

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: P324717

Luminaire Tested: **GAN-SA3B-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324717
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-SA3B-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA 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: 11943 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

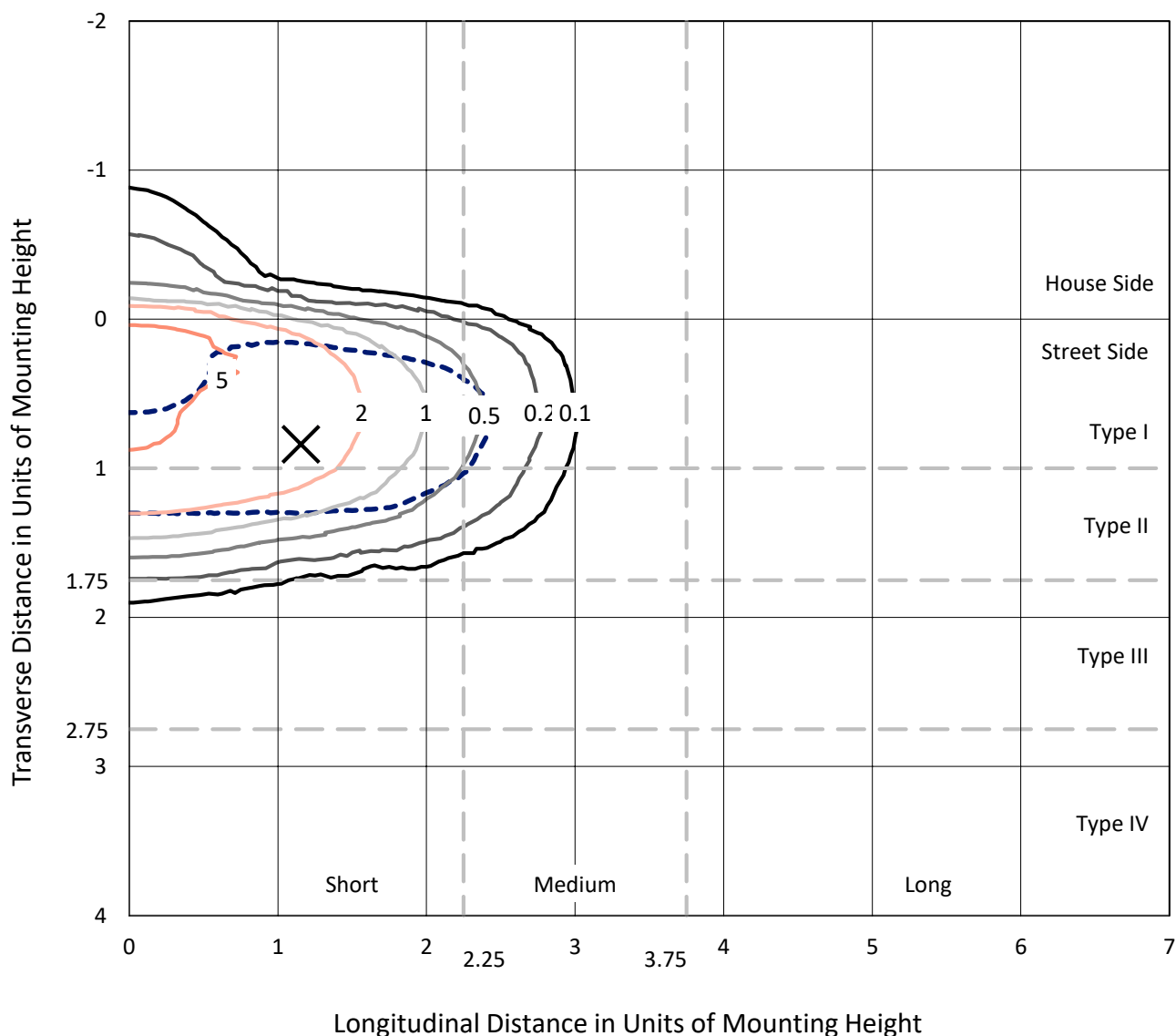
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

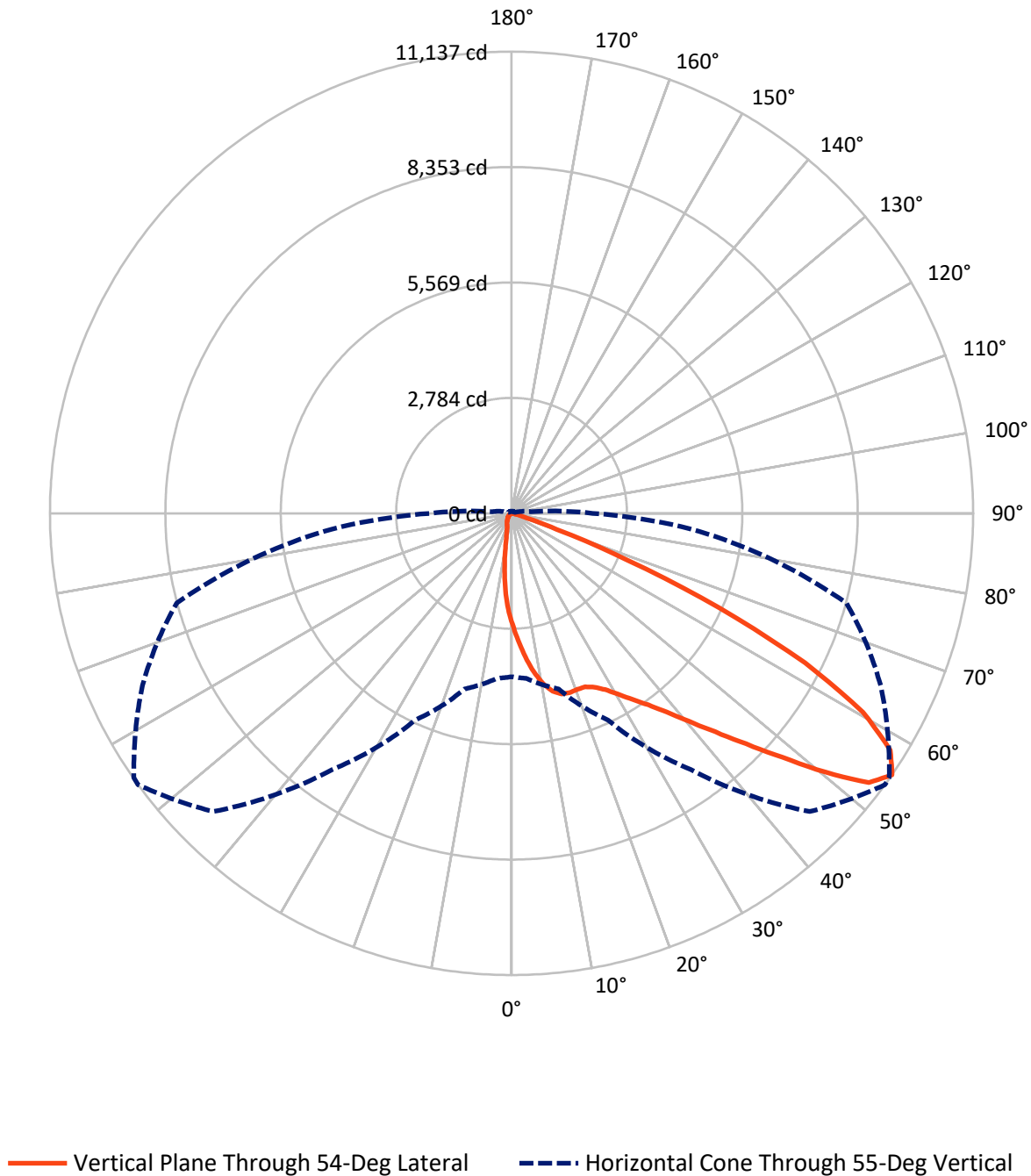
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	595.9	0.0	595.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	11347.1	0.0	11347.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	11943.0	0.0	11943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.3	2.1
10°-20°	675.5	5.7
20°-30°	1153.3	9.7
30°-40°	1850.9	15.5
40°-50°	2957.8	24.8
50°-60°	3169.3	26.5
60°-70°	1627.2	13.6
70°-80°	246.5	2.1
80°-90°	16.0	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°	11943.0	100.0
0°-180°	11943.0	100.0

Coefficient of Utilization



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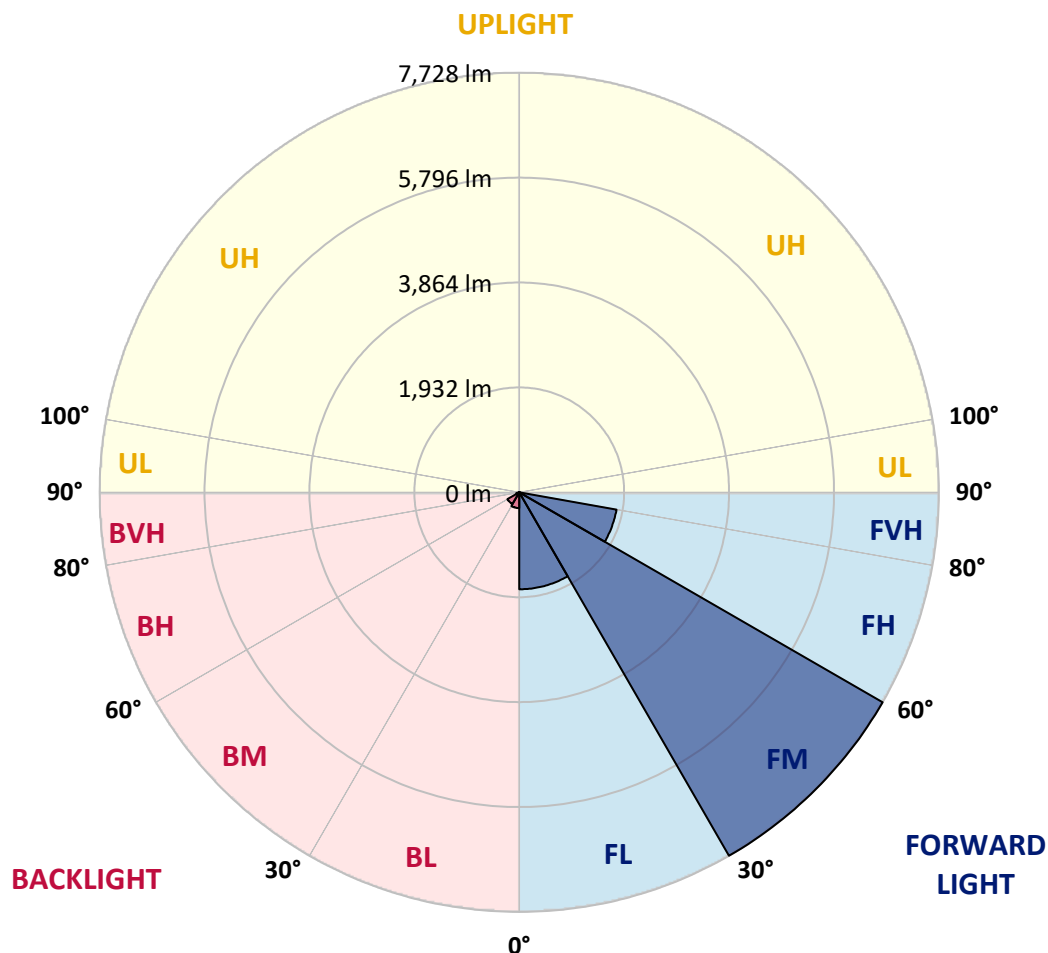
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1785.3	14.9			
FM	(30°-60°)	7727.6	64.7			
FH	(60°-80°)	1818.8	15.2			G2/5000
FVH	(80°-90°)	15.4	0.1			G1/100
BL	(0°-30°)	289.9	2.4	B1/500		
BM	(30°-60°)	250.4	2.1	B1/1000		
BH	(60°-80°)	54.9	0.5	B0/110		G0/110
BVH	(80°-90°)	0.6	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8
2.5°	3356.6	3306.6	3308.1	3285.4	3202.4	3137.4	3069.8	3053.8	2948.6	2838.2	2732.0
5°	3936.8	3900.2	3891.4	3847.6	3732.1	3609.8	3478.8	3448.4	3242.6	3016.7	2794.4
7.5°	4234.9	4235.5	4228.2	4212.2	4140.0	4021.4	3861.5	3829.5	3549.5	3210.6	2859.4
10°	4148.3	4167.9	4208.1	4261.2	4316.4	4301.5	4181.3	4152.4	3848.1	3415.9	2931.6
12.5°	3946.1	3948.7	3993.6	4080.7	4239.6	4402.6	4404.6	4394.8	4133.3	3630.5	3011.0
15°	3845.5	3855.3	3871.8	3928.1	4078.7	4339.6	4526.3	4540.3	4394.8	3858.4	3095.6
17.5°	3911.6	3925.5	3911.6	3918.3	4005.4	4240.1	4547.5	4583.1	4623.3	4083.8	3175.6
20°	4090.5	4103.4	4078.7	4051.3	4068.3	4211.2	4532.5	4580.5	4802.3	4283.9	3242.6
22.5°	4331.9	4337.1	4299.4	4254.5	4242.2	4309.2	4544.9	4594.4	4945.7	4465.0	3284.9
25°	4597.5	4602.2	4555.2	4503.7	4474.3	4501.6	4646.5	4683.7	5072.0	4637.8	3309.1
27.5°	4886.9	4891.0	4832.2	4768.8	4734.7	4735.7	4814.1	4853.9	5206.6	4834.8	3328.7
30°	5192.7	5190.7	5136.5	5048.3	5005.0	5003.9	5055.5	5095.7	5401.6	5087.5	3355.6
32.5°	5536.2	5532.1	5455.2	5345.9	5296.9	5304.1	5350.0	5373.2	5643.5	5356.7	3403.5
35°	5988.5	5976.7	5860.6	5725.0	5634.7	5632.1	5670.8	5689.4	5951.9	5682.7	3483.5
37.5°	6575.5	6564.6	6407.3	6210.3	6083.4	6036.0	6081.9	6105.6	6391.9	6101.0	3611.9
40°	7154.2	7143.3	7050.0	6869.5	6674.0	6560.0	6596.1	6621.4	6941.2	6608.5	3773.8
42.5°	7553.4	7562.6	7595.1	7610.1	7427.0	7187.7	7204.2	7230.5	7518.3	7151.1	3959.0
45°	7658.6	7678.7	7862.3	8222.8	8291.4	8104.7	7931.9	7946.4	8104.7	7693.7	4144.2
47.5°	7342.4	7379.6	7733.9	8404.4	8985.1	9117.2	8790.2	8771.1	8667.4	8132.6	4275.7
50°	6624.0	6658.0	7117.0	8108.8	9195.6	10083.7	9818.6	9762.4	9161.0	8395.1	4322.1
52.5°	5584.2	5625.4	5998.3	7178.4	8798.9	10514.9	10792.4	10745.4	9523.1	8415.7	4329.8
55°	3943.5	3993.6	4388.1	5501.7	7542.0	10171.9	11137.4	11123.5	9823.8	8361.1	4346.3
57.5°	2216.2	2252.3	2677.8	3526.8	5523.8	8859.8	10776.9	10869.2	10005.3	8266.2	4371.1
60°	984.1	993.9	1214.1	1755.7	3233.8	6771.0	9744.8	9900.6	9849.5	8139.3	4412.9
62.5°	545.7	537.4	537.4	729.8	1405.5	4191.6	7946.4	8203.7	9184.7	7989.2	4414.9
65°	427.6	419.8	397.7	400.7	535.4	1860.4	5502.7	5960.2	7922.1	7549.2	4266.4
67.5°	362.6	355.9	333.7	324.9	332.7	613.8	3023.4	3498.4	6011.2	6405.8	3695.4
70°	306.4	301.7	290.4	279.5	259.9	303.3	1156.9	1479.7	3704.2	4261.2	2522.6
72.5°	246.5	244.5	248.6	239.3	215.6	202.2	395.6	479.1	1663.9	1901.6	1039.3
75°	212.5	211.5	213.5	204.2	177.4	140.8	201.1	219.7	469.3	465.2	210.4
77.5°	138.2	139.8	176.9	172.8	152.7	93.9	104.2	112.4	142.4	106.8	64.0
80°	88.2	87.2	89.7	143.4	137.2	71.7	52.1	54.7	68.6	52.6	30.9
82.5°	53.6	52.6	58.8	67.0	69.1	50.0	32.0	32.5	42.8	34.0	16.5
85°	4.6	6.2	35.6	33.0	23.7	15.5	15.5	16.5	22.7	20.1	9.3
87.5°	0.0	0.0	6.2	9.3	5.2	5.7	5.7	6.2	8.8	8.8	4.6
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°	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8
2.5°	2676.8	2623.2	2514.9	2410.7	2322.5	2237.4	2140.4	2044.5	1999.6	1981.6	1963.0
5°	2681.5	2571.1	2347.8	2122.9	1889.8	1679.8	1500.9	1317.3	1225.5	1185.2	1166.7
7.5°	2687.6	2519.5	2158.5	1780.9	1405.5	1120.8	872.2	712.3	643.2	632.3	605.5
10°	2688.7	2457.1	1938.8	1403.4	942.3	675.7	519.9	437.4	406.9	401.8	393.0
12.5°	2690.7	2383.3	1694.8	1039.3	628.2	451.8	376.0	348.7	340.4	339.9	339.9
15°	2696.9	2306.0	1441.6	748.9	451.3	357.9	330.1	319.3	316.2	317.7	317.2
17.5°	2696.9	2214.7	1193.0	558.1	364.6	321.8	306.4	299.1	298.1	299.7	300.2
20°	2677.3	2103.8	965.0	434.3	323.4	298.6	284.7	278.0	275.4	276.4	277.0
22.5°	2630.4	1967.6	779.3	359.5	296.0	277.5	262.5	252.2	248.1	248.6	248.6
25°	2557.2	1806.2	609.6	311.0	273.9	254.8	237.3	225.4	222.8	222.3	223.3
27.5°	2463.3	1627.8	485.3	273.9	247.6	229.5	212.0	202.2	200.1	200.6	201.1
30°	2371.0	1442.6	382.7	242.4	218.2	201.1	187.7	183.1	183.1	184.6	185.2
32.5°	2286.4	1264.7	302.8	215.1	191.9	176.4	168.7	168.1	170.7	171.7	172.3
35°	2213.7	1100.1	250.7	193.9	171.2	157.8	155.2	157.3	160.4	162.5	163.0
37.5°	2162.1	953.1	219.2	176.4	155.2	144.4	143.9	148.0	152.2	156.8	157.8
40°	2140.4	828.8	197.5	160.9	142.4	134.1	132.6	138.2	146.0	152.7	153.7
42.5°	2122.4	727.2	179.0	146.0	132.0	120.2	119.7	126.9	136.2	142.9	144.4
45°	2106.9	645.7	161.9	130.0	118.6	103.2	104.7	114.0	121.2	128.4	130.0
47.5°	2074.9	578.7	143.4	113.0	98.0	88.2	91.3	99.5	105.2	116.0	117.6
50°	2017.7	524.0	124.3	92.3	79.9	76.3	81.0	86.6	93.9	103.2	104.2
52.5°	1979.0	482.8	107.8	77.4	66.0	67.0	71.7	73.8	77.9	81.5	80.5
55°	1956.8	460.1	94.4	67.0	56.2	59.3	60.3	57.8	55.7	52.1	50.5
57.5°	1954.2	439.4	84.1	58.3	49.5	51.1	47.5	38.7	31.5	27.3	26.3
60°	1950.1	414.2	75.8	49.0	43.8	41.8	34.0	21.1	15.0	13.9	13.9
62.5°	1905.2	375.0	69.6	41.3	37.1	31.5	19.6	9.8	8.3	8.8	8.8
65°	1762.4	320.3	63.4	33.5	29.4	22.7	9.8	5.7	3.1	3.6	3.6
67.5°	1498.3	255.3	56.7	25.8	22.2	14.4	5.7	2.6	0.0	0.0	0.0
70°	1003.2	158.3	48.0	18.1	14.4	8.8	4.1	0.5	0.0	0.0	0.0
72.5°	384.8	85.6	38.7	10.8	9.3	6.2	2.6	0.0	0.0	0.0	0.0
75°	86.6	56.2	26.8	7.7	6.7	4.1	1.0	0.0	0.0	0.0	0.0
77.5°	33.0	40.7	15.5	5.2	4.6	2.6	0.0	0.0	0.0	0.0	0.0
80°	16.0	24.2	7.2	3.1	2.6	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.3	9.3	3.1	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	4.6	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.5	0.5	0.5	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)