

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: P321839

Luminaire Tested: **GAN-SA5B-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321839
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-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 16991 lumens
Efficiency: N/A
Efficacy: 80.9 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

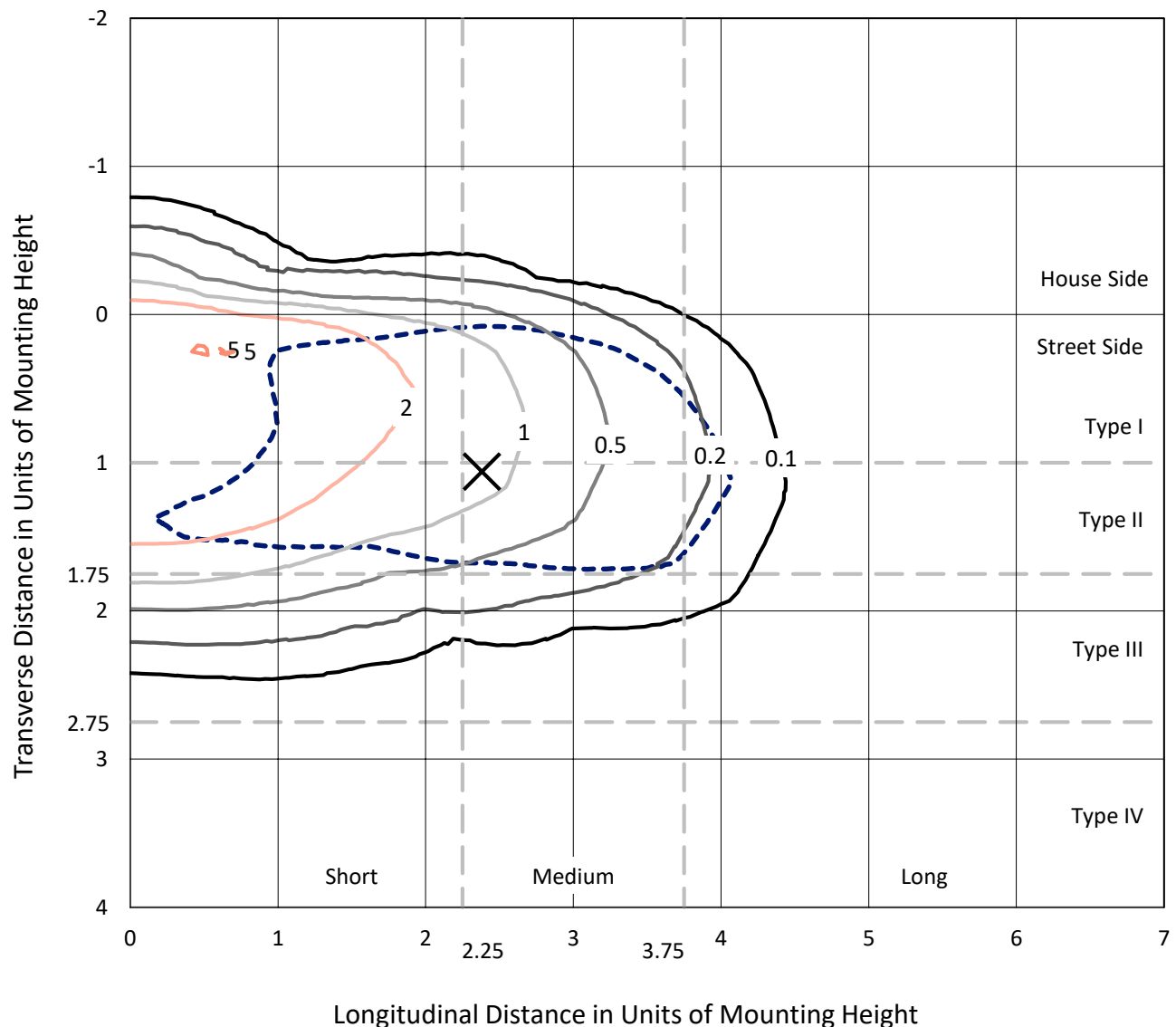


REPORT NUMBER: P321839

CATALOG NUMBER: GAN-SA5B-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

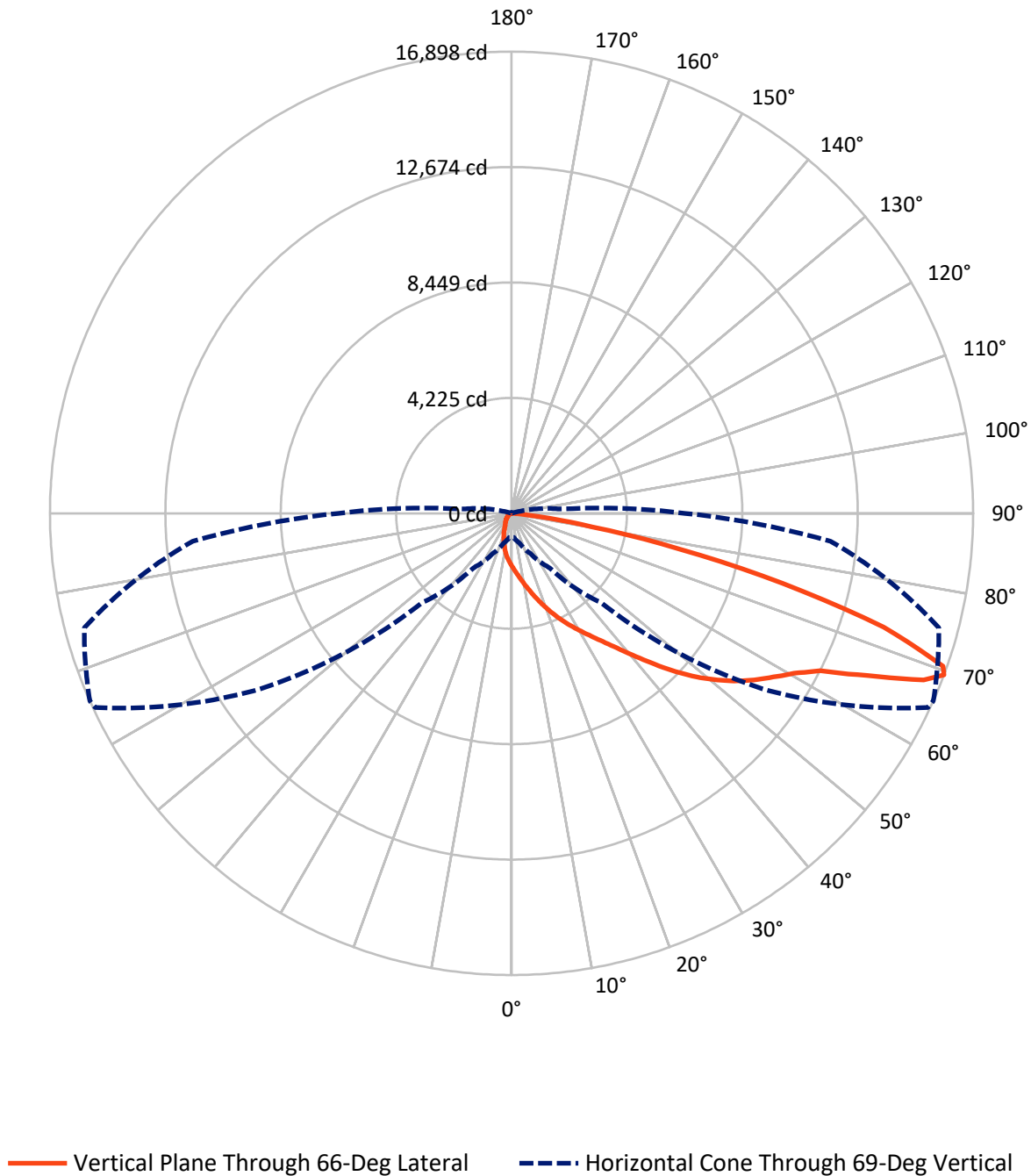
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P321839
CATALOG NUMBER: GAN-SA5B-727-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321839

CATALOG NUMBER: GAN-SA5B-727-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1019.2	0.0	1019.2
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	15971.8	0.0	15971.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	16991.0	0.0	16991.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	1.1
10°-20°	556.3	3.3
20°-30°	968.7	5.7
30°-40°	1699.6	10.0
40°-50°	2844.8	16.7
50°-60°	4181.6	24.6
60°-70°	4293.5	25.3
70°-80°	2119.6	12.5
80°-90°	140.1	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°	16991.0	100.0
0°-180°	16991.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321839

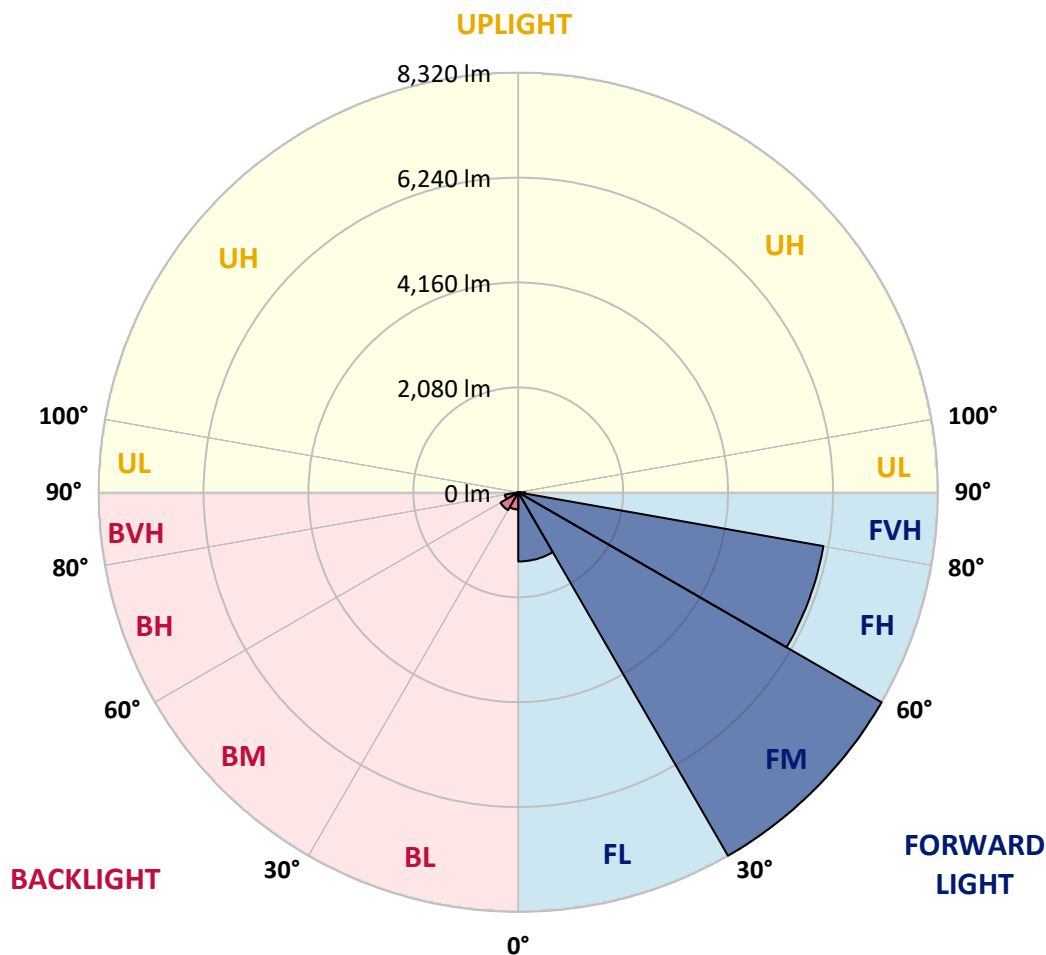
CATALOG NUMBER: GAN-SA5B-727-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1371.0	8.1			
FM	(30°-60°)	8319.6	49.0			
FH	(60°-80°)	6144.4	36.2			G3/7500
FVH	(80°-90°)	136.8	0.8			G2/225
BL	(0°-30°)	340.9	2.0	B1/500		
BM	(30°-60°)	406.4	2.4	B1/1000		
BH	(60°-80°)	268.6	1.6	B1/500		G1/500
BVH	(80°-90°)	3.4	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: P321839

CATALOG NUMBER: GAN-SA5B-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6
2.5°	2275.8	2266.1	2262.1	2244.3	2213.7	2190.3	2145.1	2092.6	2082.9	2032.1	1969.9
5°	2571.2	2563.1	2557.5	2532.4	2501.0	2442.1	2359.7	2262.1	2243.5	2146.7	2022.4
7.5°	2777.0	2791.5	2791.5	2775.4	2735.8	2691.4	2590.5	2457.4	2434.0	2285.5	2092.6
10°	2897.2	2915.0	2928.7	2942.4	2936.8	2919.0	2823.8	2673.7	2645.4	2448.5	2174.1
12.5°	2908.5	2926.3	2965.0	3022.3	3078.0	3118.3	3058.6	2913.4	2881.1	2637.4	2271.0
15°	2845.6	2864.1	2923.8	3035.2	3170.0	3287.8	3307.2	3178.9	3145.8	2862.5	2392.0
17.5°	2735.8	2747.9	2833.5	2987.6	3199.0	3415.3	3532.3	3463.7	3433.1	3120.0	2526.8
20°	2654.3	2663.2	2738.2	2903.7	3181.3	3495.2	3745.4	3766.4	3734.1	3396.0	2672.9
22.5°	2793.9	2810.1	2812.5	2890.8	3132.9	3534.8	3932.6	4064.2	4040.0	3688.9	2816.5
25°	3175.6	3194.2	3132.9	3084.4	3174.0	3552.5	4093.2	4369.2	4349.9	4004.5	2961.0
27.5°	3680.0	3699.4	3620.3	3475.9	3389.5	3619.5	4236.1	4679.1	4678.3	4338.6	3116.7
30°	4175.5	4194.9	4114.2	3969.8	3771.2	3809.2	4359.5	5003.6	5008.4	4683.2	3282.2
32.5°	4695.3	4719.5	4636.4	4450.7	4243.3	4136.8	4533.1	5329.6	5357.0	5082.6	3468.6
35°	5286.0	5289.2	5172.2	4977.7	4738.8	4575.0	4811.5	5695.2	5760.5	5577.3	3705.0
37.5°	5865.5	5888.9	5792.8	5486.2	5266.6	5081.0	5225.5	6151.9	6244.8	6181.8	4014.1
40°	6294.8	6344.0	6330.3	5999.4	5791.2	5658.9	5739.6	6695.1	6812.9	6885.5	4403.9
42.5°	6564.3	6601.5	6664.4	6465.1	6276.2	6298.0	6346.4	7327.8	7473.0	7687.7	4851.8
45°	6873.4	6891.2	6943.6	6855.7	6728.2	6947.7	6990.4	8040.4	8192.9	8550.4	5349.0
47.5°	7251.1	7293.1	7307.6	7226.9	7168.8	7522.3	7611.0	8688.4	8902.3	9474.5	5875.1
50°	7732.1	7743.4	7768.4	7716.0	7657.9	8016.2	8167.9	9368.7	9563.2	10401.7	6394.1
52.5°	8202.6	8242.9	8330.1	8297.0	8273.6	8436.6	8664.2	9982.1	10199.2	11174.9	6912.2
55°	8338.2	8372.9	8673.9	8879.7	9070.1	8954.7	9138.7	10531.7	10766.5	11865.7	7410.9
57.5°	7796.7	7866.9	8388.2	8924.1	9714.2	9760.2	9790.8	11095.8	11306.4	12395.1	7929.8
60°	6427.9	6441.7	7297.1	8216.3	9607.6	10463.1	10743.1	11701.9	11878.6	12888.2	8551.2
62.5°	4088.4	4228.0	5166.6	6464.3	8481.0	10361.4	11894.7	12618.6	12683.2	13479.7	9442.2
65°	1947.3	2037.7	2714.0	3994.0	6143.1	9059.7	12689.7	14277.1	14306.1	14652.3	10632.5
67.5°	1078.2	1121.8	1443.8	2149.9	3591.3	6407.0	12368.5	16241.4	16268.8	15850.0	11676.8
69°	843.3	880.5	1133.9	1620.5	2434.8	4604.9	11192.6	16816.8	16898.3	16192.9	11714.0
70°	715.8	752.1	976.5	1368.7	1957.8	3558.2	9962.7	16673.9	16760.3	16160.7	11437.1
72.5°	438.2	459.2	650.5	963.6	1312.2	1790.0	6143.9	14101.1	14247.2	14824.2	9829.6
75°	295.4	306.7	406.7	665.0	938.6	921.6	3191.8	9939.3	10255.7	11531.6	7260.0
77.5°	211.4	221.9	272.8	430.1	657.7	608.5	1445.4	6177.0	6244.8	6916.2	3959.3
80°	120.2	129.9	192.9	255.8	446.3	405.9	574.6	2950.5	2984.4	2965.8	1321.9
82.5°	62.9	71.0	105.7	168.7	286.5	265.5	238.9	987.8	992.6	825.6	289.7
85°	12.1	14.5	52.5	115.4	147.7	115.4	97.6	231.6	236.5	209.0	71.8
87.5°	0.0	0.8	21.0	25.8	29.1	29.9	31.5	45.2	48.4	65.4	19.4
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: P321839

CATALOG NUMBER: GAN-SA5B-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6
2.5°	1942.5	1913.5	1857.8	1793.2	1743.2	1693.9	1655.2	1614.9	1600.3	1593.1	1592.3
5°	1961.9	1900.5	1782.7	1661.7	1562.4	1468.8	1401.8	1338.0	1308.2	1294.5	1288.8
7.5°	1994.2	1895.7	1706.0	1521.2	1378.4	1261.4	1168.6	1099.2	1064.5	1049.9	1044.3
10°	2032.1	1889.2	1616.5	1372.7	1190.4	1069.3	977.3	908.7	870.8	854.6	846.6
12.5°	2076.5	1877.9	1513.2	1222.6	1029.8	908.7	797.3	712.6	669.0	650.5	641.6
15°	2131.4	1866.6	1405.0	1081.4	888.5	740.8	619.0	561.7	552.8	549.6	550.4
17.5°	2185.4	1848.9	1287.2	941.8	740.0	578.6	516.5	513.3	514.9	514.9	514.9
20°	2233.8	1808.5	1158.9	822.4	598.8	488.2	475.3	469.7	465.7	462.4	458.4
22.5°	2271.8	1754.5	1035.4	703.7	489.1	447.1	426.9	409.2	394.6	385.0	380.1
25°	2297.6	1682.6	922.4	589.9	439.8	406.7	370.4	340.6	318.0	304.2	298.6
27.5°	2317.0	1605.2	821.6	493.9	405.9	359.9	312.3	276.8	253.4	241.3	236.5
30°	2330.7	1517.2	732.8	434.2	368.0	310.7	259.9	225.2	208.2	201.8	198.5
32.5°	2343.6	1419.6	648.8	405.9	332.5	265.5	217.9	191.3	180.8	172.7	170.3
35°	2375.9	1329.2	569.0	376.1	296.2	226.8	187.2	167.9	157.4	152.5	150.9
37.5°	2452.5	1262.2	492.3	345.4	259.9	196.1	163.8	150.1	140.4	135.6	134.0
40°	2576.0	1228.3	427.7	312.3	224.4	172.7	148.5	135.6	125.1	117.8	116.2
42.5°	2757.6	1233.1	382.5	279.2	196.1	154.1	134.0	118.6	107.3	100.9	99.3
45°	2977.9	1268.6	351.1	246.9	172.7	139.6	117.8	101.7	91.2	85.5	83.9
47.5°	3216.8	1325.9	325.2	217.9	154.1	125.9	101.7	84.7	75.9	71.0	70.2
50°	3468.6	1381.6	298.6	189.7	138.0	112.2	85.5	70.2	62.9	58.9	57.3
52.5°	3723.6	1446.2	274.4	163.8	124.3	96.0	71.0	57.3	51.6	48.4	46.8
55°	3998.0	1494.6	251.0	143.7	110.6	81.5	58.9	47.6	42.8	38.7	37.9
57.5°	4320.8	1569.7	226.8	124.3	94.4	67.8	48.4	37.9	33.9	29.9	29.1
60°	4756.6	1657.6	200.9	109.8	77.5	55.7	39.5	30.7	25.8	22.6	21.8
62.5°	5331.2	1755.3	168.7	96.0	62.9	45.2	31.5	24.2	18.6	14.5	14.5
65°	6059.9	1914.3	138.0	80.7	51.6	37.1	24.2	17.8	10.5	6.5	6.5
67.5°	6485.2	1941.7	111.4	66.2	42.0	31.5	20.2	12.1	3.2	0.8	0.0
69°	6348.9	1782.7	94.4	56.5	36.3	29.9	18.6	8.9	1.6	0.0	0.0
70°	6092.2	1630.2	83.1	50.0	33.1	28.2	17.8	6.5	1.6	0.0	0.0
72.5°	5034.2	1160.5	62.9	37.1	24.2	25.0	16.1	4.0	1.6	0.0	0.0
75°	3667.1	705.3	45.2	25.8	15.3	18.6	11.3	1.6	0.8	0.0	0.0
77.5°	2040.2	332.5	28.2	14.5	9.7	11.3	5.6	0.0	0.0	0.0	0.0
80°	662.6	90.4	12.9	8.1	5.6	6.5	2.4	0.0	0.0	0.0	0.0
82.5°	122.7	25.8	7.3	4.0	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	26.6	10.5	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	3.2	0.8	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)