

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: P321919

Luminaire Tested: **GAN-SA5B-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321919
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-SA5B-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 20319 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

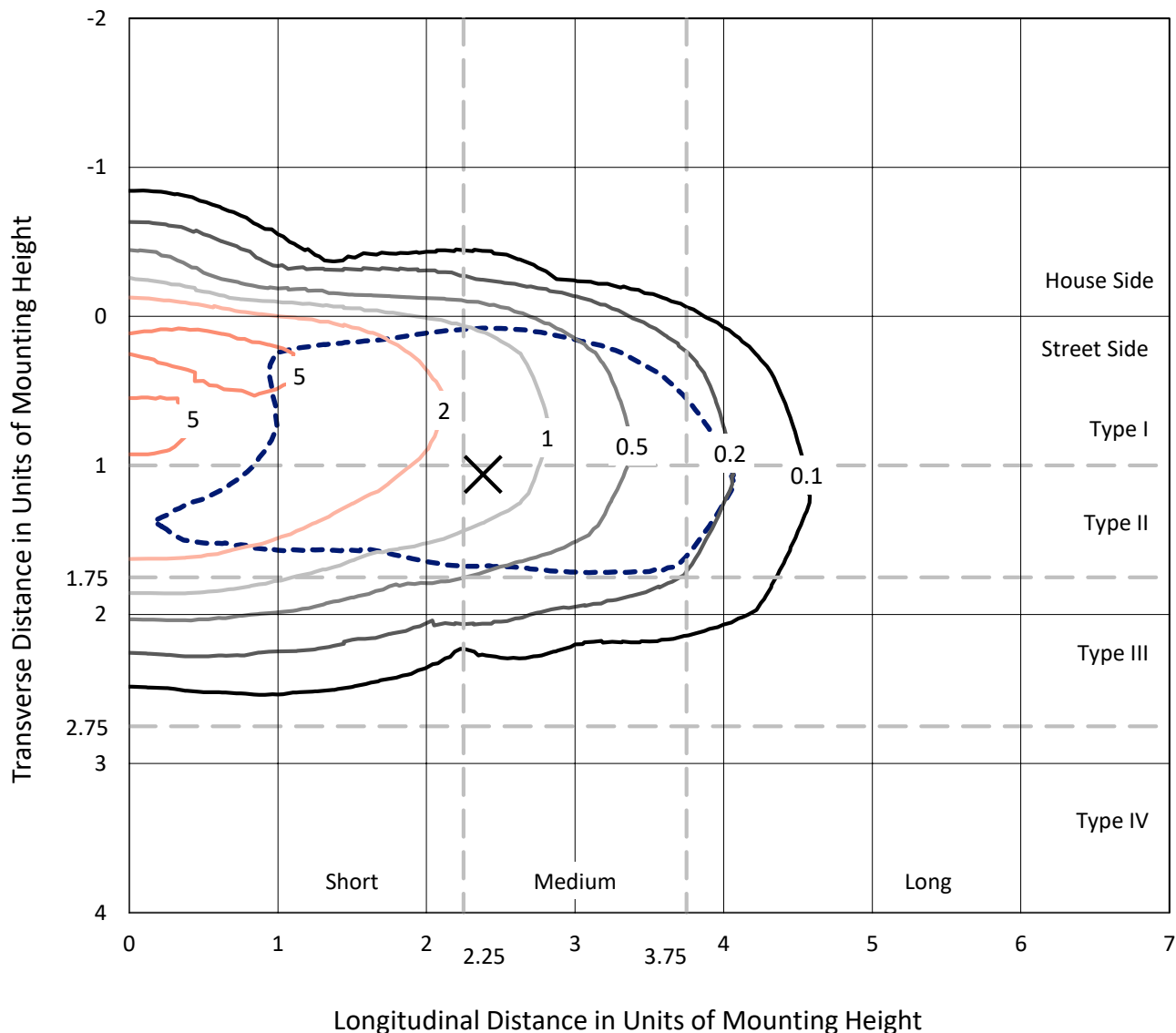
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321919
 CATALOG NUMBER: GAN-SA5B-740-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

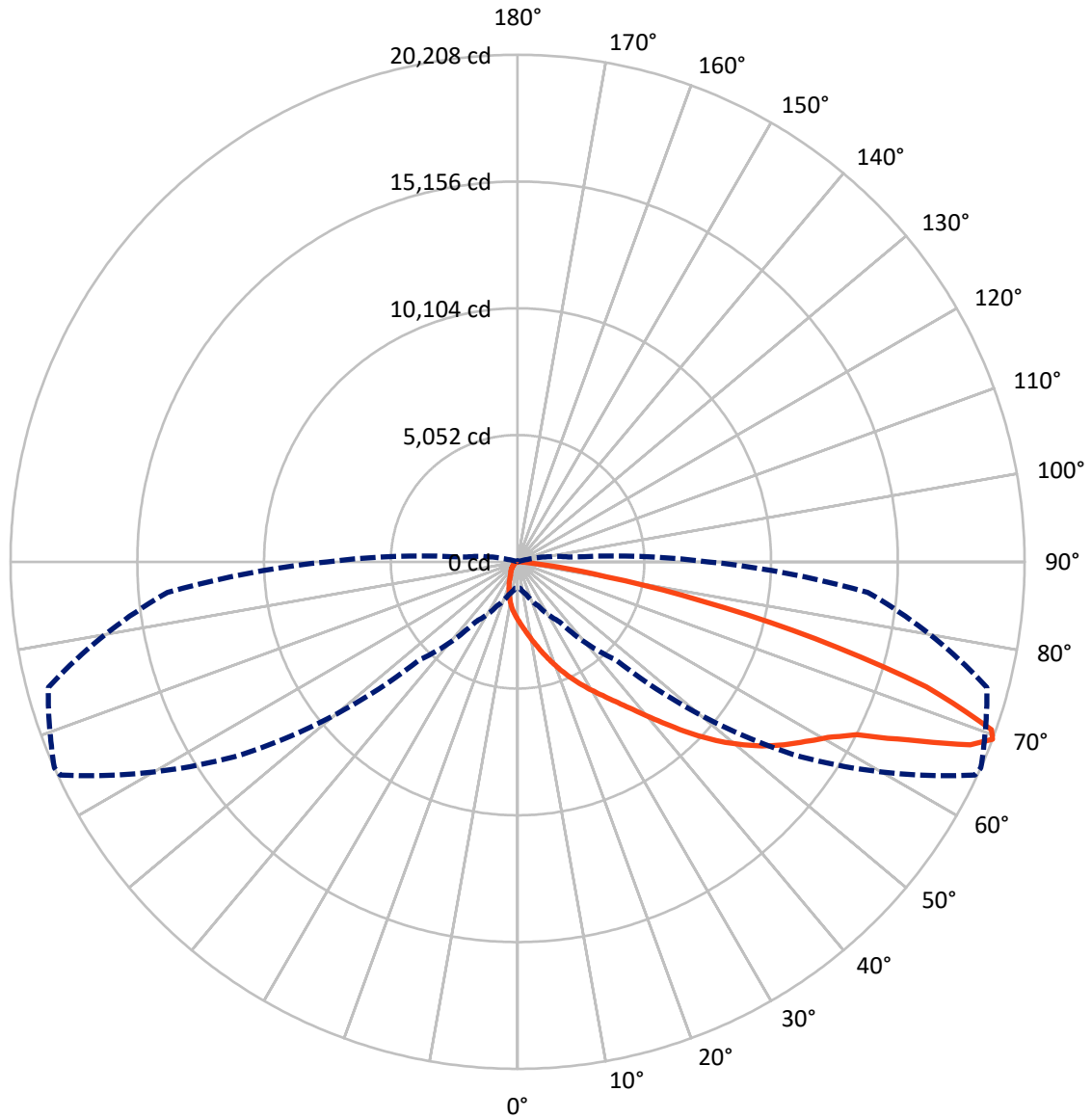
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P321919
CATALOG NUMBER: GAN-SA5B-740-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P321919
 CATALOG NUMBER: GAN-SA5B-740-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1218.9	0.0	1218.9
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	19100.1	0.0	19100.1
	% Fixture	94.0	0.0	94.0
Total	Lumens	20319.0	0.0	20319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.5	1.1
10°-20°	665.2	3.3
20°-30°	1158.4	5.7
30°-40°	2032.5	10.0
40°-50°	3402.0	16.7
50°-60°	5000.6	24.6
60°-70°	5134.4	25.3
70°-80°	2534.7	12.5
80°-90°	167.6	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°	20319.0	100.0
0°-180°	20319.0	100.0

Coefficient of Utilization



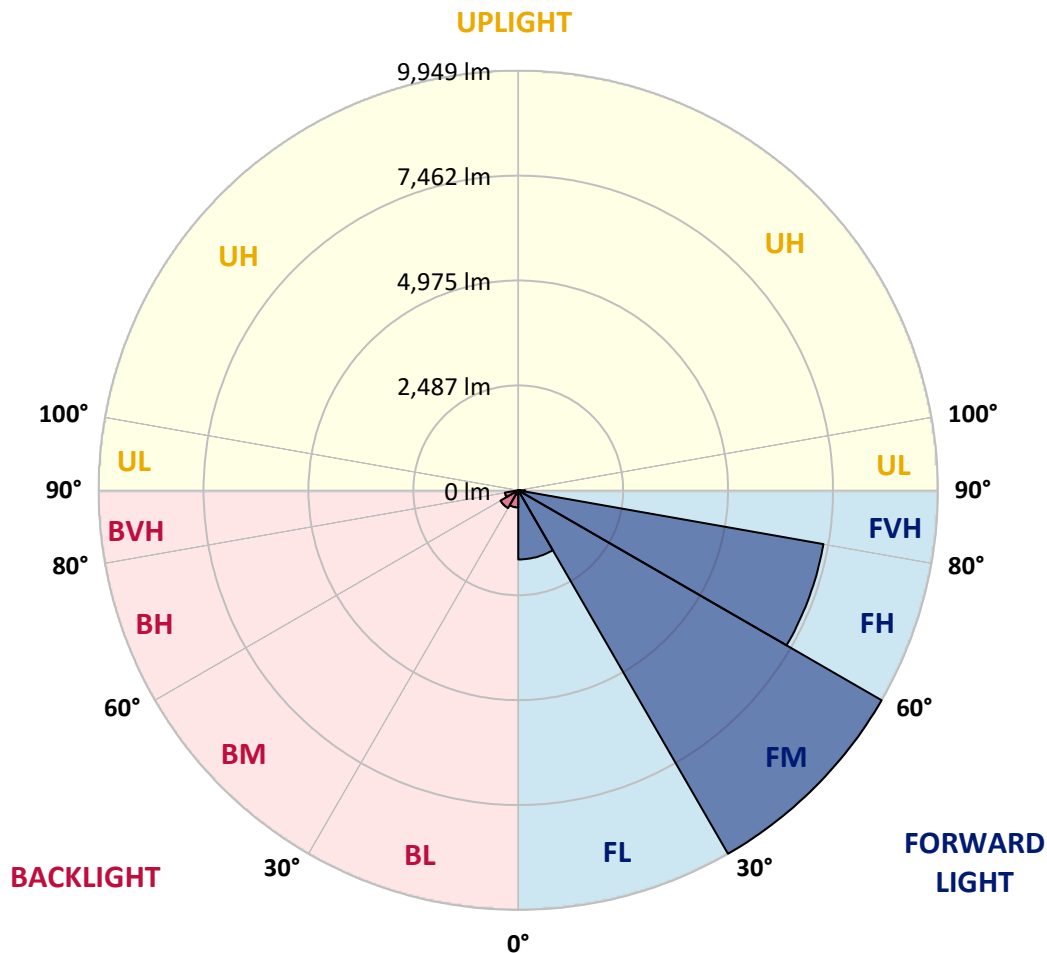
REPORT NUMBER: P321919
 CATALOG NUMBER: GAN-SA5B-740-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1639.5	8.1			
FM (30°-60°)	9949.2	49.0			
FH (60°-80°)	7347.9	36.2			G3/7500
FVH (80°-90°)	163.5	0.8			G2/225
BL (0°-30°)	407.6	2.0	B1/500		
BM (30°-60°)	486.0	2.4	B1/1000		
BH (60°-80°)	321.2	1.6	B1/500		G1/500
BVH (80°-90°)	4.0	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-G3

Type II Medium





REPORT NUMBER: P321919

CATALOG NUMBER: GAN-SA5B-740-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4
2.5°	2721.6	2710.0	2705.2	2683.9	2647.3	2619.3	2565.2	2502.5	2490.9	2430.1	2355.8
5°	3074.8	3065.1	3058.4	3028.5	2990.8	2920.4	2821.9	2705.2	2683.0	2567.2	2418.5
7.5°	3320.9	3338.3	3338.3	3319.0	3271.7	3218.6	3098.0	2938.7	2910.7	2733.1	2502.5
10°	3464.7	3485.9	3502.3	3518.7	3512.0	3490.7	3376.9	3197.4	3163.6	2928.1	2600.0
12.5°	3478.2	3499.4	3545.8	3614.3	3680.9	3729.1	3657.7	3484.0	3445.4	3153.9	2715.8
15°	3402.9	3425.1	3496.5	3629.7	3790.9	3931.8	3955.0	3801.5	3761.9	3423.2	2860.5
17.5°	3271.7	3286.1	3388.4	3572.8	3825.6	4084.3	4224.2	4142.2	4105.5	3731.1	3021.7
20°	3174.2	3184.8	3274.6	3472.4	3804.4	4179.8	4479.0	4504.1	4465.5	4061.1	3196.4
22.5°	3341.2	3360.5	3363.4	3457.0	3746.5	4227.1	4702.9	4860.2	4831.3	4411.4	3368.2
25°	3797.6	3819.8	3746.5	3688.6	3795.7	4248.3	4895.0	5225.0	5201.9	4788.8	3540.9
27.5°	4400.8	4424.0	4329.4	4156.7	4053.4	4328.5	5065.8	5595.6	5594.7	5188.4	3727.2
30°	4993.4	5016.6	4920.1	4747.3	4509.9	4555.2	5213.4	5983.6	5989.4	5600.4	3925.0
32.5°	5614.9	5643.9	5544.5	5322.5	5074.5	4947.1	5420.9	6373.5	6406.3	6078.2	4148.0
35°	6321.4	6325.2	6185.3	5952.7	5667.0	5471.1	5753.9	6810.7	6888.8	6669.8	4430.8
37.5°	7014.3	7042.3	6927.5	6560.7	6298.2	6076.2	6249.0	7356.9	7467.9	7392.6	4800.4
40°	7527.7	7586.6	7570.2	7174.5	6925.5	6767.2	6863.8	8006.4	8147.3	8234.2	5266.5
42.5°	7850.1	7894.5	7969.8	7731.4	7505.5	7531.6	7589.5	8763.1	8936.8	9193.5	5802.2
45°	8219.7	8240.9	8303.7	8198.5	8046.0	8308.5	8359.7	9615.2	9797.6	10225.2	6396.6
47.5°	8671.4	8721.6	8738.9	8642.4	8572.9	8995.6	9101.8	10390.2	10646.0	11330.2	7025.9
50°	9246.6	9260.1	9290.0	9227.3	9157.8	9586.3	9767.7	11203.8	11436.4	12439.1	7646.4
52.5°	9809.2	9857.5	9961.7	9922.1	9894.2	10089.1	10361.3	11937.3	12196.9	13363.7	8266.0
55°	9971.4	10012.9	10372.8	10618.9	10846.7	10708.7	10928.7	12594.5	12875.3	14189.8	8862.5
57.5°	9323.8	9407.7	10031.2	10672.0	11616.8	11671.9	11708.5	13269.1	13521.0	14822.9	9483.0
60°	7687.0	7703.4	8726.4	9825.6	11489.5	12512.5	12847.3	13993.9	14205.2	15412.6	10226.1
62.5°	4889.2	5056.1	6178.5	7730.4	10142.2	12390.9	14224.5	15090.2	15167.4	16120.0	11291.6
65°	2328.8	2436.9	3245.6	4776.3	7346.3	10834.2	15175.2	17073.5	17108.2	17522.3	12715.1
67.5°	1289.4	1341.5	1726.6	2571.0	4294.7	7661.9	14791.0	19422.5	19455.3	18954.5	13964.0
69°	1008.5	1052.9	1356.0	1937.9	2911.7	5506.8	13384.9	20110.6	20208.1	19364.6	14008.4
70°	856.0	899.5	1167.8	1636.8	2341.3	4255.1	11914.1	19939.8	20043.1	19326.0	13677.3
72.5°	524.0	549.1	777.9	1152.3	1569.2	2140.6	7347.3	16863.1	17037.8	17727.8	11754.9
75°	353.2	366.7	486.4	795.2	1122.4	1102.1	3817.0	11886.1	12264.4	13790.2	8682.0
77.5°	252.9	265.4	326.2	514.4	786.6	727.7	1728.5	7386.8	7467.9	8270.9	4734.8
80°	143.8	155.4	230.7	305.9	533.7	485.4	687.1	3528.4	3568.9	3546.7	1580.8
82.5°	75.3	84.9	126.4	201.7	342.6	317.5	285.7	1181.3	1187.1	987.3	346.5
85°	14.5	17.4	62.7	138.0	176.6	138.0	116.8	277.0	282.8	250.0	85.9
87.5°	0.0	1.0	25.1	30.9	34.7	35.7	37.6	54.0	57.9	78.2	23.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P321919
 CATALOG NUMBER: GAN-SA5B-740-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4	2312.4
2.5°	2323.0	2288.2	2221.6	2144.4	2084.6	2025.7	1979.4	1931.2	1913.8	1905.1	1904.1
5°	2346.1	2272.8	2131.9	1987.1	1868.4	1756.5	1676.4	1600.1	1564.4	1548.0	1541.3
7.5°	2384.7	2267.0	2040.2	1819.2	1648.4	1508.4	1397.5	1314.5	1273.0	1255.6	1248.8
10°	2430.1	2259.3	1933.1	1641.6	1423.5	1278.8	1168.7	1086.7	1041.3	1022.0	1012.4
12.5°	2483.2	2245.8	1809.6	1462.1	1231.5	1086.7	953.5	852.2	800.1	777.9	767.3
15°	2548.8	2232.3	1680.2	1293.2	1062.6	886.0	740.2	671.7	661.1	657.2	658.2
17.5°	2613.5	2211.0	1539.3	1126.3	885.0	692.0	617.7	613.8	615.7	615.7	615.7
20°	2671.4	2162.8	1385.9	983.4	716.1	583.9	568.4	561.7	556.9	553.0	548.2
22.5°	2716.7	2098.1	1238.2	841.6	584.8	534.7	510.5	489.3	471.9	460.4	454.6
25°	2747.6	2012.2	1103.1	705.5	526.0	486.4	443.0	407.3	380.2	363.8	357.1
27.5°	2770.8	1919.6	982.5	590.6	485.4	430.4	373.5	331.0	303.0	288.6	282.8
30°	2787.2	1814.4	876.3	519.2	440.1	371.6	310.8	269.3	249.0	241.3	237.4
32.5°	2802.6	1697.6	775.9	485.4	397.6	317.5	260.6	228.7	216.2	206.5	203.6
35°	2841.2	1589.5	680.4	449.7	354.2	271.2	223.9	200.7	188.2	182.4	180.5
37.5°	2932.9	1509.4	588.7	413.1	310.8	234.5	195.9	179.5	167.9	162.1	160.2
40°	3080.6	1468.9	511.5	373.5	268.3	206.5	177.6	162.1	149.6	140.9	139.0
42.5°	3297.7	1474.7	457.5	333.9	234.5	184.3	160.2	141.9	128.4	120.6	118.7
45°	3561.2	1517.1	419.8	295.3	206.5	167.0	140.9	121.6	109.1	102.3	100.4
47.5°	3846.9	1585.7	388.9	260.6	184.3	150.6	121.6	101.3	90.7	84.9	84.0
50°	4148.0	1652.2	357.1	226.8	165.0	134.1	102.3	84.0	75.3	70.5	68.5
52.5°	4452.9	1729.5	328.1	195.9	148.6	114.8	84.9	68.5	61.8	57.9	56.0
55°	4781.1	1787.4	300.1	171.8	132.2	97.5	70.5	56.9	51.2	46.3	45.4
57.5°	5167.1	1877.1	271.2	148.6	112.9	81.1	57.9	45.4	40.5	35.7	34.7
60°	5688.3	1982.3	240.3	131.3	92.6	66.6	47.3	36.7	30.9	27.0	26.1
62.5°	6375.4	2099.1	201.7	114.8	75.3	54.0	37.6	29.0	22.2	17.4	17.4
65°	7246.9	2289.2	165.0	96.5	61.8	44.4	29.0	21.2	12.5	7.7	7.7
67.5°	7755.5	2322.0	133.2	79.1	50.2	37.6	24.1	14.5	3.9	1.0	0.0
69°	7592.4	2131.9	112.9	67.6	43.4	35.7	22.2	10.6	1.9	0.0	0.0
70°	7285.5	1949.5	99.4	59.8	39.6	33.8	21.2	7.7	1.9	0.0	0.0
72.5°	6020.3	1387.8	75.3	44.4	29.0	29.9	19.3	4.8	1.9	0.0	0.0
75°	4385.4	843.5	54.0	30.9	18.3	22.2	13.5	1.9	1.0	0.0	0.0
77.5°	2439.8	397.6	33.8	17.4	11.6	13.5	6.8	0.0	0.0	0.0	0.0
80°	792.3	108.1	15.4	9.7	6.8	7.7	2.9	0.0	0.0	0.0	0.0
82.5°	146.7	30.9	8.7	4.8	1.9	1.9	0.0	0.0	0.0	0.0	0.0
85°	31.8	12.5	4.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	3.9	1.0	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)