

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: P324713

Luminaire Tested: **GAN-SA9A-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28523 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

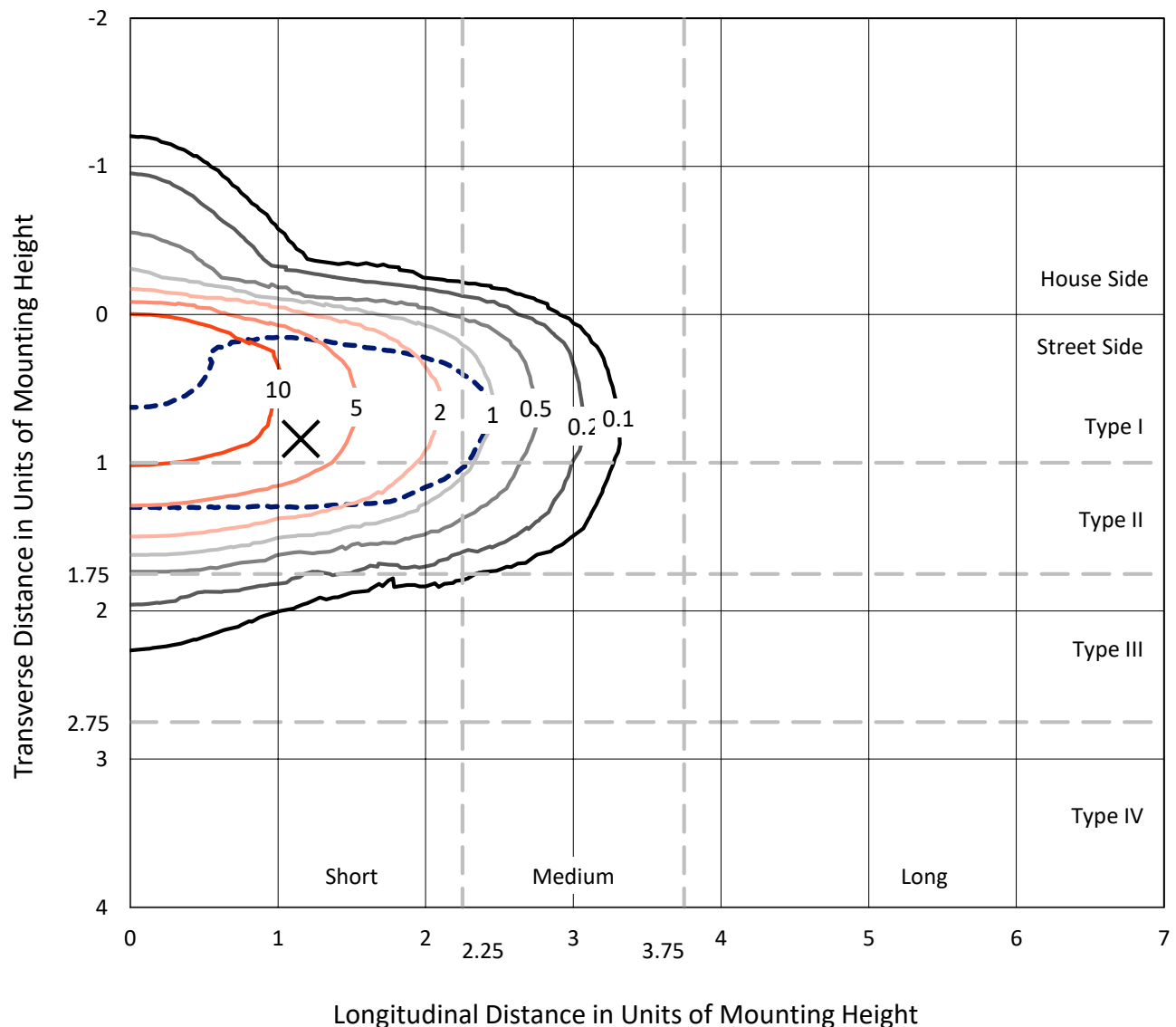
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324713
 CATALOG NUMBER: GAN-SA9A-727-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

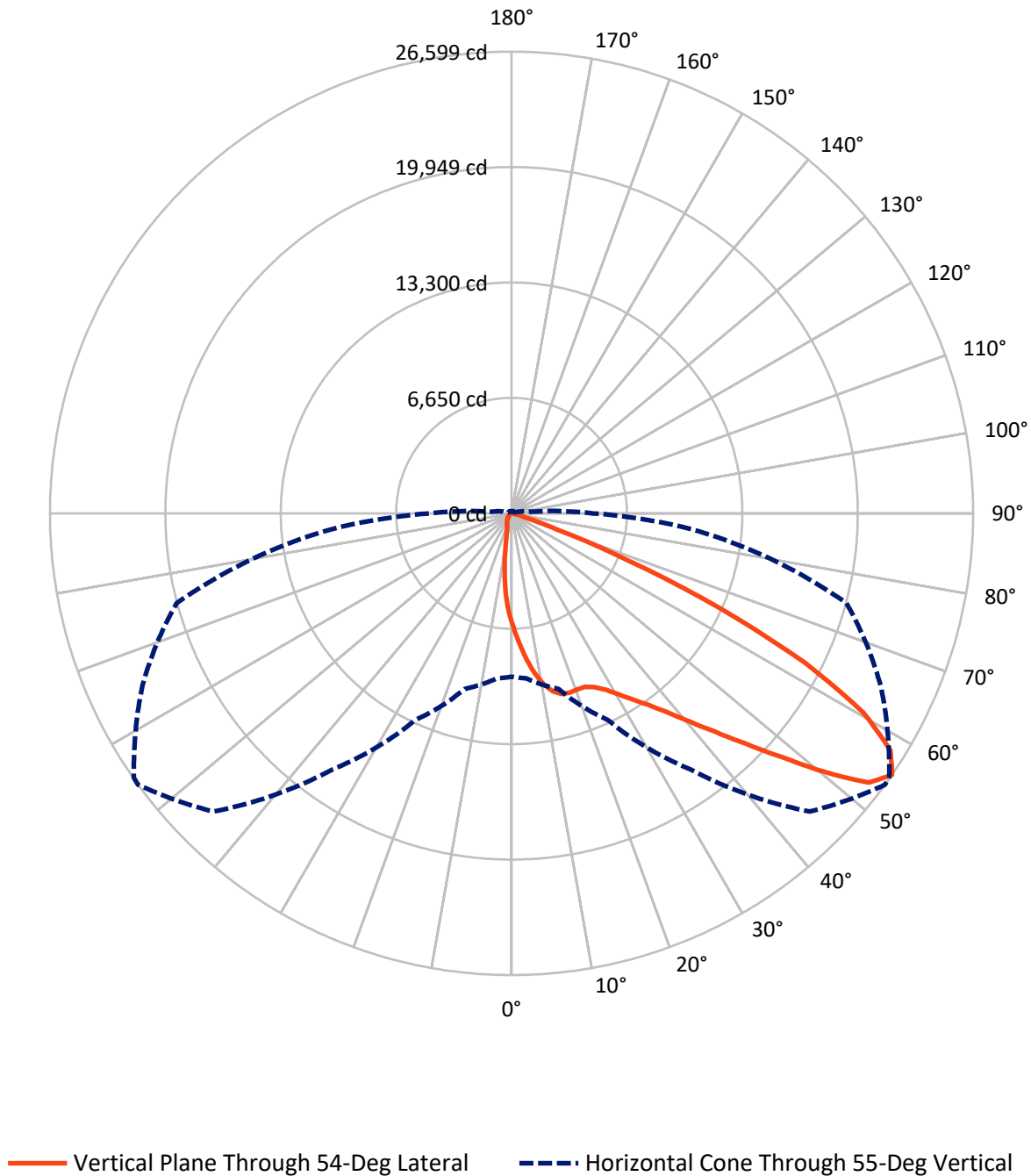
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Short - N/A

REPORT NUMBER: P324713
CATALOG NUMBER: GAN-SA9A-727-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324713

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1423.1	0.0	1423.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	27099.9	0.0	27099.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	28523.0	0.0	28523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.3	2.1
10°-20°	1613.3	5.7
20°-30°	2754.5	9.7
30°-40°	4420.5	15.5
40°-50°	7064.0	24.8
50°-60°	7569.2	26.5
60°-70°	3886.3	13.6
70°-80°	588.7	2.1
80°-90°	38.3	0.1
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°	28523.0	100.0
0°-180°	28523.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324713

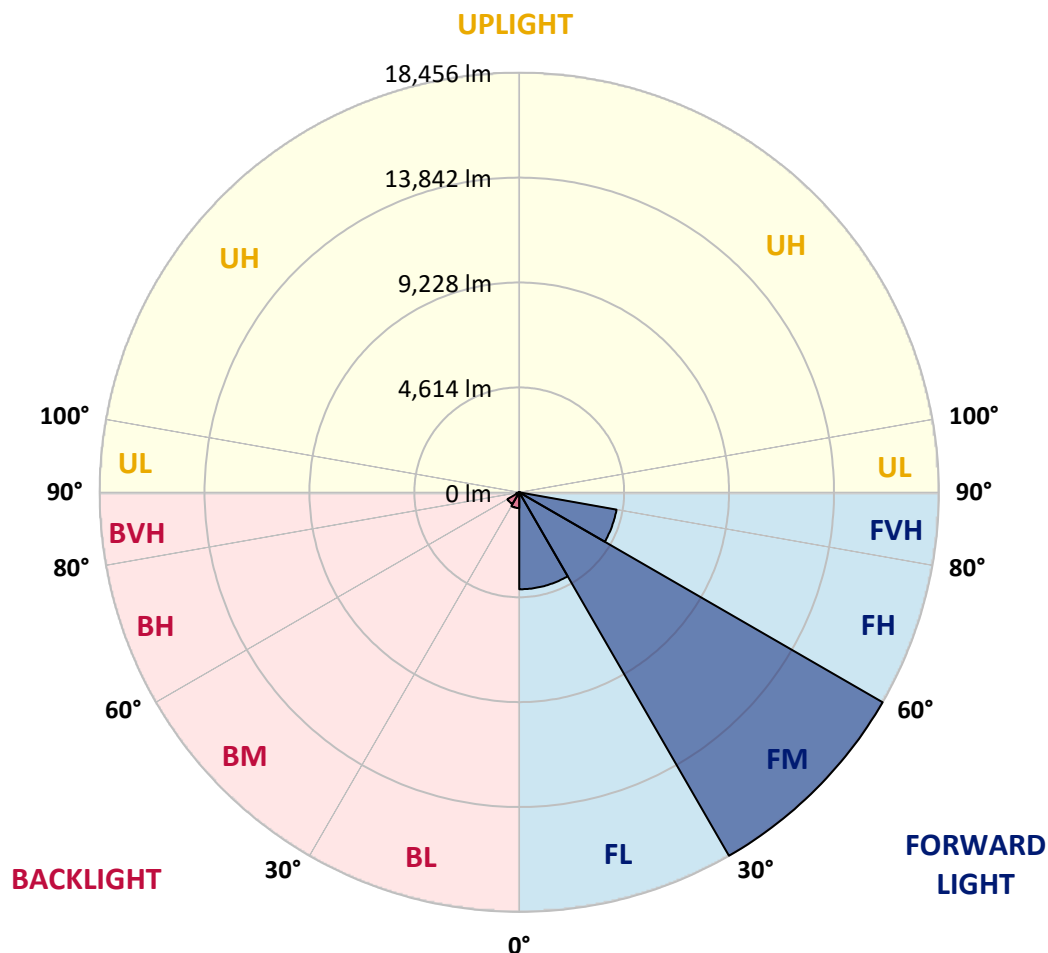
CATALOG NUMBER: GAN-SA9A-727-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4263.7	14.9			
FM	(30°-60°)	18455.6	64.7			
FH	(60°-80°)	4343.8	15.2			G2/5000
FVH	(80°-90°)	36.8	0.1			G1/100
BL	(0°-30°)	692.4	2.4	B2/1000		
BM	(30°-60°)	598.0	2.1	B1/1000		
BH	(60°-80°)	131.1	0.5	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





REPORT NUMBER: P324713

CATALOG NUMBER: GAN-SA9A-727-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6388.0	6388.0	6388.0	6388.0	6388.0	6388.0	6388.0	6388.0	6388.0	6388.0	6388.0
2.5°	8016.4	7896.9	7900.6	7846.4	7648.1	7492.9	7331.6	7293.4	7042.1	6778.5	6524.7
5°	9402.2	9314.7	9293.8	9189.1	8913.2	8621.2	8308.4	8235.7	7744.2	7204.7	6673.8
7.5°	10114.1	10115.4	10098.1	10059.9	9887.5	9604.2	9222.3	9146.0	8477.1	7667.8	6829.0
10°	9907.2	9954.0	10050.1	10177.0	10308.8	10273.0	9986.0	9917.1	9190.3	8158.1	7001.4
12.5°	9424.3	9430.5	9537.7	9745.8	10125.2	10514.5	10519.4	10496.0	9871.5	8670.5	7191.1
15°	9184.1	9207.5	9247.0	9381.2	9740.9	10364.2	10810.1	10843.4	10496.0	9214.9	7393.1
17.5°	9341.8	9375.1	9341.8	9357.8	9566.0	10126.5	10860.6	10945.6	11041.7	9753.2	7584.1
20°	9769.2	9800.0	9740.9	9675.6	9716.3	10057.5	10824.9	10939.4	11469.1	10231.2	7744.2
22.5°	10345.7	10358.0	10268.1	10160.9	10131.4	10291.5	10854.4	10972.7	11811.5	10663.5	7845.2
25°	10980.1	10991.2	10879.1	10755.9	10685.7	10751.0	11097.1	11185.8	12113.3	11076.2	7903.1
27.5°	11671.1	11681.0	11540.5	11389.0	11307.7	11310.2	11497.4	11592.3	12434.8	11546.7	7949.9
30°	12401.6	12396.6	12267.3	12056.7	11953.2	11950.7	12073.9	12170.0	12900.4	12150.3	8014.0
32.5°	13221.9	13212.1	13028.5	12767.4	12650.4	12667.6	12777.2	12832.7	13478.1	12793.3	8128.5
35°	14302.2	14273.9	13996.7	13672.7	13457.2	13451.0	13543.4	13587.8	14214.7	13571.7	8319.4
37.5°	15704.0	15678.1	15302.4	14831.9	14528.8	14415.5	14525.1	14581.8	15265.4	14570.7	8626.2
40°	17086.0	17060.1	16837.2	16406.1	15939.2	15667.0	15753.2	15813.6	16577.3	15782.8	9012.9
42.5°	18039.4	18061.6	18139.2	18174.9	17737.6	17166.1	17205.5	17268.3	17955.6	17078.6	9455.1
45°	18290.7	18338.7	18777.2	19638.3	19802.1	19356.2	18943.5	18978.0	19356.2	18374.5	9897.3
47.5°	17535.6	17624.3	18470.5	20071.8	21458.8	21774.2	20993.2	20947.6	20700.1	19422.7	10211.5
50°	15819.7	15901.0	16997.3	19366.0	21961.4	24082.5	23449.4	23315.1	21878.9	20049.7	10322.3
52.5°	13336.5	13435.0	14325.6	17143.9	21014.2	25112.3	25775.0	25662.9	22743.6	20098.9	10340.8
55°	9418.2	9537.7	10480.0	13139.4	18012.3	24293.2	26599.0	26565.8	23461.7	19968.4	10380.2
57.5°	5293.0	5379.2	6395.4	8422.9	13192.4	21159.5	25738.0	25958.5	23895.3	19741.7	10439.3
60°	2350.2	2373.6	2899.6	4193.0	7723.3	16170.8	23273.2	23645.2	23523.3	19438.7	10539.1
62.5°	1303.2	1283.5	1283.5	1743.0	3356.6	10010.7	18978.0	19592.7	21935.5	19080.3	10544.0
65°	1021.1	1002.7	949.7	957.1	1278.6	4443.0	13141.9	14234.4	18920.1	18029.6	10189.3
67.5°	865.9	849.9	797.0	776.0	794.5	1465.8	7220.7	8355.2	14356.4	15298.7	8825.7
70°	731.7	720.6	693.5	667.6	620.8	724.3	2762.9	3534.0	8846.6	10177.0	6024.6
72.5°	588.8	583.9	593.7	571.5	514.9	482.9	944.8	1144.3	3973.7	4541.6	2482.0
75°	507.5	505.0	510.0	487.8	423.7	336.3	480.4	524.7	1120.9	1111.1	502.6
77.5°	330.1	333.8	422.5	412.6	364.6	224.2	248.8	268.5	340.0	255.0	152.7
80°	210.6	208.2	214.3	342.4	327.7	171.2	124.4	130.6	163.8	125.6	73.9
82.5°	128.1	125.6	140.4	160.1	165.1	119.5	76.4	77.6	102.2	81.3	39.4
85°	11.1	14.8	85.0	78.8	56.7	37.0	37.0	39.4	54.2	48.0	22.2
87.5°	0.0	0.0	14.8	22.2	12.3	13.5	13.5	14.8	20.9	20.9	11.1
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: P324713

CATALOG NUMBER: GAN-SA9A-727-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6388.0	6388.0	6388.0	6388.0	6388.0	6388.0	6388.0	6388.0	6388.0	6388.0	6388.0
2.5°	6392.9	6264.8	6006.2	5757.3	5546.7	5343.5	5111.9	4882.8	4775.6	4732.5	4688.2
5°	6404.0	6140.4	5607.1	5070.0	4513.2	4011.9	3584.5	3146.0	2926.7	2830.6	2786.3
7.5°	6418.8	6017.2	5155.0	4253.3	3356.6	2676.7	2082.9	1701.1	1536.0	1510.2	1446.1
10°	6421.3	5868.2	4630.3	3351.7	2250.5	1613.6	1241.6	1044.5	971.9	959.6	938.6
12.5°	6426.2	5692.1	4047.6	2482.0	1500.3	1079.0	898.0	832.7	813.0	811.7	811.7
15°	6441.0	5507.3	3442.8	1788.5	1077.8	854.9	788.3	762.5	755.1	758.8	757.5
17.5°	6441.0	5289.3	2849.1	1332.8	870.9	768.6	731.7	714.4	712.0	715.7	716.9
20°	6394.2	5024.4	2304.7	1037.2	772.3	713.2	679.9	663.9	657.8	660.2	661.5
22.5°	6282.1	4699.2	1861.2	858.6	707.0	662.7	627.0	602.3	592.5	593.7	593.7
25°	6107.2	4313.7	1456.0	742.8	654.1	608.5	566.6	538.3	532.1	530.9	533.4
27.5°	5883.0	3887.5	1159.1	654.1	591.3	548.1	506.3	482.9	477.9	479.2	480.4
30°	5662.5	3445.3	914.0	578.9	521.0	480.4	448.4	437.3	437.3	441.0	442.2
32.5°	5460.5	3020.3	723.1	513.7	458.2	421.3	402.8	401.6	407.7	410.2	411.4
35°	5286.8	2627.4	598.6	463.1	409.0	376.9	370.8	375.7	383.1	388.0	389.2
37.5°	5163.6	2276.3	523.5	421.3	370.8	344.9	343.7	353.5	363.4	374.5	376.9
40°	5111.9	1979.5	471.8	384.3	340.0	320.3	316.6	330.1	348.6	364.6	367.1
42.5°	5068.8	1736.8	427.4	348.6	315.3	287.0	285.8	303.0	325.2	341.2	344.9
45°	5031.8	1542.2	386.8	310.4	283.3	246.4	250.1	272.2	289.5	306.7	310.4
47.5°	4955.4	1382.1	342.4	269.8	234.0	210.6	218.0	237.7	251.3	277.2	280.8
50°	4818.7	1251.5	296.9	220.5	190.9	182.3	193.4	206.9	224.2	246.4	248.8
52.5°	4726.3	1152.9	257.4	184.8	157.7	160.1	171.2	176.1	186.0	194.6	192.2
55°	4673.4	1098.7	225.4	160.1	134.3	141.7	144.1	138.0	133.0	124.4	120.7
57.5°	4667.2	1049.5	200.8	139.2	118.3	121.9	113.3	92.4	75.1	65.3	62.8
60°	4657.4	989.1	181.1	117.0	104.7	99.8	81.3	50.5	35.7	33.3	33.3
62.5°	4550.2	895.5	166.3	98.5	88.7	75.1	46.8	23.4	19.7	20.9	20.9
65°	4209.0	764.9	151.5	80.1	70.2	54.2	23.4	13.5	7.4	8.6	8.6
67.5°	3578.3	609.7	135.5	61.6	53.0	34.5	13.5	6.2	0.0	0.0	0.0
70°	2395.8	378.2	114.6	43.1	34.5	20.9	9.9	1.2	0.0	0.0	0.0
72.5°	918.9	204.5	92.4	25.9	22.2	14.8	6.2	0.0	0.0	0.0	0.0
75°	206.9	134.3	64.1	18.5	16.0	9.9	2.5	0.0	0.0	0.0	0.0
77.5°	78.8	97.3	37.0	12.3	11.1	6.2	0.0	0.0	0.0	0.0	0.0
80°	38.2	57.9	17.2	7.4	6.2	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	19.7	22.2	7.4	3.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.1	11.1	3.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	3.7	1.2	1.2	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)