

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: P322787

Luminaire Tested: **GAN-SA3A-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8623 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

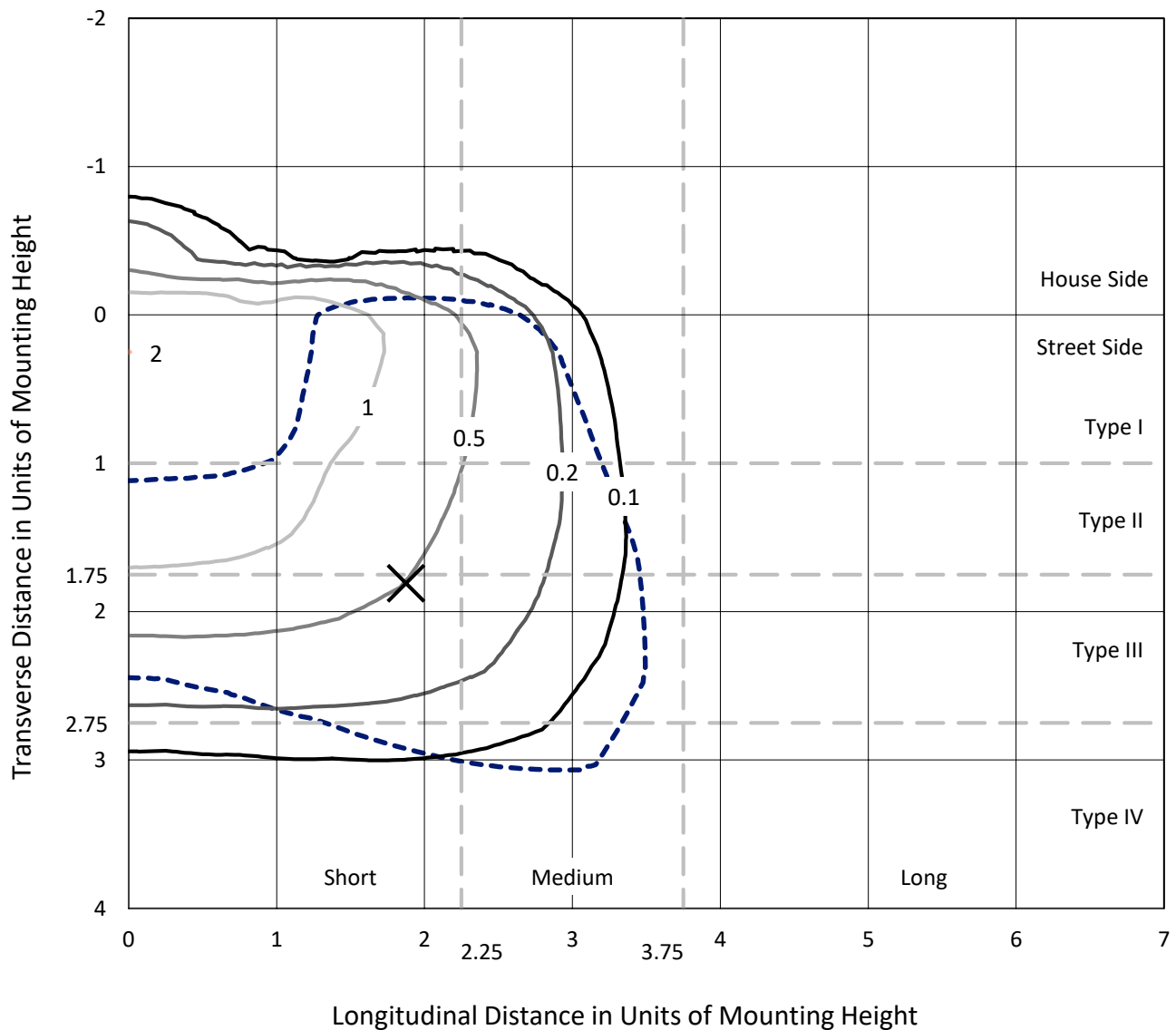
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

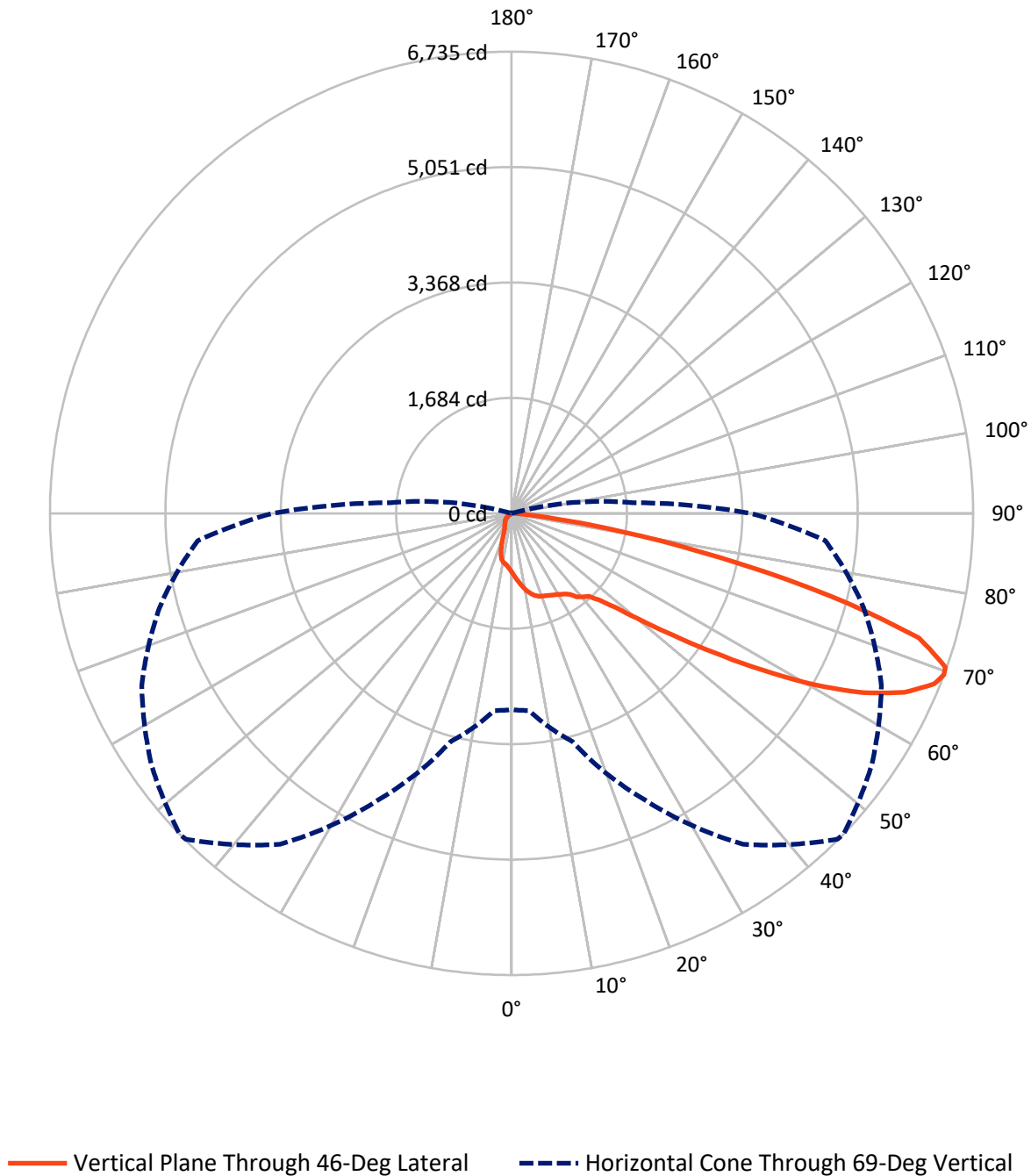
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	885.0	0.0	885.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	7738.0	0.0	7738.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	8623.0	0.0	8623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	1.0
10°-20°	260.9	3.0
20°-30°	410.3	4.8
30°-40°	588.4	6.8
40°-50°	1016.9	11.8
50°-60°	2009.0	23.3
60°-70°	2807.8	32.6
70°-80°	1356.5	15.7
80°-90°	87.2	1.0
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°	8623.0	100.0
0°-180°	8623.0	100.0

Coefficient of Utilization



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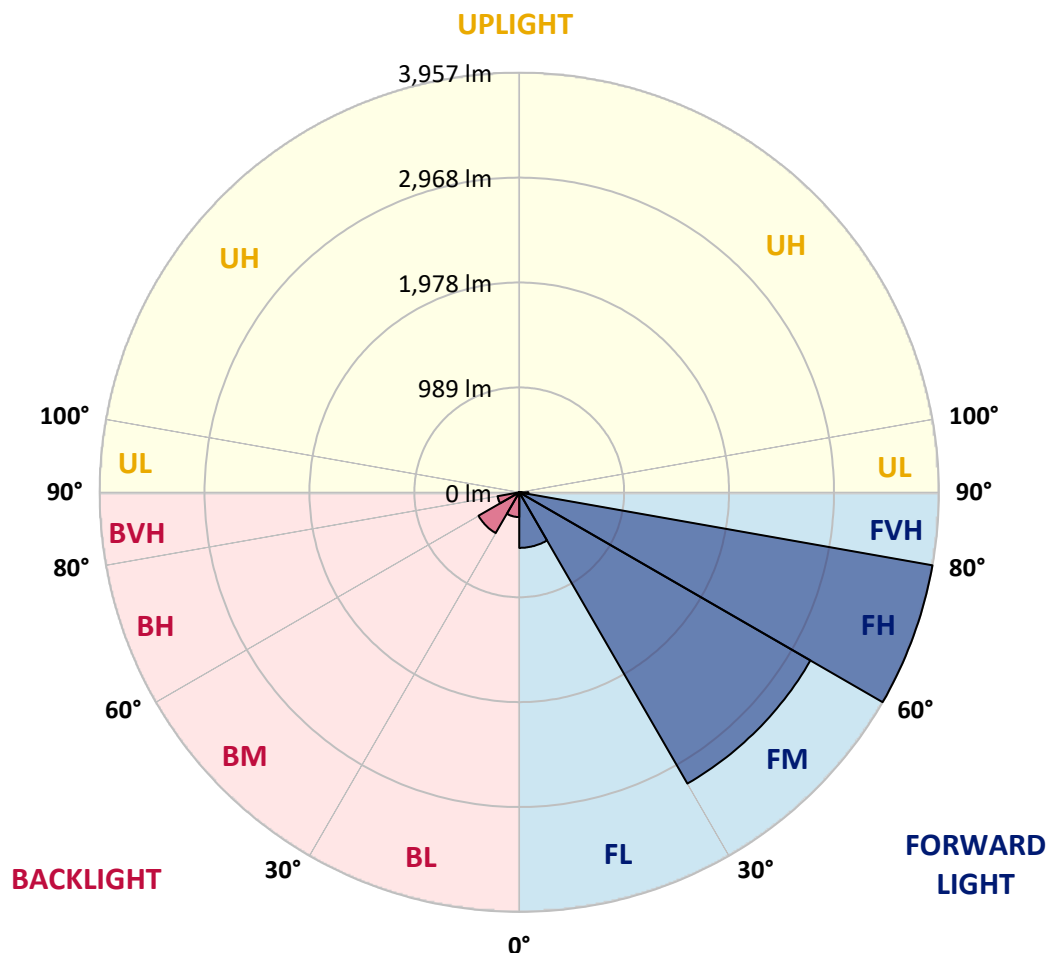
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	524.0	6.1			
FM	(30°-60°)	3170.9	36.8			
FH	(60°-80°)	3956.8	45.9			G2/5000
FVH	(80°-90°)	86.5	1.0			G1/100
BL	(0°-30°)	233.2	2.7	B1/500		
BM	(30°-60°)	443.5	5.1	B1/1000		
BH	(60°-80°)	207.5	2.4	B1/500		G1/500
BVH	(80°-90°)	0.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0
2.5°	959.8	958.6	952.9	950.5	936.8	928.7	925.4	915.3	900.8	886.2	870.1
5°	1069.0	1068.6	1058.1	1047.9	1022.1	997.8	993.4	969.9	937.2	906.4	875.7
7.5°	1180.6	1175.3	1164.8	1145.4	1107.8	1069.0	1065.3	1032.2	985.7	941.2	897.1
10°	1275.2	1271.9	1258.2	1228.7	1184.6	1140.5	1136.1	1095.3	1042.7	988.1	931.9
12.5°	1348.7	1346.3	1328.1	1291.3	1244.4	1198.8	1192.7	1156.3	1100.1	1039.1	972.7
15°	1393.6	1392.4	1370.2	1331.0	1284.9	1245.2	1240.0	1208.1	1155.9	1092.0	1017.2
17.5°	1404.1	1404.5	1381.5	1341.9	1303.9	1275.6	1271.5	1247.3	1203.6	1140.1	1061.7
20°	1380.7	1385.5	1364.9	1330.6	1307.1	1292.1	1288.9	1274.4	1237.6	1177.7	1097.3
22.5°	1347.5	1350.0	1335.8	1312.8	1303.1	1305.9	1304.3	1296.2	1265.1	1210.1	1132.4
25°	1327.3	1327.3	1318.8	1299.4	1305.9	1323.3	1323.7	1322.1	1297.4	1249.7	1175.3
27.5°	1326.5	1324.1	1314.4	1299.8	1317.6	1344.3	1345.9	1356.8	1341.5	1297.8	1228.7
30°	1358.9	1356.0	1335.4	1316.4	1339.0	1367.8	1371.8	1395.6	1388.0	1350.0	1288.1
32.5°	1434.5	1424.4	1378.7	1347.5	1364.5	1398.9	1404.1	1442.1	1454.3	1414.2	1345.5
35°	1538.0	1506.0	1440.1	1406.6	1408.2	1444.2	1449.0	1504.8	1540.8	1473.3	1390.0
37.5°	1680.7	1664.9	1557.8	1468.0	1475.3	1529.9	1544.0	1604.7	1594.6	1505.6	1440.5
40°	1993.6	1968.9	1854.9	1640.3	1539.6	1599.4	1603.9	1636.2	1637.0	1578.8	1545.6
42.5°	2419.7	2409.6	2289.6	1952.8	1666.1	1645.9	1654.0	1708.6	1769.6	1733.2	1731.6
45°	2891.6	2886.3	2759.0	2367.6	1922.0	1798.3	1808.4	1881.6	1998.5	2006.5	2057.9
47.5°	3271.2	3268.8	3195.6	2830.5	2313.8	2056.7	2059.9	2137.5	2342.9	2444.4	2526.5
50°	3617.3	3629.0	3571.2	3331.4	2847.5	2461.4	2453.7	2505.5	2835.4	3001.5	3103.4
52.5°	4098.4	4115.0	3952.9	3798.8	3407.5	2963.5	2957.5	3011.6	3427.3	3551.8	3570.0
55°	4523.3	4495.0	4366.9	4322.4	4090.3	3583.7	3582.1	3629.8	3999.8	4052.7	4086.3
57.5°	4710.9	4700.0	4761.9	4863.7	4805.5	4316.7	4313.1	4276.7	4512.0	4517.7	4620.8
60°	4829.4	4842.7	5032.3	5346.5	5491.6	5105.5	5082.1	4860.1	5001.2	4988.7	5099.1
62.5°	4740.4	4766.7	5107.9	5631.5	6005.1	5794.0	5760.9	5394.6	5419.3	5376.0	5478.7
65°	4268.2	4309.0	4868.2	5577.7	6259.8	6332.2	6298.6	5866.4	5751.2	5680.0	5623.0
67.5°	3465.7	3489.9	4073.7	5110.0	6145.0	6653.2	6646.3	6280.0	6001.9	5628.7	5186.4
69°	2864.1	2887.9	3449.9	4617.5	5892.3	6721.9	6735.3	6412.6	5954.1	5316.6	4595.3
70°	2425.8	2451.3	2974.9	4195.4	5599.2	6690.0	6713.8	6400.1	5817.5	4955.1	4076.6
72.5°	1272.3	1294.2	1831.5	2890.4	4564.6	6143.0	6215.3	5859.1	4931.3	3598.7	2410.4
75°	399.9	412.4	715.2	1510.9	3125.3	4776.4	4793.0	4596.1	3501.7	1979.5	1003.9
77.5°	152.4	148.8	238.1	556.7	1580.0	3007.6	3109.1	2872.2	1837.6	699.8	231.7
80°	82.1	82.5	123.7	230.5	676.0	1545.6	1631.4	1392.0	652.9	218.3	53.4
82.5°	35.6	37.2	69.5	122.1	310.5	570.1	612.9	510.2	249.5	146.8	19.8
85°	7.7	8.5	33.6	66.3	126.5	160.1	167.8	165.4	158.9	114.0	7.7
87.5°	0.0	0.0	15.0	23.9	31.9	36.4	31.9	41.6	87.7	76.8	4.0
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°	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0	864.0
2.5°	864.8	857.5	845.0	831.2	821.5	811.4	803.3	799.7	795.7	792.8	796.5
5°	863.2	849.0	824.8	801.3	784.3	770.6	759.3	754.8	750.4	747.1	746.7
7.5°	877.3	857.5	820.3	786.0	759.7	741.1	725.7	719.3	714.0	711.6	709.5
10°	904.4	879.0	829.2	784.3	750.4	718.8	685.7	660.2	643.6	636.0	633.1
12.5°	939.6	907.7	846.2	792.8	743.5	682.9	612.5	551.9	512.7	499.7	492.0
15°	980.8	941.2	868.4	803.8	718.4	607.7	488.4	409.2	372.8	365.5	357.4
17.5°	1020.5	976.8	895.1	805.8	663.5	485.6	357.8	304.0	289.9	294.7	295.9
20°	1055.2	1012.0	921.4	788.0	563.6	364.3	276.9	263.6	268.9	278.2	279.8
22.5°	1090.4	1045.9	945.7	741.1	435.8	276.5	249.5	252.7	257.9	267.2	268.9
25°	1133.3	1087.2	968.3	655.0	327.1	235.3	236.9	241.8	247.0	255.5	256.3
27.5°	1182.6	1139.3	983.3	543.0	242.6	216.3	221.6	228.8	234.1	242.2	243.8
30°	1248.1	1208.1	988.1	426.9	203.4	199.3	201.7	210.6	218.3	225.6	226.8
32.5°	1309.5	1276.0	971.9	322.2	188.4	183.6	183.6	188.8	197.7	204.6	206.2
35°	1366.1	1344.3	920.2	235.7	177.1	169.0	165.0	165.0	170.6	176.3	177.9
37.5°	1440.9	1440.1	836.5	188.0	166.2	156.9	148.4	141.9	139.9	141.1	141.9
40°	1569.1	1570.3	727.3	168.6	156.9	144.3	131.4	119.7	108.8	105.1	104.7
42.5°	1769.2	1751.0	612.9	159.3	148.8	131.4	112.0	96.2	79.2	74.0	73.6
45°	2087.0	1979.1	491.6	150.8	140.3	116.8	92.6	71.2	57.4	53.4	53.4
47.5°	2549.9	2278.6	380.9	141.5	129.0	100.3	69.9	51.3	42.0	40.0	40.4
50°	3028.6	2572.2	291.9	129.8	115.2	82.9	51.8	37.2	31.9	31.9	32.3
52.5°	3453.1	2787.3	227.6	117.2	98.2	65.1	39.2	29.1	26.7	26.3	26.7
55°	3850.6	2925.9	174.3	102.7	78.0	48.5	29.9	23.9	22.2	21.4	21.0
57.5°	4233.8	2994.7	130.6	82.9	56.6	35.2	23.9	20.2	18.6	17.4	17.0
60°	4489.0	2938.9	89.8	61.0	39.2	25.5	19.8	17.4	15.4	14.2	13.7
62.5°	4632.9	2786.4	57.8	44.1	27.9	19.0	15.8	14.6	11.7	10.5	10.5
65°	4574.7	2535.0	40.4	31.5	20.2	14.2	11.7	11.7	8.5	6.9	6.5
67.5°	4053.9	2141.6	30.7	23.4	14.6	10.5	8.9	10.1	5.3	3.2	3.2
69°	3487.9	1774.9	26.3	19.4	12.1	8.5	7.7	9.3	3.6	2.4	2.0
70°	3031.5	1531.1	23.9	17.0	10.1	7.3	6.9	8.9	3.6	2.0	1.6
72.5°	1813.7	853.9	18.2	12.1	6.5	5.7	5.7	10.1	3.6	2.0	1.6
75°	733.0	300.8	13.3	8.5	4.9	4.9	6.9	12.9	3.2	1.6	1.2
77.5°	166.2	65.9	7.7	5.3	3.2	4.9	8.1	10.1	2.0	0.8	0.0
80°	40.4	16.2	4.9	3.2	2.0	3.6	6.1	5.7	0.4	0.0	0.0
82.5°	13.3	5.7	2.0	1.6	0.4	1.2	2.8	1.6	0.0	0.0	0.0
85°	5.7	3.2	0.8	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
87.5°	3.6	1.2	0.0	0.0	0.0	0.0	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)