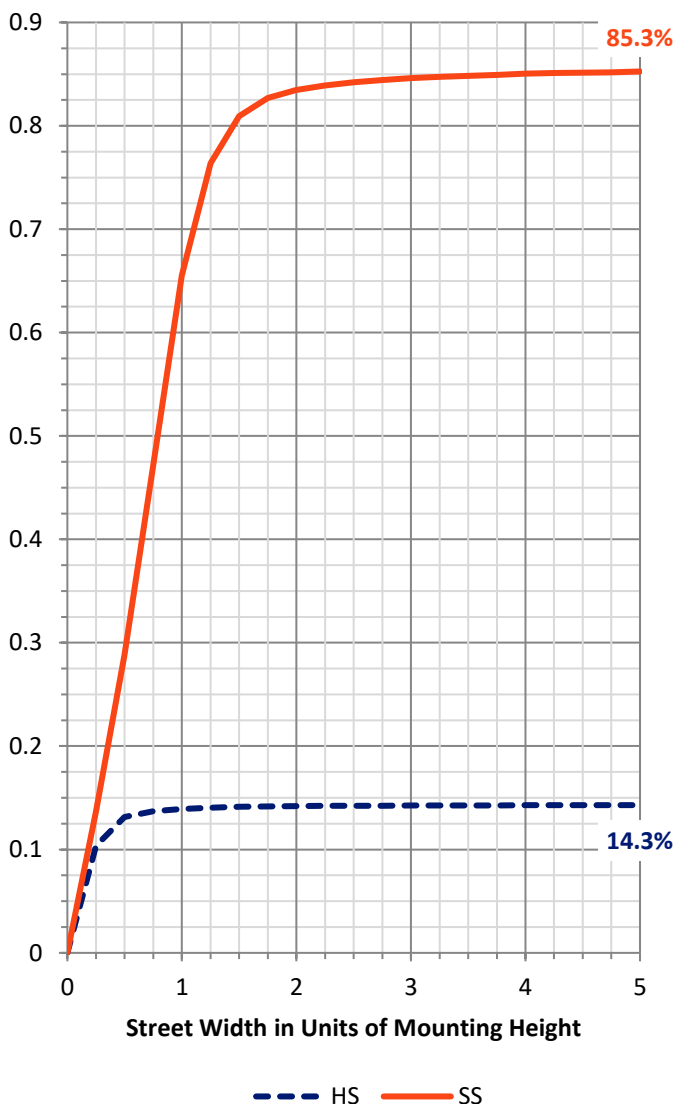
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	529.4	0.0	529.4
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	3127.6	0.0	3127.6
	% Fixture	85.5	0.0	85.5
Total	Lumens	3657.0	0.0	3657.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	1.2
10°-20°	122.2	3.3
20°-30°	207.5	5.7
30°-40°	428.2	11.7
40°-50°	861.1	23.5
50°-60°	1053.7	28.8
60°-70°	745.4	20.4
70°-80°	179.6	4.9
80°-90°	16.2	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°	3657.0	100.0
0°-180°	3657.0	100.0

Coefficient of Utilization



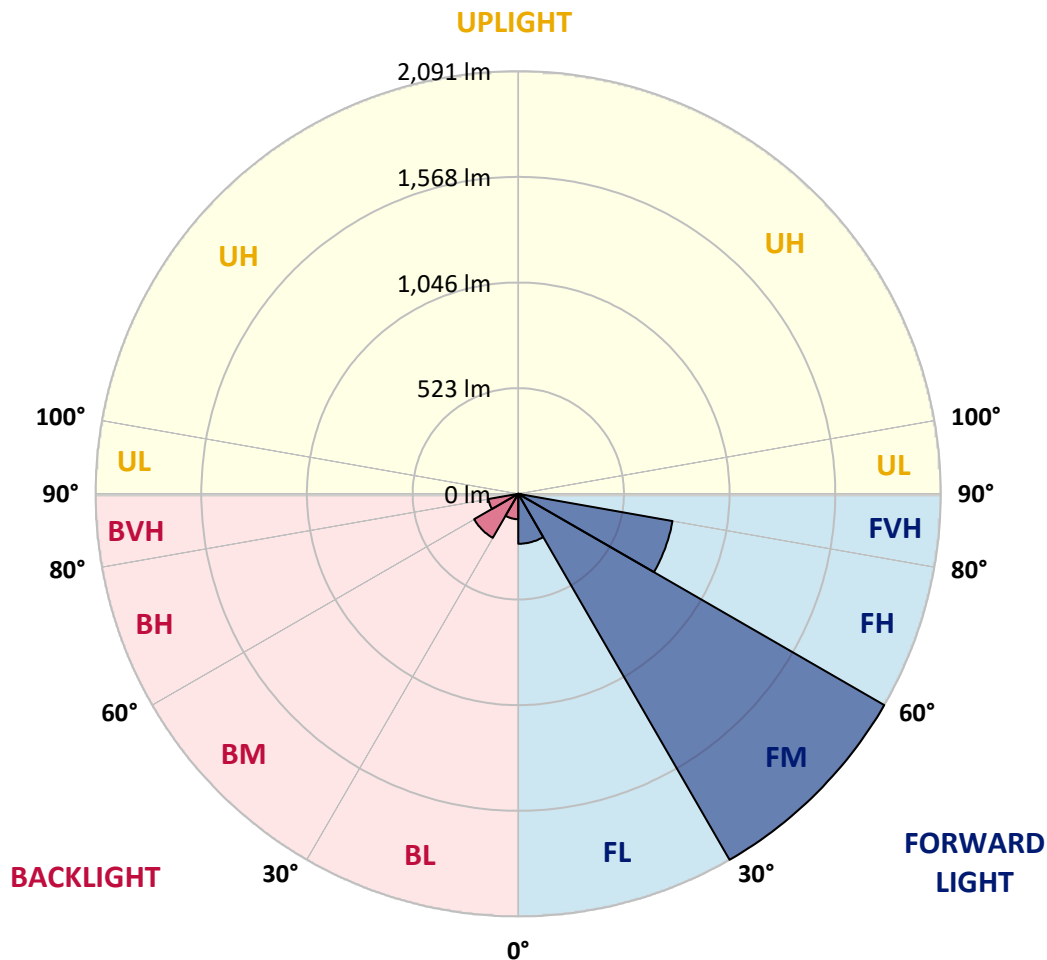
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	247.2	6.8			
FM (30°-60°)	2091.2	57.2			
FH (60°-80°)	775.0	21.2			G1/1800
FVH (80°-90°)	14.1	0.4			G1/100
BL (0°-30°)	125.5	3.4	B1/500		
BM (30°-60°)	251.7	6.9	B1/1000		
BH (60°-80°)	150.1	4.1	B1/500		G1/500
BVH (80°-90°)	2.1	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°	455.6	455.6	455.6	455.6	455.6	455.6	455.6	455.6	455.6	455.6	455.6
2.5°	457.0	455.6	455.6	455.6	457.0	457.0	458.5	455.6	455.6	455.6	455.6
5°	454.1	452.7	452.7	454.1	455.6	455.6	458.5	458.5	458.5	459.9	459.9
7.5°	459.9	457.0	457.0	458.5	459.9	459.9	462.8	464.2	464.2	467.1	468.5
10°	467.1	465.7	465.7	468.5	471.4	471.4	475.8	475.8	475.8	478.6	480.1
12.5°	477.2	475.8	475.8	480.1	484.4	487.3	490.2	491.6	493.1	493.1	493.1
15°	491.6	490.2	490.2	494.5	500.3	507.5	511.8	511.8	514.7	513.2	507.5
17.5°	511.8	510.4	511.8	514.7	521.9	529.1	537.7	539.2	537.7	534.9	526.2
20°	545.0	540.6	543.5	550.7	550.7	555.0	566.6	570.9	572.3	563.7	547.8
22.5°	579.6	579.6	582.4	591.1	585.3	591.1	601.2	608.4	611.3	604.1	578.1
25°	644.4	647.3	643.0	640.1	625.7	628.6	641.5	656.0	656.0	650.2	612.7
27.5°	787.2	784.3	754.0	712.2	674.7	677.6	690.6	709.3	710.7	697.8	647.3
30°	991.9	994.8	935.7	840.5	758.3	736.7	751.1	772.7	775.6	754.0	692.0
32.5°	1311.9	1287.4	1177.9	1051.0	896.7	818.9	824.6	847.7	856.4	837.6	762.6
35°	1725.7	1668.0	1503.7	1346.5	1123.1	965.9	921.2	945.7	950.1	940.0	850.6
37.5°	1972.2	1926.1	1819.4	1676.7	1414.3	1162.0	1048.1	1072.6	1068.3	1048.1	938.5
40°	2125.0	2099.1	2041.4	1975.1	1807.9	1470.5	1257.1	1237.0	1238.4	1209.6	1081.3
42.5°	2211.5	2188.5	2166.8	2184.1	2135.1	2029.9	1559.9	1467.6	1459.0	1404.2	1247.1
45°	2215.9	2181.3	2207.2	2308.1	2386.0	2525.8	1954.9	1741.5	1745.9	1655.0	1453.2
47.5°	2050.1	2022.7	2097.6	2295.2	2553.2	2850.2	2414.8	2116.4	2096.2	1917.4	1662.3
50°	1722.8	1721.4	1820.8	2100.5	2553.2	3017.4	2907.9	2556.1	2534.5	2191.4	1852.6
52.5°	1363.8	1391.2	1459.0	1724.2	2318.2	3001.6	3271.2	3010.2	2949.7	2435.0	2011.1
55°	1061.1	1051.0	1133.2	1316.3	1838.1	2727.7	3389.4	3367.8	3317.3	2651.2	2151.0
57.5°	651.6	689.1	800.1	963.0	1337.9	2145.2	3219.3	3585.5	3555.2	2853.1	2296.6
60°	338.8	367.6	487.3	657.4	914.0	1375.4	2794.0	3635.9	3641.7	3016.0	2420.6
62.5°	213.4	211.9	266.7	461.3	588.2	772.7	2169.7	3457.1	3511.9	3141.4	2538.8
65°	160.0	161.5	183.1	305.6	399.3	403.7	1287.4	2990.0	3080.9	3174.6	2579.2
67.5°	148.5	149.9	160.0	200.4	299.9	269.6	566.6	2305.2	2432.1	2868.9	2423.5
70°	132.6	134.1	149.9	165.8	226.3	197.5	255.2	1388.3	1564.2	2081.8	1939.1
72.5°	103.8	106.7	125.4	157.1	168.7	149.9	177.3	614.2	716.5	1144.7	1110.1
75°	76.4	77.9	95.2	121.1	148.5	106.7	137.0	243.6	266.7	429.6	366.2
77.5°	53.3	53.3	66.3	90.8	124.0	75.0	98.0	131.2	134.1	160.0	105.2
80°	33.2	34.6	41.8	62.0	76.4	72.1	60.6	87.9	87.9	83.6	43.3
82.5°	18.7	20.2	28.8	41.8	51.9	49.0	38.9	50.5	51.9	53.3	24.5
85°	8.7	10.1	17.3	26.0	30.3	23.1	23.1	26.0	26.0	34.6	14.4
87.5°	1.4	1.4	8.7	11.5	10.1	11.5	11.5	14.4	14.4	17.3	7.2
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°	455.6	455.6	455.6	455.6	455.6	455.6	455.6	455.6	455.6	455.6	455.6
2.5°	454.1	454.1	454.1	452.7	452.7	451.2	448.4	448.4	448.4	448.4	449.8
5°	459.9	458.5	457.0	452.7	449.8	444.0	438.3	436.8	432.5	432.5	433.9
7.5°	467.1	467.1	462.8	455.6	448.4	438.3	428.2	421.0	413.8	412.3	410.9
10°	480.1	477.2	472.9	459.9	448.4	432.5	416.6	397.9	383.5	376.3	373.4
12.5°	490.2	488.7	480.1	465.7	446.9	422.4	386.4	343.1	308.5	289.8	289.8
15°	504.6	501.7	488.7	468.5	442.6	384.9	311.4	245.1	207.6	187.4	184.5
17.5°	519.0	513.2	497.4	470.0	423.9	317.2	217.7	157.1	131.2	121.1	118.2
20°	536.3	526.2	503.1	471.4	377.7	230.7	141.3	105.2	95.2	90.8	92.3
22.5°	559.4	542.1	508.9	462.8	308.5	149.9	99.5	85.1	79.3	75.0	75.0
25°	588.2	563.7	519.0	438.3	223.5	100.9	79.3	70.6	64.9	62.0	60.6
27.5°	614.2	583.9	529.1	395.0	142.7	79.3	66.3	59.1	53.3	51.9	50.5
30°	648.8	606.9	539.2	325.8	93.7	64.9	56.2	49.0	44.7	43.3	43.3
32.5°	707.9	651.6	557.9	248.0	70.6	56.2	47.6	41.8	38.9	37.5	37.5
35°	777.1	706.4	573.8	173.0	60.6	47.6	40.4	36.0	34.6	33.2	33.2
37.5°	849.1	771.3	576.7	109.6	53.3	41.8	36.0	33.2	30.3	30.3	30.3
40°	978.9	885.2	563.7	73.5	46.1	37.5	31.7	30.3	27.4	27.4	27.4
42.5°	1130.3	1023.6	530.5	59.1	41.8	33.2	30.3	27.4	24.5	24.5	23.1
45°	1326.3	1180.7	474.3	51.9	37.5	30.3	27.4	24.5	23.1	21.6	21.6
47.5°	1510.9	1359.5	421.0	46.1	34.6	28.8	24.5	21.6	20.2	20.2	20.2
50°	1686.8	1496.5	359.0	43.3	31.7	27.4	23.1	20.2	18.7	17.3	17.3
52.5°	1813.6	1604.6	301.3	38.9	28.8	24.5	21.6	18.7	15.9	14.4	14.4
55°	1954.9	1714.2	249.4	34.6	27.4	23.1	18.7	15.9	13.0	11.5	11.5
57.5°	2113.5	1820.8	201.8	31.7	26.0	20.2	15.9	13.0	10.1	8.7	8.7
60°	2270.6	1905.9	161.5	28.8	23.1	18.7	14.4	10.1	7.2	5.8	5.8
62.5°	2427.8	1963.6	124.0	26.0	21.6	15.9	11.5	7.2	4.3	2.9	2.9
65°	2492.7	1947.7	92.3	23.1	18.7	13.0	10.1	7.2	4.3	2.9	2.9
67.5°	2312.5	1751.6	64.9	23.1	17.3	13.0	8.7	5.8	2.9	1.4	1.4
70°	1805.0	1352.3	47.6	23.1	17.3	13.0	8.7	5.8	2.9	1.4	1.4
72.5°	1023.6	752.6	36.0	20.2	15.9	11.5	8.7	5.8	2.9	1.4	1.4
75°	364.7	242.2	27.4	18.7	14.4	10.1	8.7	5.8	2.9	1.4	1.4
77.5°	87.9	62.0	21.6	15.9	13.0	10.1	7.2	5.8	4.3	1.4	1.4
80°	36.0	26.0	17.3	13.0	10.1	8.7	7.2	5.8	2.9	1.4	1.4
82.5°	15.9	13.0	7.2	7.2	5.8	5.8	5.8	5.8	2.9	1.4	1.4
85°	7.2	5.8	2.9	2.9	1.4	1.4	1.4	2.9	2.9	1.4	1.4
87.5°	4.3	2.9	2.9	2.9	1.4	1.4	1.4	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)