

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: P321838

Luminaire Tested: **GAN-SA4B-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13714 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 171
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

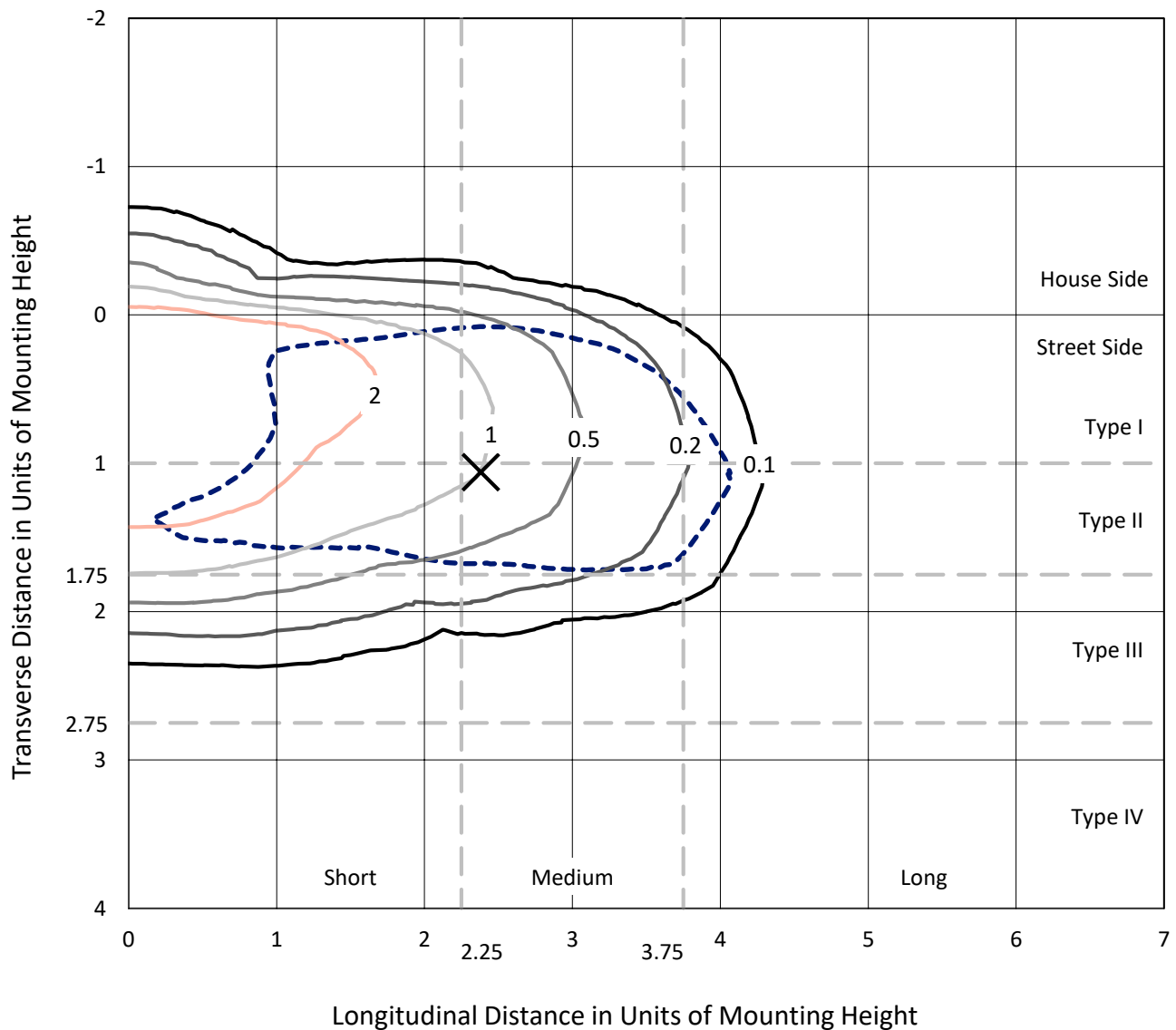


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Iso-Footcandle Lines of Horizontal Illumination

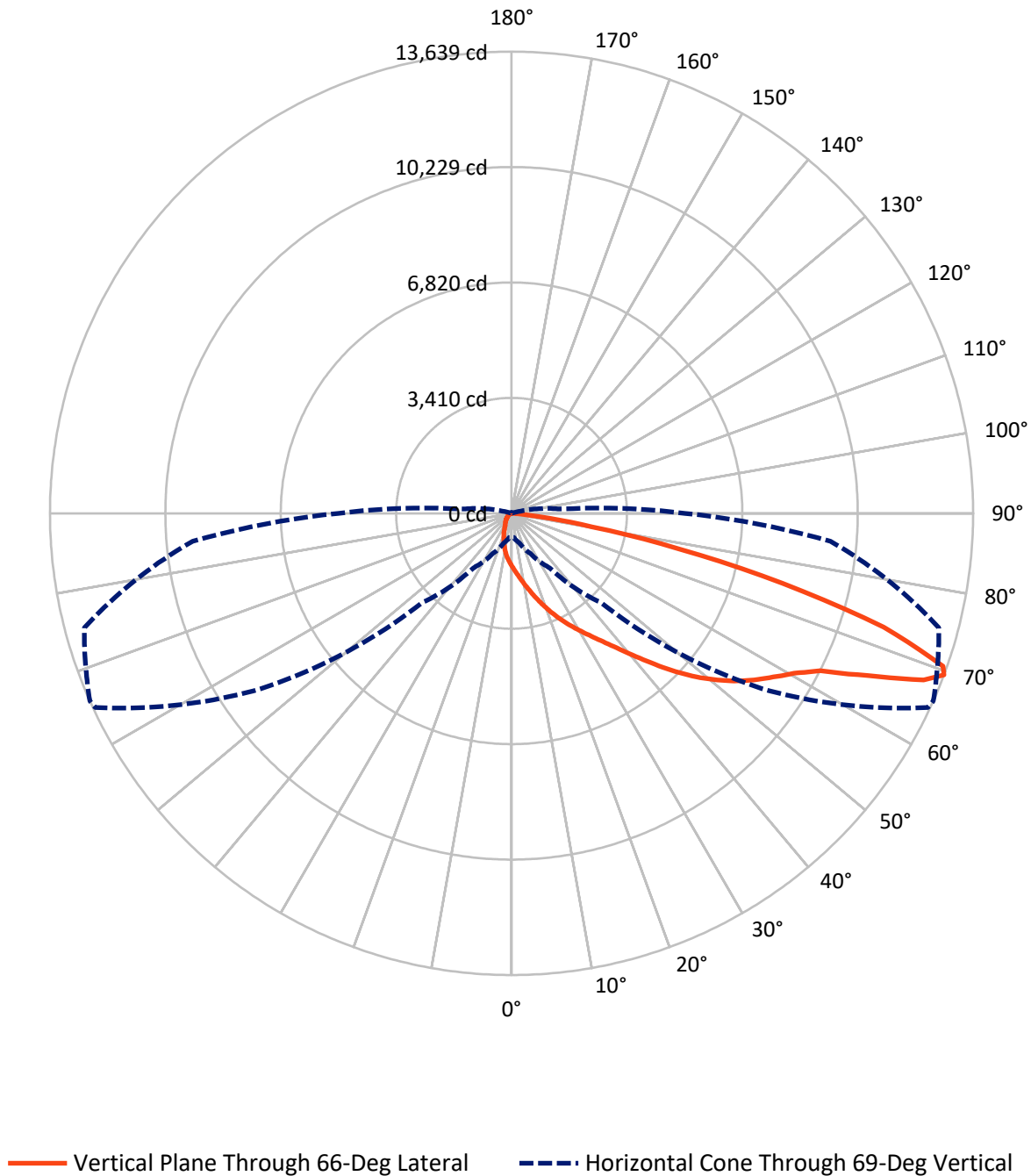
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	822.6	0.0	822.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	12891.3	0.0	12891.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	13714.0	0.0	13714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	1.1
10°-20°	449.0	3.3
20°-30°	781.9	5.7
30°-40°	1371.8	10.0
40°-50°	2296.1	16.7
50°-60°	3375.1	24.6
60°-70°	3465.4	25.3
70°-80°	1710.8	12.5
80°-90°	113.1	0.8
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°	13714.0	100.0
0°-180°	13714.0	100.0

Coefficient of Utilization



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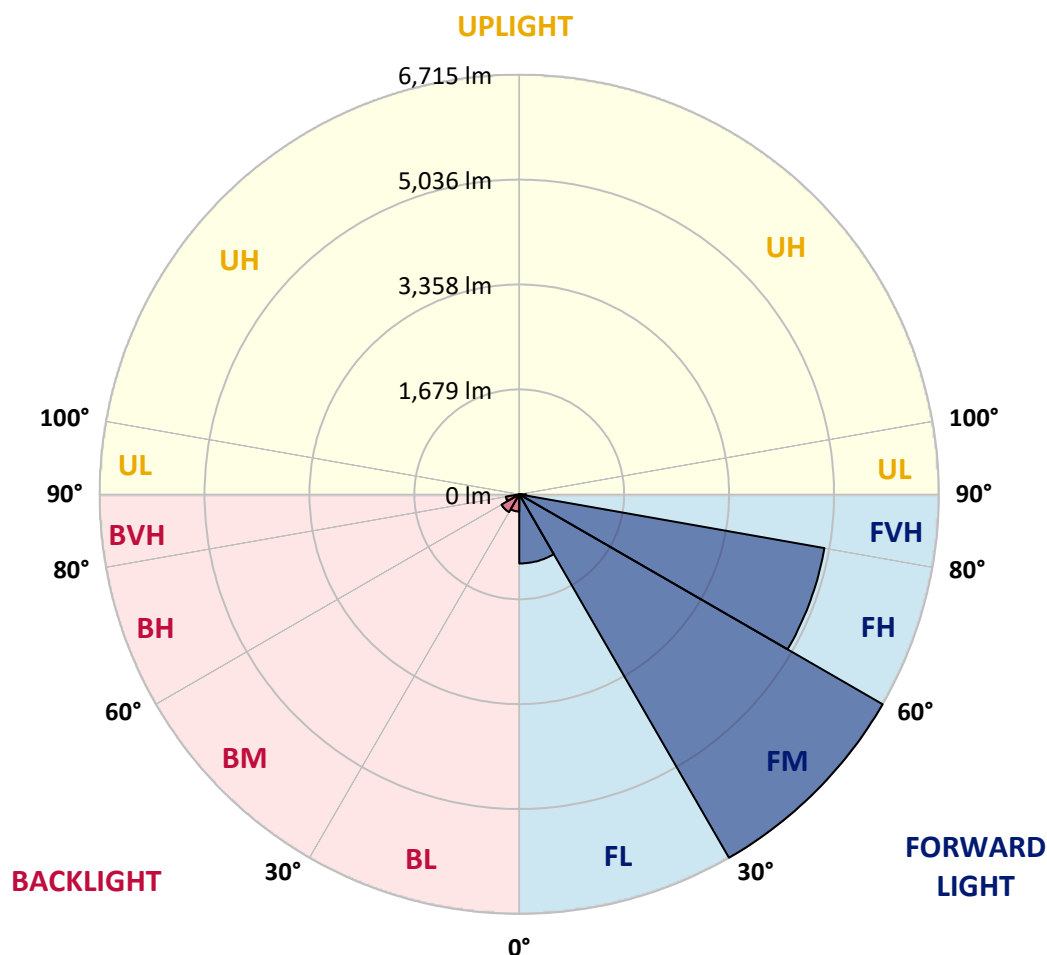
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1106.6	8.1			
FM	(30°-60°)	6715.0	49.0			
FH	(60°-80°)	4959.4	36.2			G2/5000
FVH	(80°-90°)	110.4	0.8			G2/225
BL	(0°-30°)	275.1	2.0	B1/500		
BM	(30°-60°)	328.0	2.4	B1/1000		
BH	(60°-80°)	216.8	1.6	B1/500		G1/500
BVH	(80°-90°)	2.7	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7
2.5°	1836.9	1829.1	1825.8	1811.5	1786.7	1767.8	1731.4	1689.0	1681.2	1640.2	1590.0
5°	2075.3	2068.8	2064.2	2044.0	2018.6	1971.1	1904.6	1825.8	1810.8	1732.7	1632.3
7.5°	2241.4	2253.1	2253.1	2240.1	2208.2	2172.3	2090.9	1983.4	1964.6	1844.7	1689.0
10°	2338.4	2352.8	2363.8	2374.9	2370.4	2356.0	2279.2	2158.0	2135.2	1976.3	1754.8
12.5°	2347.6	2361.9	2393.2	2439.4	2484.3	2516.9	2468.7	2351.5	2325.4	2128.7	1833.0
15°	2296.8	2311.7	2359.9	2449.8	2558.6	2653.7	2669.3	2565.8	2539.1	2310.4	1930.7
17.5°	2208.2	2217.9	2287.0	2411.4	2582.1	2756.6	2851.1	2795.7	2771.0	2518.2	2039.5
20°	2142.4	2149.5	2210.1	2343.7	2567.7	2821.1	3023.0	3040.0	3013.9	2741.0	2157.4
22.5°	2255.1	2268.1	2270.0	2333.2	2528.6	2853.0	3174.2	3280.3	3260.8	2977.4	2273.3
25°	2563.2	2578.1	2528.6	2489.6	2561.9	2867.4	3303.8	3526.6	3510.9	3232.1	2389.9
27.5°	2970.3	2985.9	2922.1	2805.5	2735.8	2921.4	3419.1	3776.7	3776.0	3501.8	2515.6
30°	3370.2	3385.9	3320.7	3204.1	3043.9	3074.5	3518.7	4038.5	4042.4	3779.9	2649.1
32.5°	3789.7	3809.2	3742.2	3592.3	3424.9	3339.0	3658.8	4301.7	4323.8	4102.4	2799.6
35°	4266.5	4269.1	4174.7	4017.7	3824.9	3692.7	3883.5	4596.8	4649.5	4501.7	2990.5
37.5°	4734.2	4753.1	4675.6	4428.1	4250.9	4101.1	4217.7	4965.4	5040.3	4989.5	3239.9
40°	5080.7	5120.5	5109.4	4842.3	4674.3	4567.4	4632.6	5403.8	5498.9	5557.5	3554.6
42.5°	5298.3	5328.3	5379.1	5218.2	5065.8	5083.3	5122.4	5914.5	6031.7	6205.0	3916.1
45°	5547.8	5562.1	5604.4	5533.4	5430.5	5607.7	5642.2	6489.7	6612.8	6901.3	4317.3
47.5°	5852.6	5886.5	5898.2	5833.1	5786.2	6071.5	6143.1	7012.7	7185.3	7647.2	4742.0
50°	6240.8	6250.0	6270.1	6227.8	6180.9	6470.1	6592.6	7561.8	7718.8	8395.6	5160.9
52.5°	6620.6	6653.2	6723.5	6696.8	6677.9	6809.5	6993.2	8056.9	8232.1	9019.6	5579.0
55°	6730.0	6758.0	7001.0	7167.1	7320.8	7227.7	7376.2	8500.5	8690.0	9577.2	5981.6
57.5°	6292.9	6349.6	6770.4	7202.9	7840.6	7877.7	7902.5	8955.8	9125.8	10004.5	6400.4
60°	5188.2	5199.3	5889.7	6631.7	7754.6	8445.1	8671.1	9445.0	9587.6	10402.5	6902.0
62.5°	3299.9	3412.6	4170.1	5217.5	6845.3	8363.0	9600.6	10184.9	10237.0	10879.9	7621.1
65°	1571.8	1644.7	2190.6	3223.7	4958.3	7312.3	10242.2	11523.5	11546.9	11826.4	8581.9
67.5°	870.2	905.4	1165.3	1735.3	2898.6	5171.3	9983.0	13108.9	13131.1	12793.0	9424.8
69°	680.7	710.7	915.2	1308.0	1965.2	3716.8	9033.9	13573.4	13639.2	13069.9	9454.7
70°	577.8	607.1	788.2	1104.7	1580.2	2871.9	8041.2	13458.1	13527.8	13043.8	9231.3
72.5°	353.7	370.6	525.0	777.7	1059.1	1444.8	4958.9	11381.5	11499.4	11965.1	7933.8
75°	238.4	247.5	328.3	536.7	757.6	743.9	2576.2	8022.3	8277.7	9307.5	5859.8
77.5°	170.7	179.1	220.2	347.2	530.9	491.1	1166.6	4985.6	5040.3	5582.3	3195.7
80°	97.1	104.9	155.7	206.5	360.2	327.6	463.8	2381.4	2408.8	2393.8	1067.0
82.5°	50.8	57.3	85.3	136.1	231.2	214.3	192.8	797.3	801.2	666.4	233.8
85°	9.8	11.7	42.3	93.1	119.2	93.1	78.8	186.9	190.9	168.7	58.0
87.5°	0.0	0.7	16.9	20.8	23.4	24.1	25.4	36.5	39.1	52.8	15.6
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°	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7	1560.7
2.5°	1567.9	1544.4	1499.5	1447.4	1407.0	1367.2	1336.0	1303.4	1291.7	1285.8	1285.2
5°	1583.5	1534.0	1438.9	1341.2	1261.1	1185.5	1131.4	1080.0	1055.9	1044.8	1040.2
7.5°	1609.6	1530.1	1377.0	1227.8	1112.6	1018.1	943.2	887.2	859.2	847.4	842.9
10°	1640.2	1524.9	1304.7	1108.0	960.8	863.1	788.8	733.4	702.8	689.8	683.3
12.5°	1676.0	1515.8	1221.3	986.8	831.2	733.4	643.6	575.2	540.0	525.0	517.8
15°	1720.3	1506.6	1134.0	872.8	717.2	598.0	499.6	453.4	446.2	443.6	444.2
17.5°	1763.9	1492.3	1038.9	760.2	597.3	467.0	416.9	414.3	415.6	415.6	415.6
20°	1803.0	1459.7	935.4	663.8	483.3	394.1	383.7	379.1	375.8	373.2	370.0
22.5°	1833.6	1416.1	835.7	568.0	394.7	360.9	344.6	330.2	318.5	310.7	306.8
25°	1854.5	1358.1	744.5	476.2	355.0	328.3	299.0	274.9	256.6	245.6	241.0
27.5°	1870.1	1295.6	663.1	398.6	327.6	290.5	252.1	223.4	204.5	194.8	190.9
30°	1881.2	1224.6	591.4	350.4	297.0	250.8	209.7	181.7	168.1	162.8	160.2
32.5°	1891.6	1145.8	523.7	327.6	268.4	214.3	175.9	154.4	145.9	139.4	137.4
35°	1917.7	1072.8	459.2	303.5	239.1	183.0	151.1	135.5	127.0	123.1	121.8
37.5°	1979.5	1018.8	397.3	278.8	209.7	158.3	132.2	121.2	113.3	109.4	108.1
40°	2079.2	991.4	345.2	252.1	181.1	139.4	119.9	109.4	101.0	95.1	93.8
42.5°	2225.8	995.3	308.8	225.4	158.3	124.4	108.1	95.8	86.6	81.4	80.1
45°	2403.6	1024.0	283.3	199.3	139.4	112.7	95.1	82.1	73.6	69.0	67.7
47.5°	2596.4	1070.2	262.5	175.9	124.4	101.6	82.1	68.4	61.2	57.3	56.7
50°	2799.6	1115.2	241.0	153.1	111.4	90.5	69.0	56.7	50.8	47.6	46.2
52.5°	3005.4	1167.3	221.5	132.2	100.3	77.5	57.3	46.2	41.7	39.1	37.8
55°	3226.9	1206.3	202.6	115.9	89.2	65.8	47.6	38.4	34.5	31.3	30.6
57.5°	3487.5	1266.9	183.0	100.3	76.2	54.7	39.1	30.6	27.4	24.1	23.4
60°	3839.2	1337.9	162.2	88.6	62.5	44.9	31.9	24.8	20.8	18.2	17.6
62.5°	4303.0	1416.7	136.1	77.5	50.8	36.5	25.4	19.5	15.0	11.7	11.7
65°	4891.2	1545.1	111.4	65.1	41.7	30.0	19.5	14.3	8.5	5.2	5.2
67.5°	5234.5	1567.2	89.9	53.4	33.9	25.4	16.3	9.8	2.6	0.7	0.0
69°	5124.4	1438.9	76.2	45.6	29.3	24.1	15.0	7.2	1.3	0.0	0.0
70°	4917.2	1315.8	67.1	40.4	26.7	22.8	14.3	5.2	1.3	0.0	0.0
72.5°	4063.3	936.7	50.8	30.0	19.5	20.2	13.0	3.3	1.3	0.0	0.0
75°	2959.9	569.3	36.5	20.8	12.4	15.0	9.1	1.3	0.7	0.0	0.0
77.5°	1646.7	268.4	22.8	11.7	7.8	9.1	4.6	0.0	0.0	0.0	0.0
80°	534.8	73.0	10.4	6.5	4.6	5.2	2.0	0.0	0.0	0.0	0.0
82.5°	99.0	20.8	5.9	3.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
85°	21.5	8.5	3.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	2.6	0.7	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)