

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: P572727

Luminaire Tested: **ARCH-S-PA2-110-727-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572727
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-PA2-110-727-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1105mA 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: 8639 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

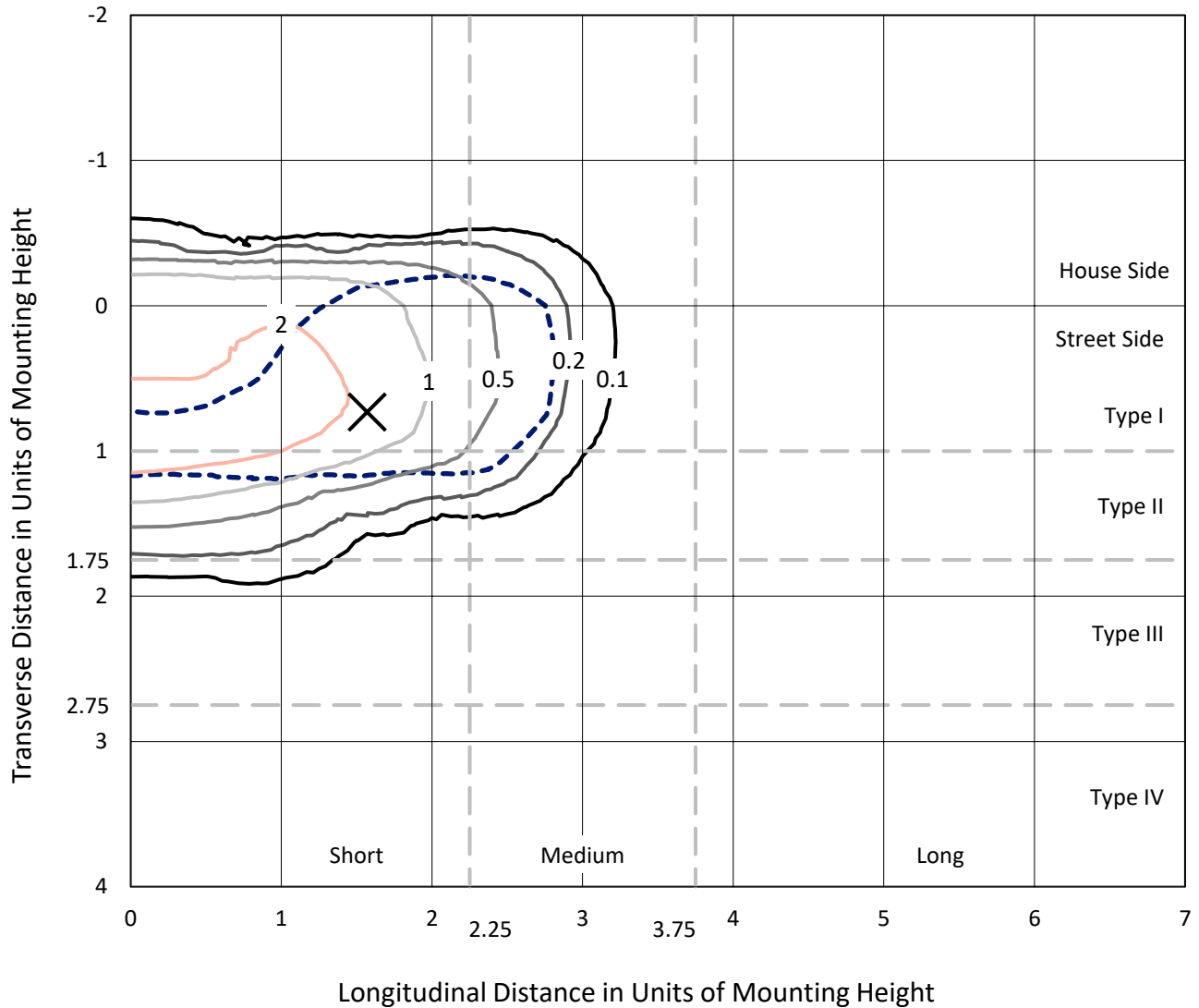
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

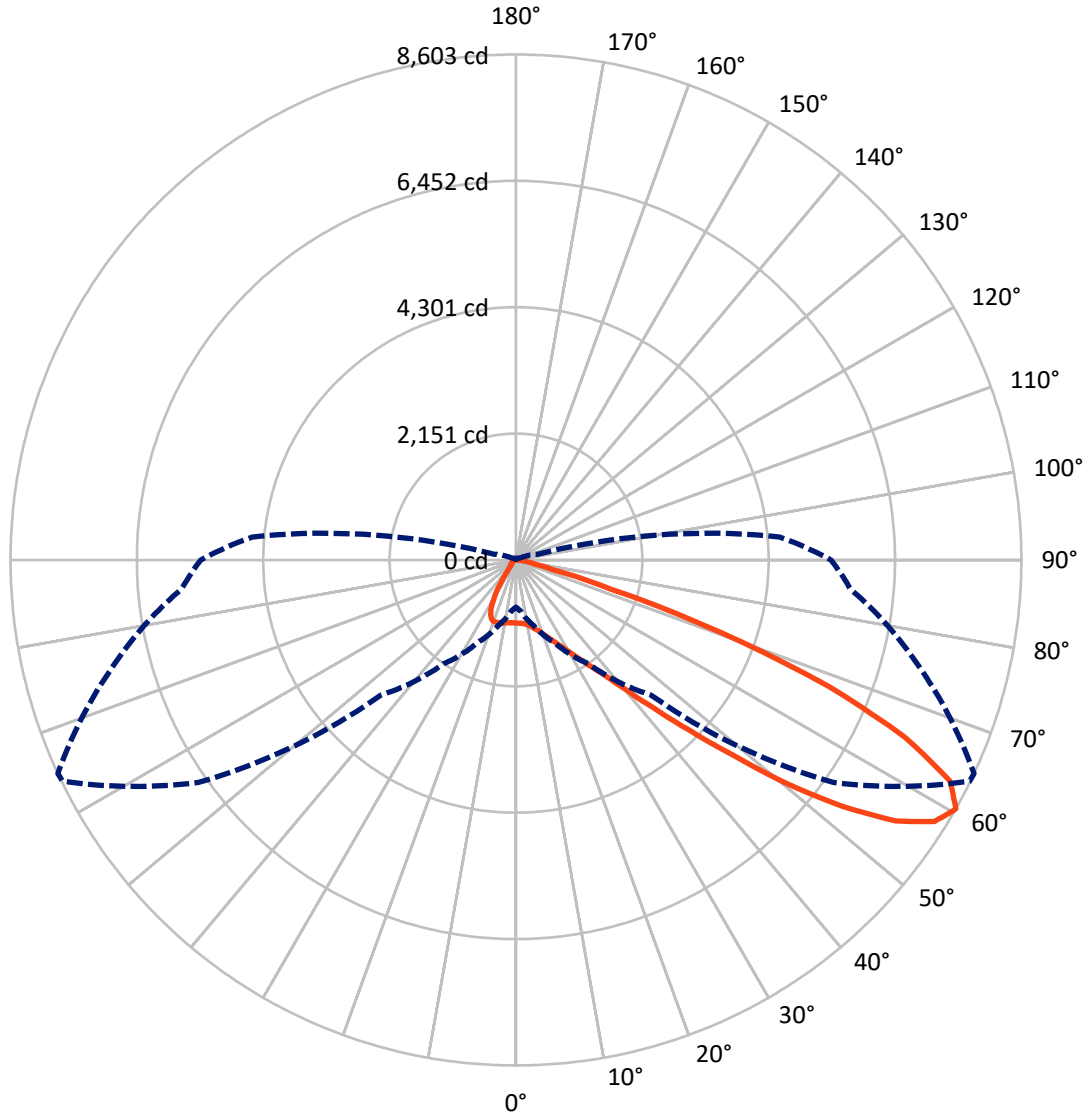
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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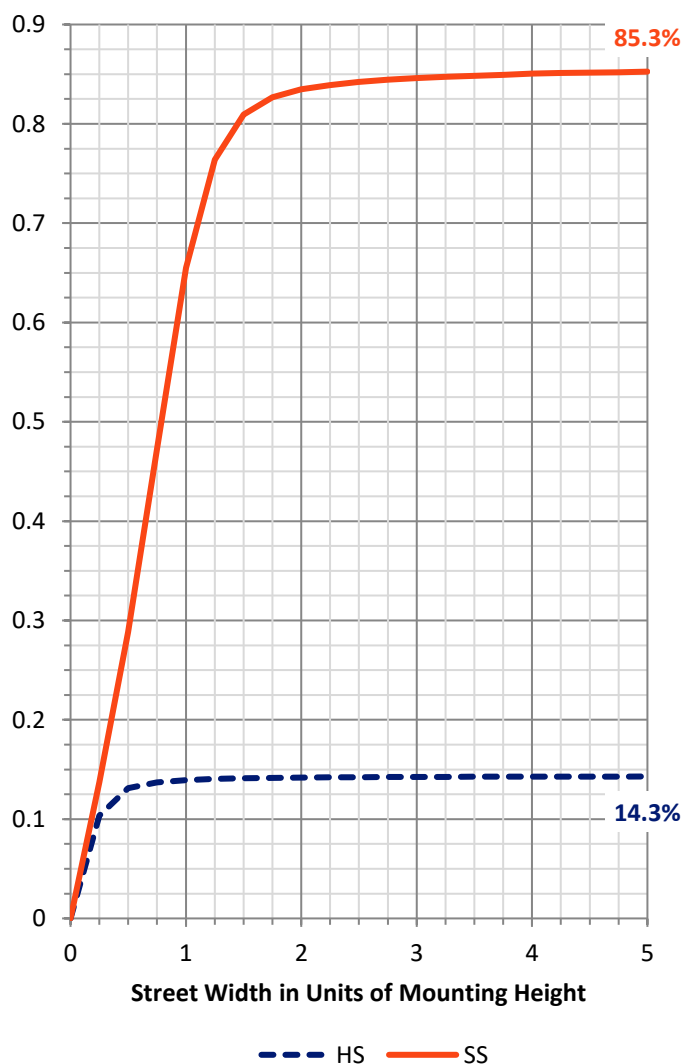
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1250.7	0.0	1250.7
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	7388.3	0.0	7388.3
	% Fixture	85.5	0.0	85.5
Total	Lumens	8639.0	0.0	8639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	1.2
10°-20°	288.6	3.3
20°-30°	490.2	5.7
30°-40°	1011.5	11.7
40°-50°	2034.2	23.5
50°-60°	2489.2	28.8
60°-70°	1761.0	20.4
70°-80°	424.4	4.9
80°-90°	38.3	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°	8639.0	100.0
0°-180°	8639.0	100.0

Coefficient of Utilization



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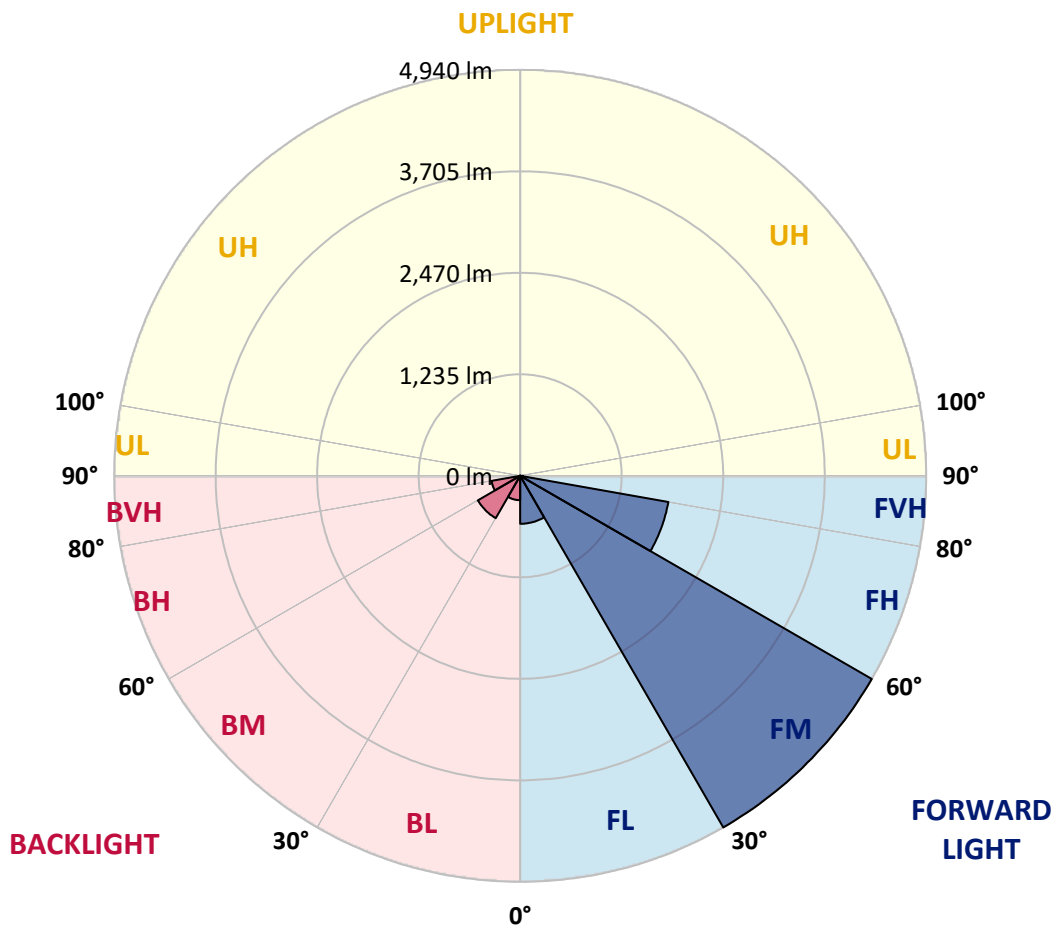
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.0	6.8			
FM (30°-60°)	4940.2	57.2			
FH (60°-80°)	1830.8	21.2			G2/5000
FVH (80°-90°)	33.3	0.4			G1/100
BL (0°-30°)	296.5	3.4	B1/500		
BM (30°-60°)	594.7	6.9	B1/1000		
BH (60°-80°)	354.5	4.1	B1/500		G1/500
BVH (80°-90°)	5.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2
2.5°	1079.6	1076.2	1076.2	1076.2	1079.6	1079.6	1083.0	1076.2	1076.2	1076.2	1076.2
5°	1072.8	1069.4	1069.4	1072.8	1076.2	1076.2	1083.0	1083.0	1083.0	1086.4	1086.4
7.5°	1086.4	1079.6	1079.6	1083.0	1086.4	1086.4	1093.2	1096.6	1096.6	1103.4	1106.9
10°	1103.4	1100.0	1100.0	1106.9	1113.7	1113.7	1123.9	1123.9	1123.9	1130.7	1134.1
12.5°	1127.3	1123.9	1123.9	1134.1	1144.3	1151.1	1157.9	1161.3	1164.8	1164.8	1164.8
15°	1161.3	1157.9	1157.9	1168.2	1181.8	1198.8	1209.0	1209.0	1215.8	1212.4	1198.8
17.5°	1209.0	1205.6	1209.0	1215.8	1232.9	1249.9	1270.3	1273.7	1270.3	1263.5	1243.1
20°	1287.4	1277.1	1284.0	1301.0	1301.0	1311.2	1338.4	1348.7	1352.1	1331.6	1294.2
22.5°	1369.1	1369.1	1375.9	1396.3	1382.7	1396.3	1420.2	1437.2	1444.0	1427.0	1365.7
25°	1522.4	1529.2	1518.9	1512.1	1478.1	1484.9	1515.5	1549.6	1549.6	1536.0	1447.4
27.5°	1859.5	1852.7	1781.2	1682.4	1593.9	1600.7	1631.3	1675.6	1679.0	1648.4	1529.2
30°	2343.1	2349.9	2210.3	1985.5	1791.4	1740.3	1774.4	1825.5	1832.3	1781.2	1634.7
32.5°	3099.2	3041.3	2782.5	2482.8	2118.4	1934.4	1948.1	2002.6	2023.0	1978.7	1801.6
35°	4076.6	3940.4	3552.2	3180.9	2653.0	2281.8	2176.2	2234.1	2244.4	2220.5	2009.4
37.5°	4659.0	4550.0	4298.0	3960.8	3341.0	2745.0	2475.9	2533.8	2523.6	2475.9	2217.1
40°	5020.0	4958.7	4822.5	4665.8	4270.8	3473.8	2969.8	2922.1	2925.5	2857.4	2554.3
42.5°	5224.4	5169.9	5118.8	5159.6	5043.9	4795.2	3685.0	3467.0	3446.6	3317.2	2945.9
45°	5234.6	5152.8	5214.1	5452.5	5636.4	5966.8	4618.1	4114.1	4124.3	3909.8	3433.0
47.5°	4842.9	4778.2	4955.3	5421.9	6031.5	6733.1	5704.6	4999.6	4951.9	4529.6	3926.8
50°	4069.8	4066.4	4301.4	4962.1	6031.5	7128.1	6869.3	6038.3	5987.2	5176.7	4376.3
52.5°	3221.8	3286.5	3446.6	4073.2	5476.4	7090.7	7727.6	7111.1	6968.1	5752.2	4751.0
55°	2506.6	2482.8	2676.9	3109.4	4342.3	6443.6	8006.8	7955.7	7836.5	6263.1	5081.3
57.5°	1539.4	1627.9	1890.2	2275.0	3160.5	5067.7	7604.9	8470.0	8398.5	6739.9	5425.3
60°	800.3	868.5	1151.1	1553.0	2159.2	3249.0	6600.3	8589.2	8602.8	7124.7	5718.2
62.5°	504.0	500.6	630.1	1089.8	1389.5	1825.5	5125.6	8166.9	8296.3	7421.0	5997.5
65°	378.0	381.4	432.5	722.0	943.4	953.6	3041.3	7063.4	7278.0	7499.4	6092.8
67.5°	350.8	354.2	378.0	473.4	708.4	636.9	1338.4	5445.7	5745.4	6777.4	5725.0
70°	313.3	316.7	354.2	391.7	534.7	466.6	602.8	3279.7	3695.2	4917.8	4580.7
72.5°	245.2	252.0	296.3	371.2	398.5	354.2	418.9	1450.8	1692.6	2704.1	2622.4
75°	180.5	183.9	224.8	286.1	350.8	252.0	323.5	575.6	630.1	1014.9	865.0
77.5°	126.0	126.0	156.7	214.6	292.9	177.1	231.6	309.9	316.7	378.0	248.6
80°	78.3	81.7	98.8	146.4	180.5	170.3	143.0	207.7	207.7	197.5	102.2
82.5°	44.3	47.7	68.1	98.8	122.6	115.8	92.0	119.2	122.6	126.0	57.9
85°	20.4	23.8	40.9	61.3	71.5	54.5	54.5	61.3	61.3	81.7	34.1
87.5°	3.4	3.4	20.4	27.2	23.8	27.2	27.2	34.1	34.1	40.9	17.0
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°	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2	1076.2
2.5°	1072.8	1072.8	1072.8	1069.4	1069.4	1066.0	1059.2	1059.2	1059.2	1059.2	1062.6
5°	1086.4	1083.0	1079.6	1069.4	1062.6	1049.0	1035.3	1031.9	1021.7	1021.7	1025.1
7.5°	1103.4	1103.4	1093.2	1076.2	1059.2	1035.3	1011.5	994.5	977.4	974.0	970.6
10°	1134.1	1127.3	1117.1	1086.4	1059.2	1021.7	984.2	940.0	905.9	888.9	882.1
12.5°	1157.9	1154.5	1134.1	1100.0	1055.8	997.9	912.7	810.6	728.8	684.5	684.5
15°	1192.0	1185.2	1154.5	1106.9	1045.6	909.3	735.6	579.0	490.4	442.7	435.9
17.5°	1226.1	1212.4	1175.0	1110.3	1001.3	749.3	514.3	371.2	309.9	286.1	279.3
20°	1266.9	1243.1	1188.6	1113.7	892.3	544.9	333.8	248.6	224.8	214.6	218.0
22.5°	1321.4	1280.5	1202.2	1093.2	728.8	354.2	235.0	200.9	187.3	177.1	177.1
25°	1389.5	1331.6	1226.1	1035.3	527.9	238.4	187.3	166.9	153.3	146.4	143.0
27.5°	1450.8	1379.3	1249.9	933.2	337.2	187.3	156.7	139.6	126.0	122.6	119.2
30°	1532.6	1433.8	1273.7	769.7	221.4	153.3	132.8	115.8	105.6	102.2	102.2
32.5°	1672.2	1539.4	1318.0	585.8	166.9	132.8	112.4	98.8	92.0	88.5	88.5
35°	1835.7	1668.8	1355.5	408.7	143.0	112.4	95.4	85.1	81.7	78.3	78.3
37.5°	2006.0	1822.1	1362.3	258.8	126.0	98.8	85.1	78.3	71.5	71.5	71.5
40°	2312.5	2091.1	1331.6	173.7	109.0	88.5	74.9	71.5	64.7	64.7	64.7
42.5°	2670.1	2418.1	1253.3	139.6	98.8	78.3	71.5	64.7	57.9	57.9	54.5
45°	3133.3	2789.3	1120.5	122.6	88.5	71.5	64.7	57.9	54.5	51.1	51.1
47.5°	3569.2	3211.6	994.5	109.0	81.7	68.1	57.9	51.1	47.7	47.7	47.7
50°	3984.7	3535.1	848.0	102.2	74.9	64.7	54.5	47.7	44.3	40.9	40.9
52.5°	4284.4	3790.6	711.8	92.0	68.1	57.9	51.1	44.3	37.5	34.1	34.1
55°	4618.1	4049.4	589.2	81.7	64.7	54.5	44.3	37.5	30.7	27.2	27.2
57.5°	4992.8	4301.4	476.8	74.9	61.3	47.7	37.5	30.7	23.8	20.4	20.4
60°	5364.0	4502.3	381.4	68.1	54.5	44.3	34.1	23.8	17.0	13.6	13.6
62.5°	5735.2	4638.6	292.9	61.3	51.1	37.5	27.2	17.0	10.2	6.8	6.8
65°	5888.5	4601.1	218.0	54.5	44.3	30.7	23.8	17.0	10.2	6.8	6.8
67.5°	5462.8	4137.9	153.3	54.5	40.9	30.7	20.4	13.6	6.8	3.4	3.4
70°	4263.9	3194.6	112.4	54.5	40.9	30.7	20.4	13.6	6.8	3.4	3.4
72.5°	2418.1	1777.8	85.1	47.7	37.5	27.2	20.4	13.6	6.8	3.4	3.4
75°	861.6	572.2	64.7	44.3	34.1	23.8	20.4	13.6	6.8	3.4	3.4
77.5°	207.7	146.4	51.1	37.5	30.7	23.8	17.0	13.6	10.2	3.4	3.4
80°	85.1	61.3	40.9	30.7	23.8	20.4	17.0	13.6	6.8	3.4	3.4
82.5°	37.5	30.7	17.0	17.0	13.6	13.6	13.6	13.6	6.8	3.4	3.4
85°	17.0	13.6	6.8	6.8	3.4	3.4	3.4	6.8	6.8	3.4	3.4
87.5°	10.2	6.8	6.8	6.8	3.4	3.4	3.4	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)