

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: P324867

Luminaire Tested: **GAN-SA3A-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324867
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-SA3A-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 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: 11646 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

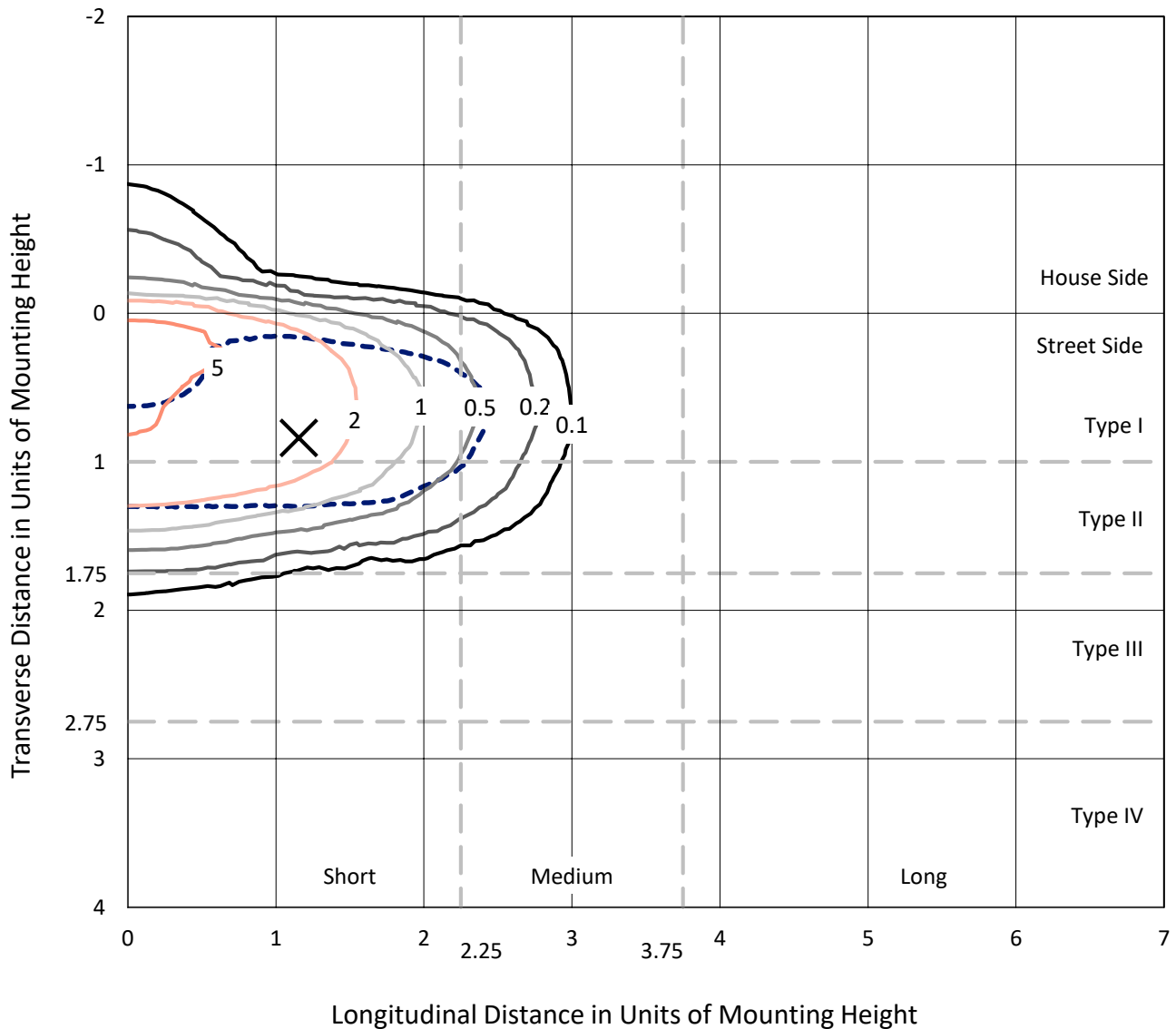
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

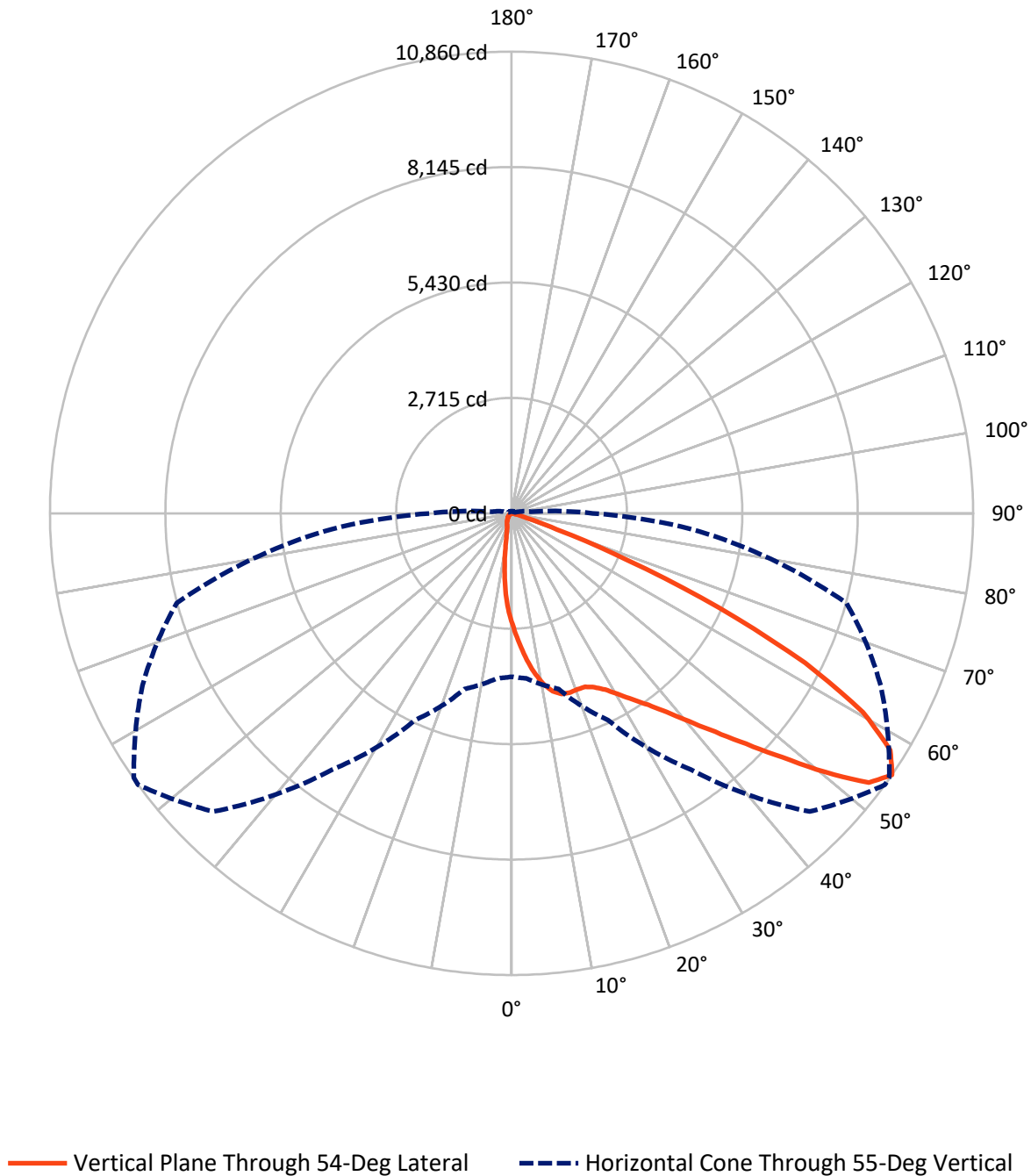
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	581.0	0.0	581.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	11065.0	0.0	11065.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	11646.0	0.0	11646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.2	2.1
10°-20°	658.7	5.7
20°-30°	1124.7	9.7
30°-40°	1804.9	15.5
40°-50°	2884.2	24.8
50°-60°	3090.5	26.5
60°-70°	1586.8	13.6
70°-80°	240.4	2.1
80°-90°	15.6	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°	11646.0	100.0
0°-180°	11646.0	100.0

Coefficient of Utilization



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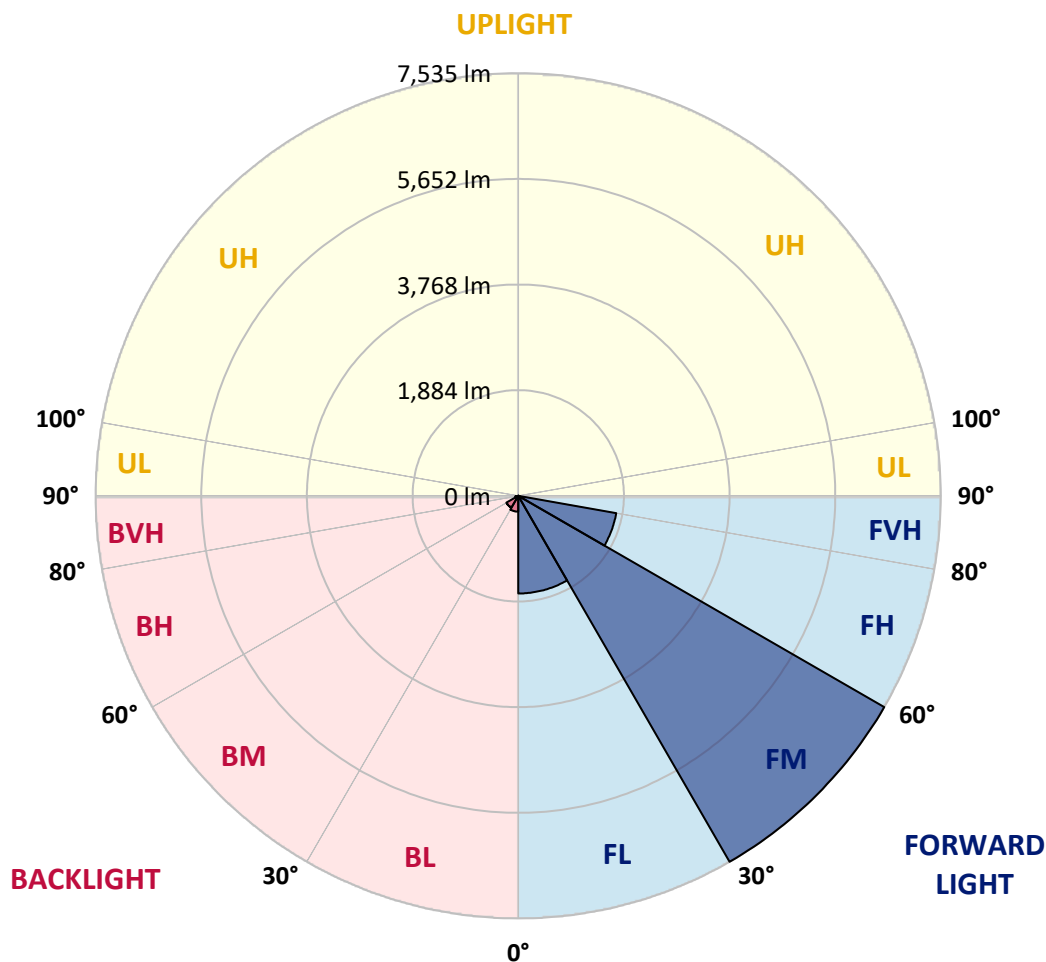
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1740.9	14.9			
FM	(30°-60°)	7535.5	64.7			
FH	(60°-80°)	1773.6	15.2			G1/1800
FVH	(80°-90°)	15.0	0.1			G1/100
BL	(0°-30°)	282.7	2.4	B1/500		
BM	(30°-60°)	244.2	2.1	B1/1000		
BH	(60°-80°)	53.5	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2
2.5°	3273.1	3224.3	3225.8	3203.7	3122.7	3059.4	2993.5	2977.9	2875.3	2767.7	2664.1
5°	3838.9	3803.2	3794.7	3751.9	3639.3	3520.1	3392.3	3362.6	3162.0	2941.7	2724.9
7.5°	4129.6	4130.1	4123.1	4107.5	4037.1	3921.4	3765.5	3734.3	3461.2	3130.8	2788.3
10°	4045.1	4064.2	4103.5	4155.3	4209.1	4194.5	4077.3	4049.2	3752.4	3331.0	2858.7
12.5°	3848.0	3850.5	3894.2	3979.2	4134.2	4293.1	4295.1	4285.5	4030.5	3540.2	2936.2
15°	3749.9	3759.5	3775.6	3830.4	3977.2	4231.7	4413.8	4427.4	4285.5	3762.5	3018.6
17.5°	3814.3	3827.9	3814.3	3820.8	3905.8	4134.7	4434.4	4469.1	4508.3	3982.3	3096.6
20°	3988.8	4001.4	3977.2	3950.6	3967.2	4106.5	4419.8	4466.6	4682.9	4177.4	3162.0
22.5°	4224.2	4229.2	4192.5	4148.7	4136.7	4202.0	4431.9	4480.2	4822.7	4353.9	3203.2
25°	4483.2	4487.7	4441.9	4391.7	4363.0	4389.6	4531.0	4567.2	4945.9	4522.4	3226.9
27.5°	4765.3	4769.4	4712.0	4650.2	4617.0	4618.0	4694.4	4733.1	5077.2	4714.5	3246.0
30°	5063.6	5061.6	5008.8	4922.8	4880.5	4879.5	4929.8	4969.0	5267.3	4961.0	3272.1
32.5°	5398.5	5394.5	5319.6	5213.0	5165.2	5172.2	5217.0	5239.6	5503.1	5223.5	3318.9
35°	5839.6	5828.0	5714.9	5582.6	5494.6	5492.1	5529.8	5547.9	5803.9	5541.4	3396.8
37.5°	6412.0	6401.4	6248.0	6055.9	5932.2	5885.9	5930.6	5953.8	6232.9	5949.3	3522.1
40°	6976.3	6965.7	6874.7	6698.6	6508.0	6396.9	6432.1	6456.7	6768.5	6444.1	3680.0
42.5°	7365.5	7374.6	7406.3	7420.9	7242.3	7008.9	7025.0	7050.7	7331.3	6973.2	3860.6
45°	7468.1	7487.7	7666.8	8018.3	8085.2	7903.2	7734.7	7748.8	7903.2	7502.3	4041.1
47.5°	7159.8	7196.0	7541.6	8195.4	8761.7	8890.4	8571.6	8553.0	8451.9	7930.3	4169.4
50°	6459.2	6492.4	6940.0	7907.2	8966.9	9832.9	9574.4	9519.6	8933.2	8186.3	4214.6
52.5°	5445.3	5485.5	5849.2	6999.9	8580.1	10253.4	10524.0	10478.2	9286.2	8206.4	4222.2
55°	3845.5	3894.2	4279.0	5364.8	7354.5	9918.9	10860.4	10846.9	9579.5	8153.1	4238.3
57.5°	2161.1	2196.3	2611.3	3439.1	5386.5	8639.5	10508.9	10598.9	9756.5	8060.6	4262.4
60°	959.6	969.2	1183.9	1712.0	3153.4	6602.6	9502.5	9654.4	9604.6	7936.9	4303.1
62.5°	532.1	524.1	524.1	711.7	1370.5	4087.4	7748.8	7999.7	8956.3	7790.5	4305.1
65°	416.9	409.4	387.8	390.8	522.0	1814.1	5365.8	5812.0	7725.1	7361.5	4160.3
67.5°	353.6	347.0	325.4	316.9	324.4	598.5	2948.2	3411.4	5861.7	6246.5	3603.6
70°	298.7	294.2	283.2	272.6	253.5	295.7	1128.1	1442.9	3612.1	4155.3	2459.9
72.5°	240.4	238.4	242.4	233.4	210.2	197.2	385.8	467.2	1622.5	1854.3	1013.4
75°	207.2	206.2	208.2	199.2	173.0	137.3	196.1	214.3	457.7	453.7	205.2
77.5°	134.8	136.3	172.5	168.5	148.9	91.5	101.6	109.6	138.8	104.1	62.4
80°	86.0	85.0	87.5	139.8	133.8	69.9	50.8	53.3	66.9	51.3	30.2
82.5°	52.3	51.3	57.3	65.4	67.4	48.8	31.2	31.7	41.7	33.2	16.1
85°	4.5	6.0	34.7	32.2	23.1	15.1	15.1	16.1	22.1	19.6	9.1
87.5°	0.0	0.0	6.0	9.1	5.0	5.5	5.5	6.0	8.5	8.5	4.5
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°	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2	2608.2
2.5°	2610.2	2557.9	2452.3	2350.7	2264.7	2181.7	2087.2	1993.6	1949.9	1932.3	1914.2
5°	2614.8	2507.1	2289.4	2070.1	1842.8	1638.1	1463.5	1284.5	1195.0	1155.8	1137.6
7.5°	2620.8	2456.9	2104.8	1736.6	1370.5	1092.9	850.5	694.6	627.2	616.6	590.4
10°	2621.8	2396.0	1890.5	1368.5	918.9	658.8	507.0	426.5	396.8	391.8	383.2
12.5°	2623.8	2324.1	1652.7	1013.4	612.6	440.6	366.6	340.0	331.9	331.4	331.4
15°	2629.9	2248.6	1405.7	730.3	440.1	349.0	321.9	311.3	308.3	309.8	309.3
17.5°	2629.9	2159.6	1163.3	544.2	355.6	313.8	298.7	291.7	290.7	292.2	292.7
20°	2610.8	2051.5	941.0	423.5	315.3	291.2	277.6	271.1	268.6	269.6	270.1
22.5°	2565.0	1918.7	759.9	350.5	288.7	270.6	256.0	245.9	241.9	242.4	242.4
25°	2493.6	1761.3	594.5	303.3	267.1	248.5	231.4	219.8	217.3	216.8	217.8
27.5°	2402.0	1587.3	473.3	267.1	241.4	223.8	206.7	197.2	195.1	195.6	196.1
30°	2312.0	1406.7	373.2	236.4	212.7	196.1	183.1	178.5	178.5	180.1	180.6
32.5°	2229.5	1233.2	295.2	209.7	187.1	172.0	164.5	164.0	166.5	167.5	168.0
35°	2158.6	1072.8	244.4	189.1	167.0	153.9	151.4	153.4	156.4	158.4	158.9
37.5°	2108.3	929.4	213.7	172.0	151.4	140.8	140.3	144.3	148.4	152.9	153.9
40°	2087.2	808.2	192.6	156.9	138.8	130.8	129.3	134.8	142.3	148.9	149.9
42.5°	2069.6	709.1	174.5	142.3	128.8	117.2	116.7	123.7	132.8	139.3	140.8
45°	2054.5	629.7	157.9	126.7	115.7	100.6	102.1	111.1	118.2	125.2	126.7
47.5°	2023.3	564.3	139.8	110.1	95.6	86.0	89.0	97.1	102.6	113.2	114.7
50°	1967.5	511.0	121.2	90.0	78.0	74.4	79.0	84.5	91.5	100.6	101.6
52.5°	1929.8	470.7	105.1	75.4	64.4	65.4	69.9	71.9	75.9	79.5	78.5
55°	1908.1	448.6	92.0	65.4	54.8	57.8	58.8	56.3	54.3	50.8	49.3
57.5°	1905.6	428.5	82.0	56.8	48.3	49.8	46.3	37.7	30.7	26.7	25.6
60°	1901.6	403.9	73.9	47.8	42.7	40.7	33.2	20.6	14.6	13.6	13.6
62.5°	1857.9	365.6	67.9	40.2	36.2	30.7	19.1	9.6	8.0	8.5	8.5
65°	1718.5	312.3	61.9	32.7	28.7	22.1	9.6	5.5	3.0	3.5	3.5
67.5°	1461.0	249.0	55.3	25.1	21.6	14.1	5.5	2.5	0.0	0.0	0.0
70°	978.2	154.4	46.8	17.6	14.1	8.5	4.0	0.5	0.0	0.0	0.0
72.5°	375.2	83.5	37.7	10.6	9.1	6.0	2.5	0.0	0.0	0.0	0.0
75°	84.5	54.8	26.2	7.5	6.5	4.0	1.0	0.0	0.0	0.0	0.0
77.5°	32.2	39.7	15.1	5.0	4.5	2.5	0.0	0.0	0.0	0.0	0.0
80°	15.6	23.6	7.0	3.0	2.5	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.0	9.1	3.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.5	4.5	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	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)