

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: P322307

Luminaire Tested: **GAN-SA3A-760-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10368 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - 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



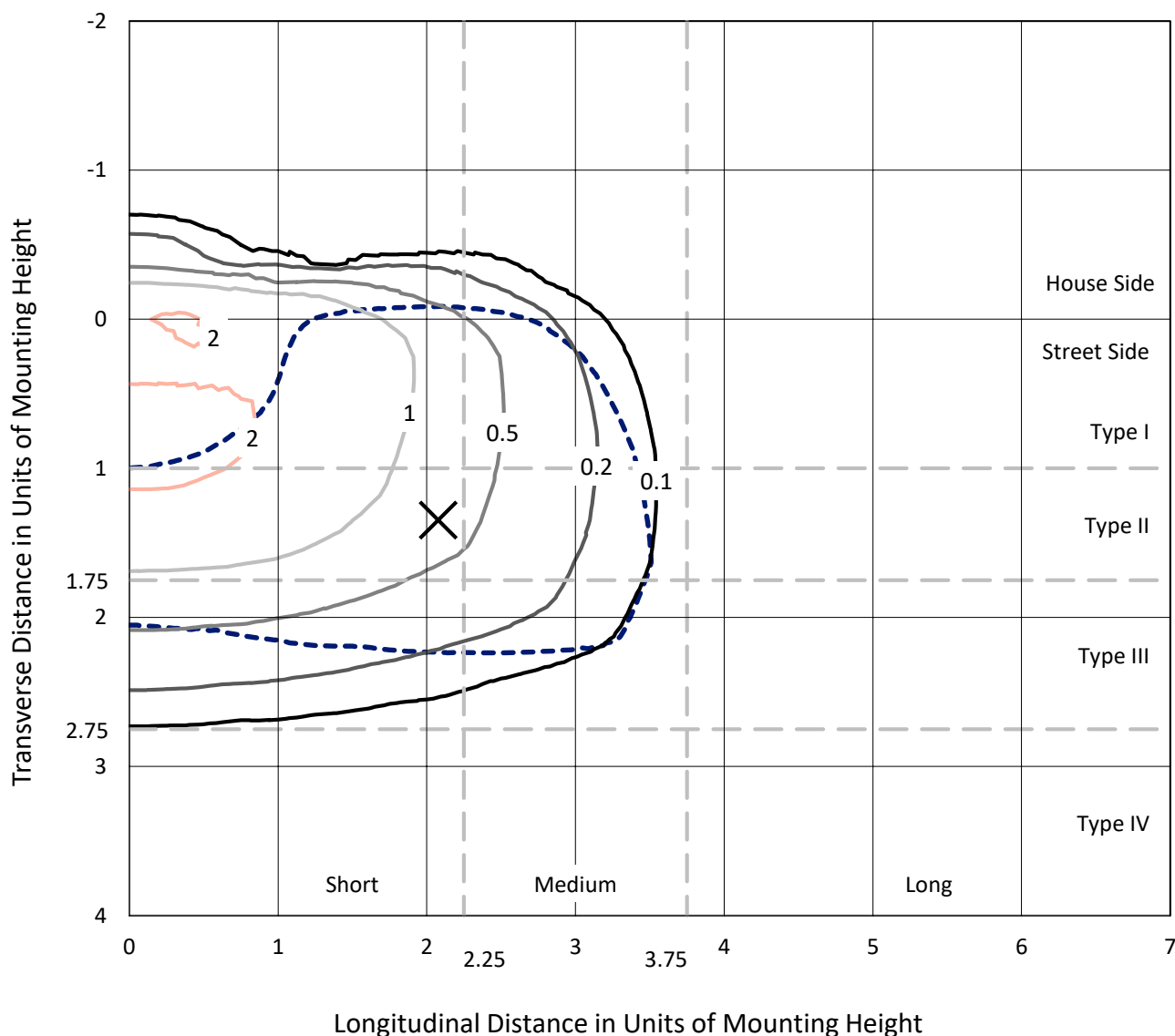
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



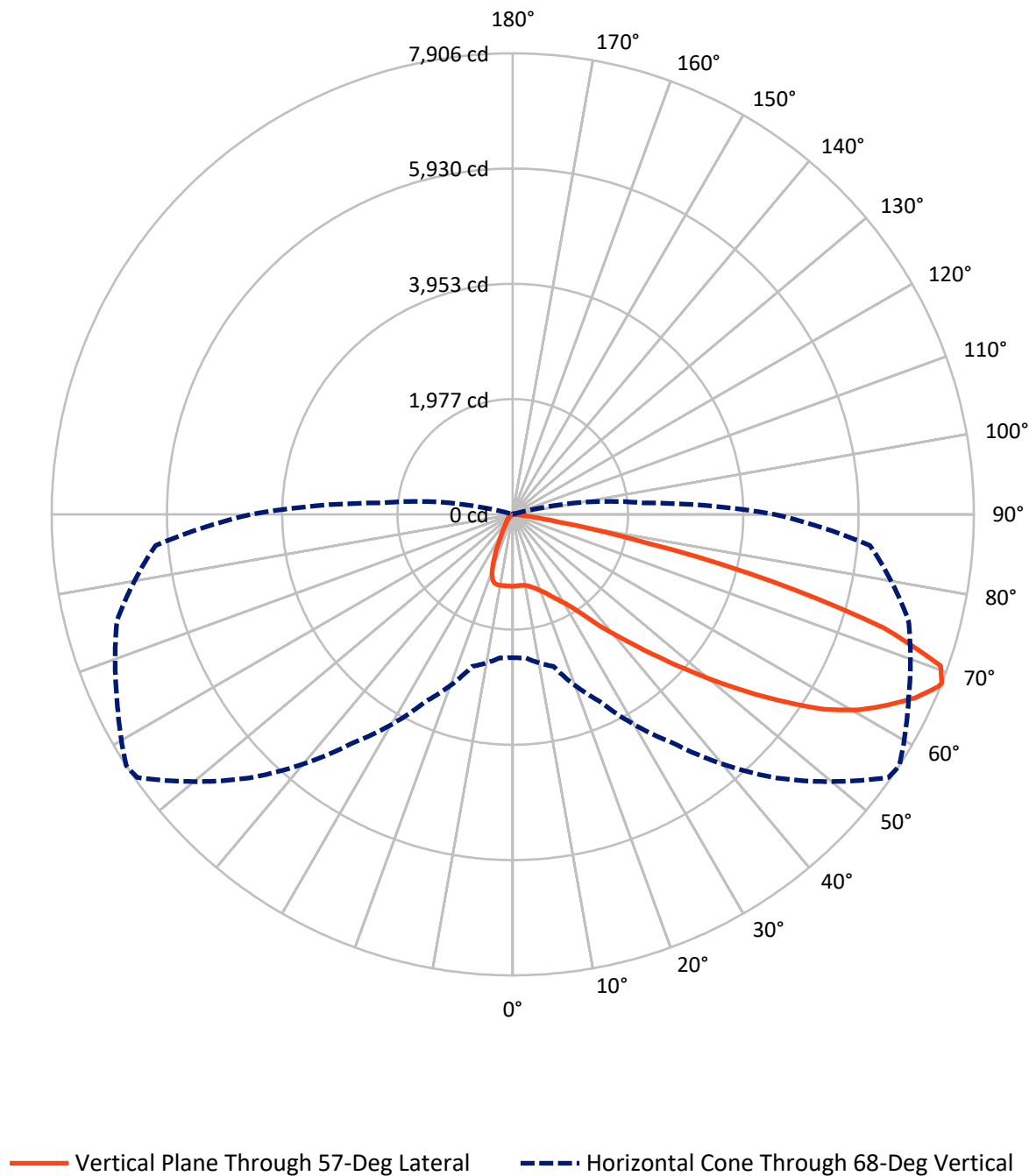
Based on 25 foot mounting height. Maximum calculated value = 2.5 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1136.9	0.0	1136.9
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	9231.1	0.0	9231.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	10368.0	0.0	10368.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	1.1
10°-20°	319.5	3.1
20°-30°	551.2	5.3
30°-40°	951.3	9.2
40°-50°	1627.2	15.7
50°-60°	2603.3	25.1
60°-70°	3007.9	29.0
70°-80°	1149.3	11.1
80°-90°	43.1	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°	10368.0	100.0
0°-180°	10368.0	100.0

Coefficient of Utilization



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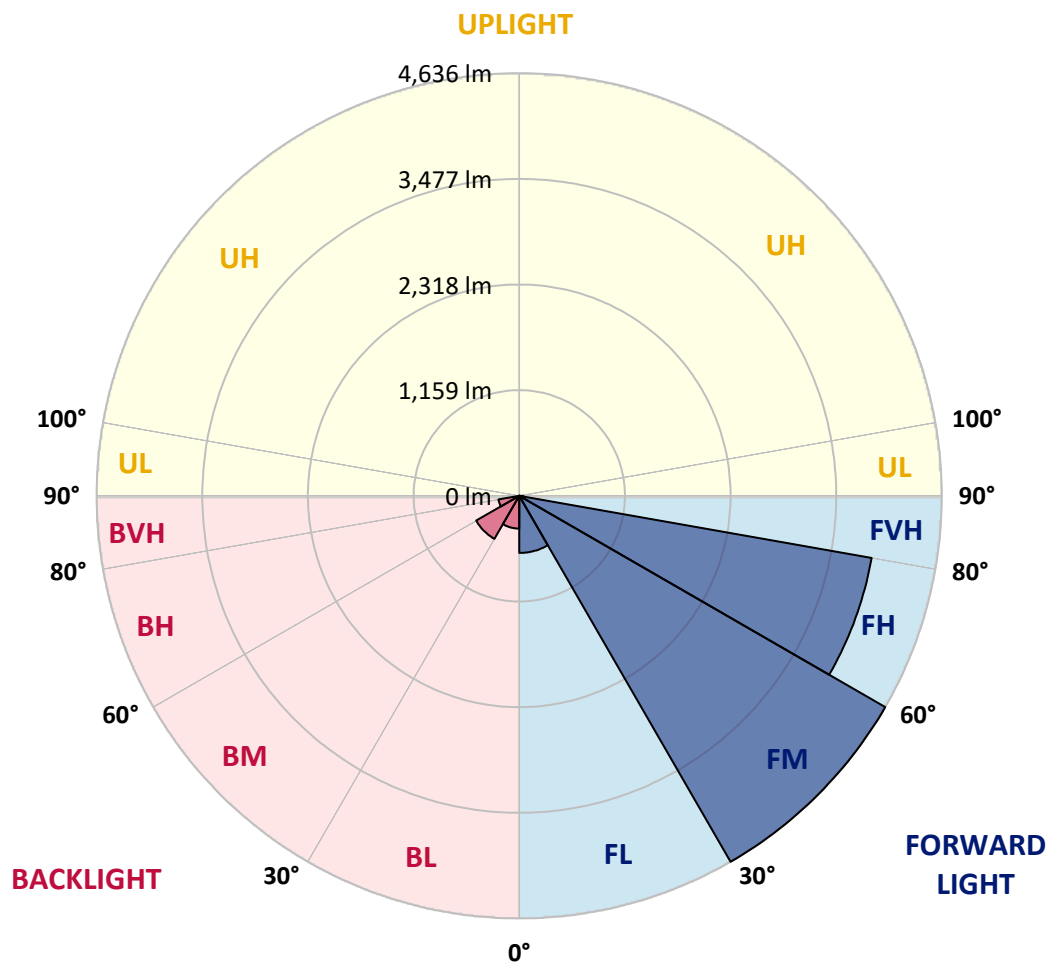
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	626.6	6.0			
FM	(30°-60°)	4636.5	44.7			
FH	(60°-80°)	3925.7	37.9			G2/5000
FVH	(80°-90°)	42.3	0.4			G1/100
BL	(0°-30°)	359.3	3.5	B1/500		
BM	(30°-60°)	545.3	5.3	B1/1000		
BH	(60°-80°)	231.5	2.2	B1/500		G1/500
BVH	(80°-90°)	0.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1232.0	1232.0	1232.0	1232.0	1232.0	1232.0	1232.0	1232.0	1232.0	1232.0	1232.0
2.5°	1203.1	1208.5	1212.4	1214.8	1217.8	1224.1	1226.1	1229.1	1230.5	1230.5	1234.0
5°	1155.5	1161.4	1169.7	1176.6	1190.3	1208.0	1220.7	1225.6	1234.4	1242.3	1246.7
7.5°	1111.4	1118.3	1128.1	1144.2	1167.8	1196.2	1222.7	1229.5	1246.7	1263.4	1271.7
10°	1083.0	1088.3	1101.1	1124.1	1155.0	1194.7	1232.0	1240.3	1269.7	1297.7	1313.4
12.5°	1073.2	1078.1	1091.3	1117.3	1155.5	1202.1	1253.6	1265.8	1309.0	1349.7	1371.7
15°	1087.4	1088.3	1102.6	1127.1	1164.8	1220.2	1289.4	1304.1	1358.5	1411.4	1438.9
17.5°	1142.3	1137.9	1145.2	1156.0	1185.9	1244.2	1327.1	1349.2	1421.7	1484.0	1510.0
20°	1279.5	1279.5	1262.9	1233.5	1234.0	1281.5	1378.1	1403.1	1491.8	1563.9	1587.4
22.5°	1514.4	1510.0	1476.6	1404.6	1338.4	1345.7	1440.3	1472.7	1576.1	1653.1	1661.0
25°	1796.8	1791.4	1739.9	1638.4	1523.7	1449.7	1524.7	1561.9	1676.6	1744.8	1728.6
27.5°	2095.8	2091.4	2040.4	1914.4	1751.2	1615.4	1625.2	1660.5	1779.1	1846.3	1794.8
30°	2385.5	2387.0	2336.5	2207.1	2022.3	1826.7	1752.6	1773.2	1878.6	1946.8	1873.2
32.5°	2661.1	2663.0	2619.4	2474.8	2302.2	2072.3	1929.1	1923.7	1994.3	2061.5	1977.2
35°	2906.7	2911.6	2881.7	2769.4	2586.5	2345.8	2158.1	2145.3	2158.6	2234.5	2136.5
37.5°	3143.5	3146.4	3123.9	3029.2	2876.3	2646.4	2447.3	2429.2	2400.7	2459.1	2346.8
40°	3402.8	3395.5	3369.5	3283.7	3152.3	2978.3	2758.1	2726.8	2677.2	2729.2	2623.3
42.5°	3644.0	3635.7	3640.1	3543.0	3432.2	3319.5	3120.4	3066.5	3037.6	3097.4	2962.6
45°	3945.5	3941.1	3955.8	3871.5	3781.8	3699.9	3535.7	3476.8	3464.1	3534.2	3372.9
47.5°	4243.1	4253.9	4299.5	4263.7	4227.4	4155.3	3975.4	3948.9	3956.8	4041.6	3805.8
50°	4491.2	4503.9	4628.9	4670.1	4722.6	4680.4	4500.0	4483.8	4514.7	4591.2	4271.5
52.5°	4670.6	4696.6	4852.0	5041.7	5232.9	5261.3	5081.4	5066.7	5108.4	5120.1	4631.4
55°	4795.1	4818.2	4994.2	5341.2	5730.5	5853.1	5741.3	5684.4	5676.6	5560.4	5009.8
57.5°	4817.2	4814.7	5067.7	5534.9	6120.7	6436.9	6366.4	6310.5	6149.7	5967.3	5443.7
60°	4692.6	4706.9	5000.5	5602.1	6365.9	6878.7	6884.1	6811.5	6561.0	6362.9	5864.3
62.5°	4309.3	4367.1	4663.7	5426.1	6362.9	7056.6	7263.5	7208.1	6908.6	6687.0	6290.9
65°	3687.6	3708.2	3991.1	4823.1	5933.0	6982.1	7605.2	7584.6	7221.8	7001.7	6510.0
67.5°	2692.9	2648.3	2945.4	3797.9	5023.1	6547.7	7850.3	7876.3	7463.5	7066.4	6276.6
68°	2457.6	2470.8	2702.2	3544.5	4784.8	6394.3	7866.5	7906.2	7487.5	7024.3	6149.2
70°	1464.9	1490.4	1696.7	2440.5	3640.1	5526.1	7692.0	7782.7	7344.4	6589.4	5318.7
72.5°	374.1	404.5	599.6	1092.3	2079.1	3893.5	6493.3	6646.8	6376.6	5345.7	3590.6
75°	153.9	161.8	214.2	359.8	774.6	1754.1	4279.9	4608.3	4420.6	3200.3	1622.7
77.5°	106.4	111.8	137.8	199.5	335.3	594.7	2098.3	2335.5	2104.1	1092.3	354.0
80°	76.5	80.9	98.5	132.9	192.7	212.3	683.9	790.8	628.0	239.7	87.8
82.5°	45.6	49.0	73.5	94.6	117.2	101.5	170.1	193.2	181.9	119.1	39.2
85°	22.6	26.5	49.5	67.7	63.2	42.7	52.0	57.8	71.6	72.6	21.1
87.5°	1.5	2.9	28.9	40.7	17.6	9.8	15.2	18.6	25.5	35.8	8.8
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°	1232.0	1232.0	1232.0	1232.0	1232.0	1232.0	1232.0	1232.0	1232.0	1232.0	1232.0
2.5°	1235.4	1235.9	1232.5	1231.0	1232.0	1226.1	1223.7	1224.6	1224.6	1226.1	1223.7
5°	1247.7	1247.7	1241.8	1234.0	1229.5	1218.3	1210.9	1209.0	1207.5	1206.5	1204.5
7.5°	1274.2	1271.2	1260.9	1243.8	1229.1	1204.5	1185.9	1176.1	1171.2	1169.2	1167.8
10°	1316.8	1311.4	1294.3	1262.4	1228.6	1184.9	1144.2	1115.3	1091.3	1081.5	1075.6
12.5°	1374.2	1366.3	1337.4	1284.4	1225.1	1144.7	1056.5	971.7	892.7	860.4	844.2
15°	1440.3	1429.1	1383.5	1303.1	1205.0	1054.0	862.3	713.8	604.5	563.3	545.6
17.5°	1507.5	1492.8	1423.7	1314.8	1144.7	866.3	605.0	456.9	383.9	364.3	357.4
20°	1575.2	1553.6	1458.5	1306.0	1008.4	624.6	399.1	333.9	312.8	306.9	304.9
22.5°	1639.4	1606.1	1489.9	1271.7	798.6	419.2	315.7	295.1	288.3	284.8	283.9
25°	1695.3	1648.7	1517.3	1165.8	565.3	316.7	284.3	277.5	268.7	262.3	262.8
27.5°	1747.7	1691.4	1534.0	991.3	377.0	270.6	263.3	253.9	237.8	228.5	228.5
30°	1811.0	1748.2	1546.2	762.8	277.5	239.2	233.4	219.1	197.1	184.8	184.8
32.5°	1906.1	1834.5	1538.4	535.4	229.9	210.3	196.6	177.0	153.0	141.2	140.7
35°	2051.7	1967.9	1482.5	351.0	203.0	182.9	160.8	136.8	115.7	105.9	105.4
37.5°	2247.8	2146.3	1357.0	251.0	181.9	157.4	130.9	104.4	88.7	82.4	81.9
40°	2502.2	2353.7	1177.6	203.5	162.3	132.9	101.0	80.9	70.1	65.2	65.7
42.5°	2807.6	2575.8	962.4	175.5	143.2	109.3	78.9	63.7	56.9	53.4	52.5
45°	3146.9	2794.9	736.8	156.4	124.0	88.2	61.8	50.5	45.1	43.1	43.1
47.5°	3520.0	3008.2	539.3	139.7	103.4	68.1	49.5	41.2	36.8	35.3	34.8
50°	3858.7	3156.2	388.8	122.1	84.8	53.9	40.2	34.3	31.4	29.4	29.4
52.5°	4141.1	3202.8	286.3	103.0	68.6	43.1	33.3	29.4	26.5	25.0	25.0
55°	4389.7	3183.7	212.8	84.8	55.4	35.3	28.4	25.0	22.6	21.1	21.1
57.5°	4627.9	3121.9	158.8	69.1	44.6	28.4	24.0	21.1	18.6	17.6	17.6
60°	4822.6	3018.9	118.1	55.9	35.8	23.0	20.1	17.2	15.2	13.7	13.7
62.5°	4980.4	2905.2	86.8	46.1	28.4	18.1	15.7	14.2	11.3	9.8	9.8
65°	4981.4	2716.5	65.2	38.2	22.1	14.2	11.8	11.3	7.4	5.9	5.4
67.5°	4621.1	2341.9	50.0	32.8	17.2	10.8	8.8	9.3	3.9	2.5	2.0
68°	4490.2	2246.8	47.1	32.4	16.2	10.3	8.3	9.3	3.4	2.0	1.5
70°	3785.7	1787.4	37.7	31.4	14.2	7.8	6.9	9.3	2.9	1.5	1.0
72.5°	2421.3	1037.4	27.9	25.0	10.8	5.9	4.4	8.3	2.9	1.0	0.5
75°	1030.5	321.6	19.1	17.6	6.4	4.4	2.9	5.4	2.0	0.5	0.0
77.5°	217.2	72.6	11.3	10.8	4.4	2.9	2.0	1.5	0.5	0.0	0.0
80°	55.9	21.1	5.9	5.4	2.5	1.5	1.0	0.0	0.0	0.0	0.0
82.5°	17.6	8.3	3.4	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.8	4.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	1.5	0.5	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)