

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: P324739

Luminaire Tested: **GAN-SA5D-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324739
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-SA5D-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA 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: 26548 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

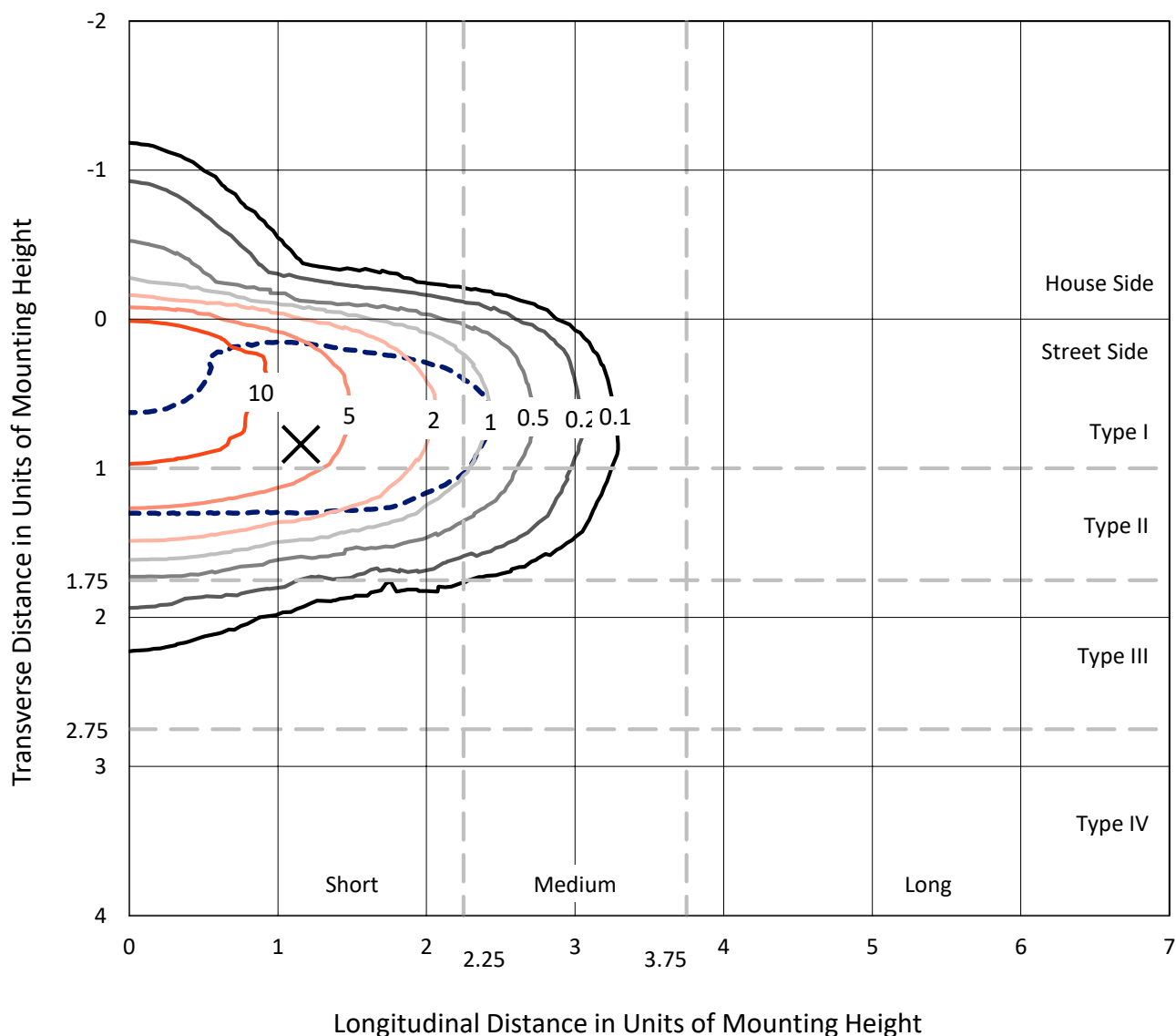
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P324739
 CATALOG NUMBER: GAN-SA5D-727-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

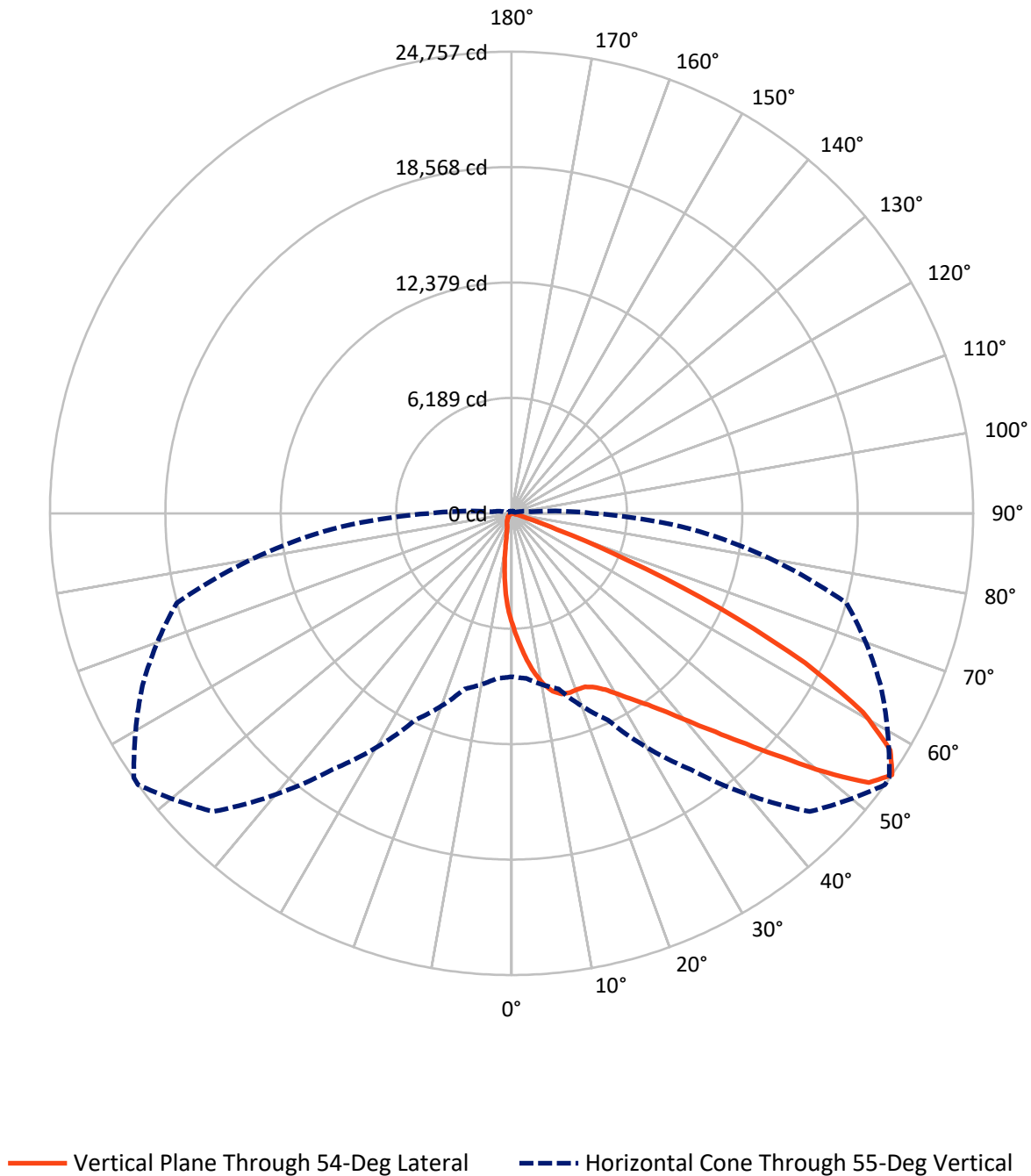
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - N/A

REPORT NUMBER: P324739
CATALOG NUMBER: GAN-SA5D-727-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P324739

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1324.5	0.0	1324.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	25223.5	0.0	25223.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	26548.0	0.0	26548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.5	2.1
10°-20°	1501.6	5.7
20°-30°	2563.8	9.7
30°-40°	4114.4	15.5
40°-50°	6574.8	24.8
50°-60°	7045.1	26.5
60°-70°	3617.2	13.6
70°-80°	547.9	2.1
80°-90°	35.7	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°	26548.0	100.0
0°-180°	26548.0	100.0

Coefficient of Utilization



REPORT NUMBER: P324739

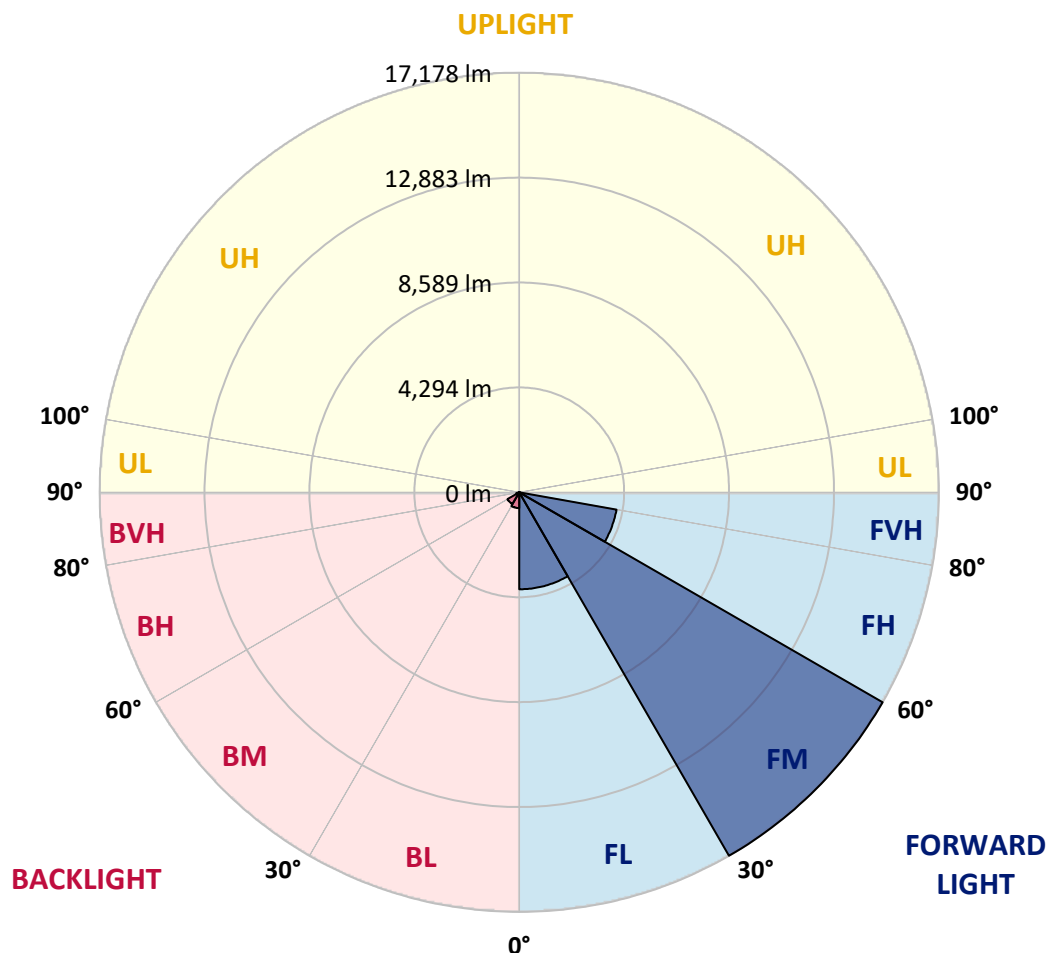
CATALOG NUMBER: GAN-SA5D-727-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3968.5	14.9			
FM	(30°-60°)	17177.7	64.7			
FH	(60°-80°)	4043.0	15.2			G2/5000
FVH	(80°-90°)	34.2	0.1			G1/100
BL	(0°-30°)	644.4	2.4	B2/1000		
BM	(30°-60°)	556.6	2.1	B1/1000		
BH	(60°-80°)	122.1	0.5	B1/500		G1/500
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P324739

CATALOG NUMBER: GAN-SA5D-727-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7
2.5°	7461.3	7350.1	7353.6	7303.1	7118.5	6974.1	6823.9	6788.4	6554.5	6309.1	6072.9
5°	8751.1	8669.7	8650.3	8552.8	8296.0	8024.3	7733.1	7665.4	7208.0	6705.8	6211.7
7.5°	9413.8	9415.0	9398.9	9363.4	9202.9	8939.2	8583.8	8512.7	7890.1	7136.9	6356.1
10°	9221.2	9264.8	9354.2	9472.3	9595.0	9561.7	9294.6	9230.4	8553.9	7593.2	6516.6
12.5°	8771.8	8777.5	8877.3	9071.0	9424.1	9786.4	9791.0	9769.2	9188.0	8070.1	6693.2
15°	8548.2	8570.0	8606.7	8731.7	9066.4	9646.5	10061.6	10092.5	9769.2	8576.9	6881.2
17.5°	8695.0	8725.9	8695.0	8709.9	8903.6	9425.3	10108.6	10187.7	10277.1	9077.9	7058.9
20°	9092.8	9121.5	9066.4	9005.7	9043.5	9361.1	10075.3	10182.0	10674.9	9522.7	7208.0
22.5°	9629.4	9640.8	9557.1	9457.4	9429.9	9578.9	10102.9	10212.9	10993.7	9925.1	7302.0
25°	10219.8	10230.1	10125.8	10011.1	9945.8	10006.5	10328.7	10411.3	11274.6	10309.2	7355.9
27.5°	10863.0	10872.1	10741.4	10600.4	10524.8	10527.1	10701.3	10789.6	11573.8	10747.2	7399.4
30°	11542.8	11538.3	11417.9	11221.8	11125.5	11123.2	11237.9	11327.3	12007.2	11309.0	7459.1
32.5°	12306.4	12297.2	12126.4	11883.3	11774.4	11790.5	11892.5	11944.1	12544.9	11907.4	7565.7
35°	13311.9	13285.5	13027.5	12726.0	12525.4	12519.6	12605.6	12646.9	13230.5	12632.0	7743.4
37.5°	14616.6	14592.5	14242.8	13804.9	13522.8	13417.3	13519.4	13572.1	14208.4	13561.8	8028.9
40°	15902.9	15878.9	15671.3	15270.1	14835.6	14582.2	14662.4	14718.6	15429.4	14690.0	8388.9
42.5°	16790.3	16811.0	16883.2	16916.4	16509.4	15977.5	16014.1	16072.6	16712.4	15896.1	8800.4
45°	17024.2	17068.9	17477.1	18278.5	18430.9	18015.9	17631.8	17663.9	18015.9	17102.2	9212.0
47.5°	16321.4	16403.9	17191.6	18682.0	19973.0	20266.5	19539.6	19497.2	19266.7	18077.8	9504.4
50°	14724.3	14800.0	15820.4	18025.1	20440.7	22415.0	21825.7	21700.7	20363.9	18661.4	9607.6
52.5°	12413.0	12504.7	13333.7	15956.8	19559.1	23373.4	23990.3	23885.9	21168.8	18707.2	9624.8
55°	8766.0	8877.3	9754.3	12229.6	16765.1	22611.0	24757.3	24726.3	21837.2	18585.7	9661.5
57.5°	4926.5	5006.7	5952.6	7839.7	12278.9	19694.4	23955.9	24161.1	22240.7	18374.8	9716.5
60°	2187.5	2209.3	2698.8	3902.6	7188.5	15051.1	21661.7	22008.0	21894.5	18092.7	9809.4
62.5°	1213.0	1194.6	1194.6	1622.3	3124.2	9317.5	17663.9	18236.0	20416.7	17759.1	9813.9
65°	950.4	933.2	883.9	890.8	1190.1	4135.4	12231.9	13248.8	17610.1	16781.1	9483.7
67.5°	806.0	791.1	741.8	722.3	739.5	1364.3	6720.7	7776.6	13362.3	14239.4	8214.6
70°	681.0	670.7	645.5	621.4	577.8	674.1	2571.6	3289.3	8234.1	9472.3	5607.5
72.5°	548.0	543.4	552.6	532.0	479.2	449.4	879.4	1065.1	3698.6	4227.1	2310.2
75°	472.4	470.1	474.6	454.0	394.4	313.0	447.1	488.4	1043.3	1034.1	467.8
77.5°	307.3	310.7	393.2	384.1	339.4	208.7	231.6	249.9	316.4	237.3	142.2
80°	196.0	193.8	199.5	318.7	305.0	159.4	115.8	121.5	152.5	116.9	68.8
82.5°	119.2	116.9	130.7	149.0	153.6	111.2	71.1	72.2	95.2	75.7	36.7
85°	10.3	13.8	79.1	73.4	52.7	34.4	34.4	36.7	50.4	44.7	20.6
87.5°	0.0	0.0	13.8	20.6	11.5	12.6	12.6	13.8	19.5	19.5	10.3
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: P324739

CATALOG NUMBER: GAN-SA5D-727-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7	5945.7
2.5°	5950.3	5831.0	5590.3	5358.7	5162.6	4973.5	4757.9	4544.7	4444.9	4404.8	4363.5
5°	5960.6	5715.2	5218.8	4718.9	4200.7	3734.1	3336.3	2928.1	2724.1	2634.6	2593.4
7.5°	5974.3	5600.6	4798.1	3958.8	3124.2	2491.3	1938.7	1583.3	1429.7	1405.6	1346.0
10°	5976.6	5461.9	4309.6	3119.6	2094.6	1501.9	1155.7	972.2	904.6	893.1	873.6
12.5°	5981.2	5297.9	3767.4	2310.2	1396.4	1004.3	835.8	775.0	756.7	755.5	755.5
15°	5995.0	5125.9	3204.4	1664.7	1003.2	795.7	733.8	709.7	702.8	706.2	705.1
17.5°	5995.0	4923.0	2651.8	1240.5	810.6	715.4	681.0	665.0	662.7	666.1	667.3
20°	5951.4	4676.5	2145.1	965.3	718.8	663.8	632.9	618.0	612.2	614.5	615.7
22.5°	5847.1	4373.9	1732.3	799.1	658.1	616.8	583.6	560.6	551.5	552.6	552.6
25°	5684.3	4015.0	1355.1	691.3	608.8	566.4	527.4	501.0	495.3	494.1	496.4
27.5°	5475.6	3618.3	1078.8	608.8	550.3	510.2	471.2	449.4	444.8	446.0	447.1
30°	5270.4	3206.7	850.7	538.8	485.0	447.1	417.3	407.0	407.0	410.4	411.6
32.5°	5082.4	2811.2	673.0	478.1	426.5	392.1	374.9	373.8	379.5	381.8	382.9
35°	4920.7	2445.5	557.2	431.1	380.6	350.8	345.1	349.7	356.6	361.1	362.3
37.5°	4806.1	2118.7	487.3	392.1	345.1	321.0	319.9	329.0	338.2	348.5	350.8
40°	4757.9	1842.4	439.1	357.7	316.4	298.1	294.6	307.3	324.5	339.4	341.7
42.5°	4717.8	1616.5	397.8	324.5	293.5	267.1	266.0	282.0	302.7	317.6	321.0
45°	4683.4	1435.4	360.0	288.9	263.7	229.3	232.7	253.4	269.4	285.5	288.9
47.5°	4612.3	1286.4	318.7	251.1	217.8	196.0	202.9	221.3	233.9	258.0	261.4
50°	4485.1	1164.8	276.3	205.2	177.7	169.7	180.0	192.6	208.7	229.3	231.6
52.5°	4399.1	1073.1	239.6	172.0	146.8	149.0	159.4	163.9	173.1	181.1	178.9
55°	4349.8	1022.7	209.8	149.0	125.0	131.8	134.1	128.4	123.8	115.8	112.4
57.5°	4344.0	976.8	186.9	129.6	110.1	113.5	105.5	86.0	69.9	60.8	58.5
60°	4334.9	920.6	168.5	108.9	97.5	92.9	75.7	47.0	33.2	31.0	31.0
62.5°	4235.1	833.5	154.8	91.7	82.5	69.9	43.6	21.8	18.3	19.5	19.5
65°	3917.5	712.0	141.0	74.5	65.3	50.4	21.8	12.6	6.9	8.0	8.0
67.5°	3330.5	567.5	126.1	57.3	49.3	32.1	12.6	5.7	0.0	0.0	0.0
70°	2229.9	352.0	106.6	40.1	32.1	19.5	9.2	1.1	0.0	0.0	0.0
72.5°	855.3	190.3	86.0	24.1	20.6	13.8	5.7	0.0	0.0	0.0	0.0
75°	192.6	125.0	59.6	17.2	14.9	9.2	2.3	0.0	0.0	0.0	0.0
77.5°	73.4	90.6	34.4	11.5	10.3	5.7	0.0	0.0	0.0	0.0	0.0
80°	35.5	53.9	16.1	6.9	5.7	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	18.3	20.6	6.9	3.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.3	10.3	3.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	3.4	1.1	1.1	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)