

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: P324951

Luminaire Tested: **GAN-SA7A-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324951
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-SA7A-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 21442 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

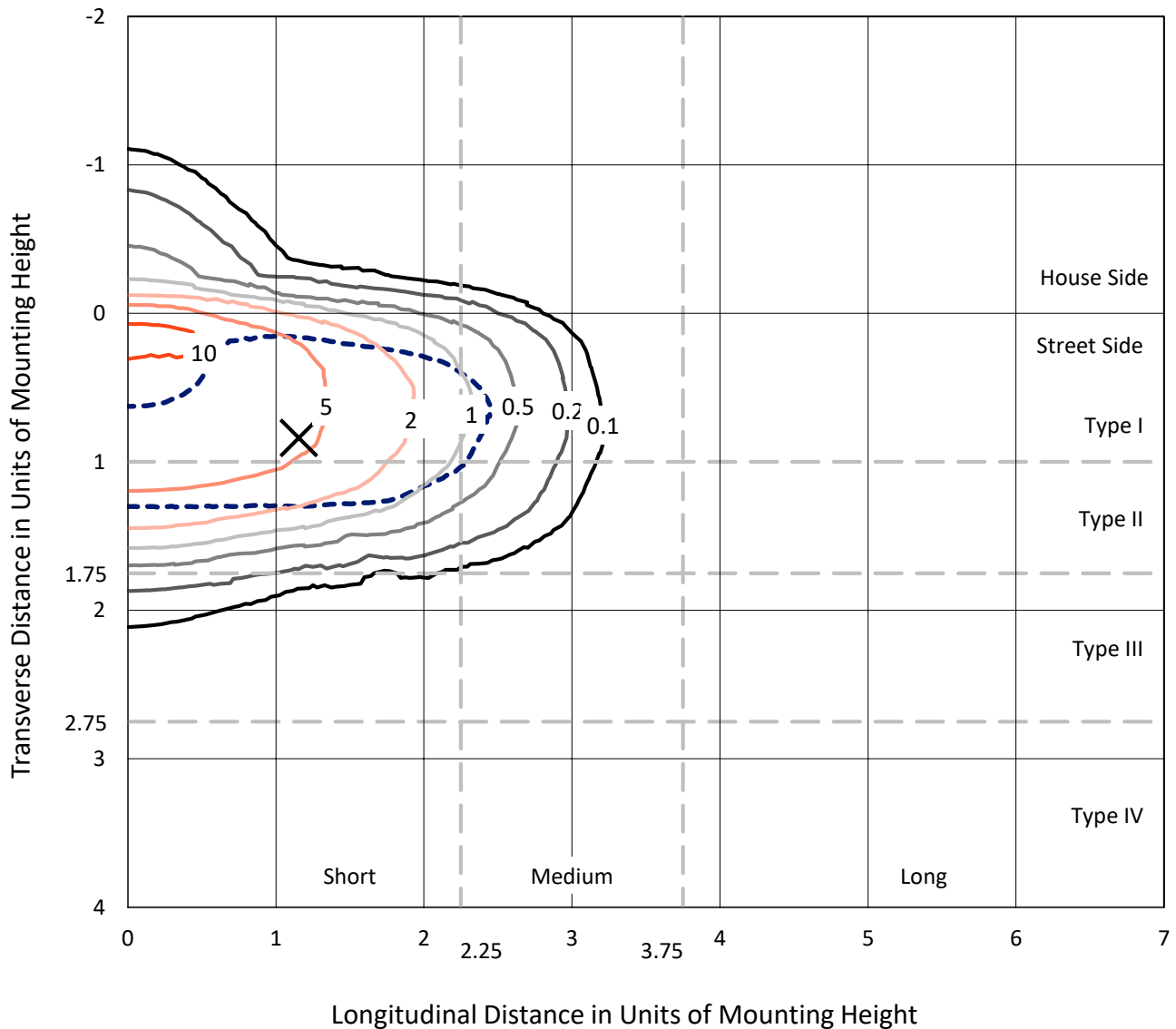
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

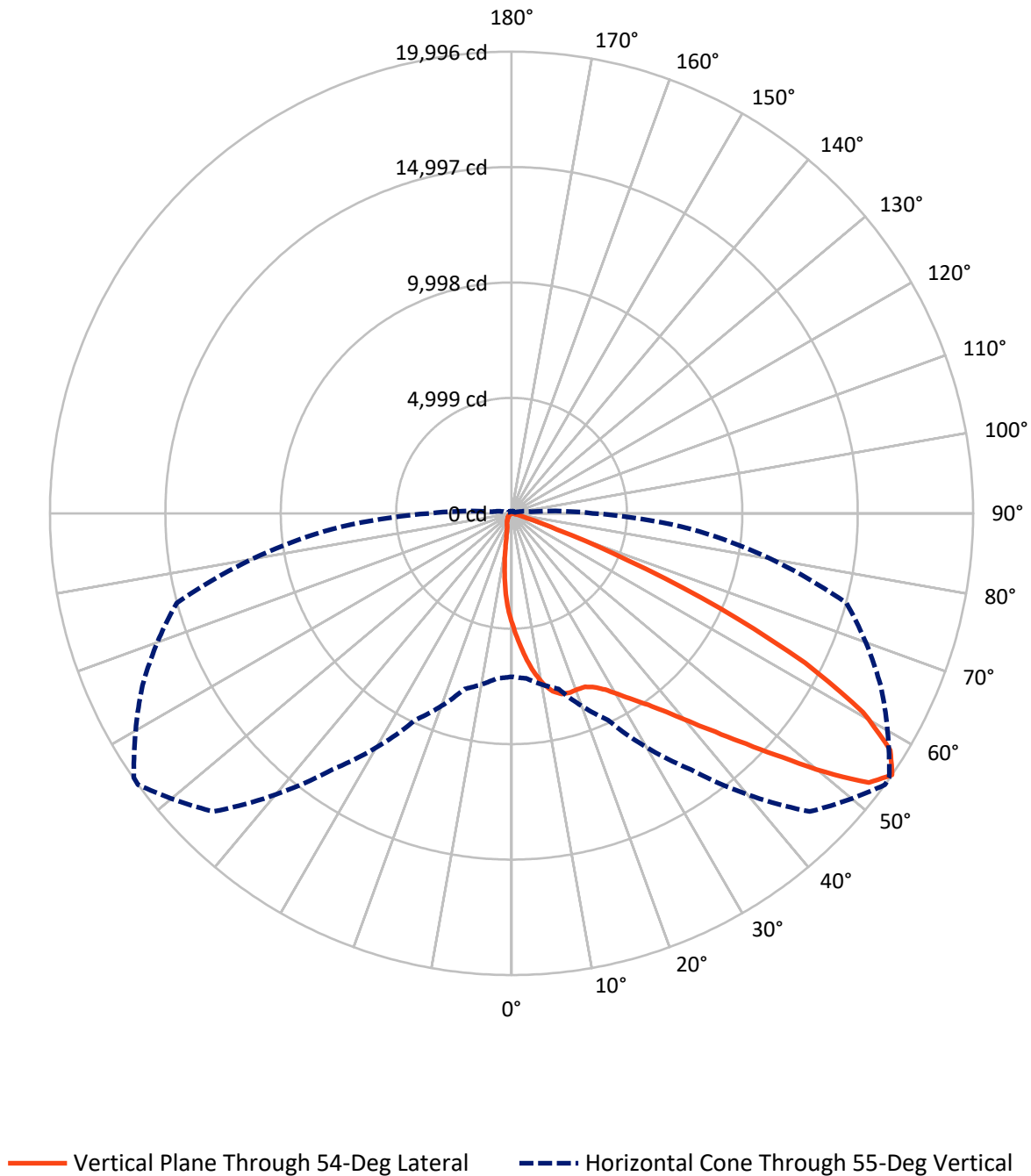
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	1069.8	0.0	1069.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	20372.2	0.0	20372.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	21442.0	0.0	21442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.2	2.1
10°-20°	1212.8	5.7
20°-30°	2070.7	9.7
30°-40°	3323.1	15.5
40°-50°	5310.3	24.8
50°-60°	5690.1	26.5
60°-70°	2921.5	13.6
70°-80°	442.5	2.1
80°-90°	28.8	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°	21442.0	100.0
0°-180°	21442.0	100.0

Coefficient of Utilization



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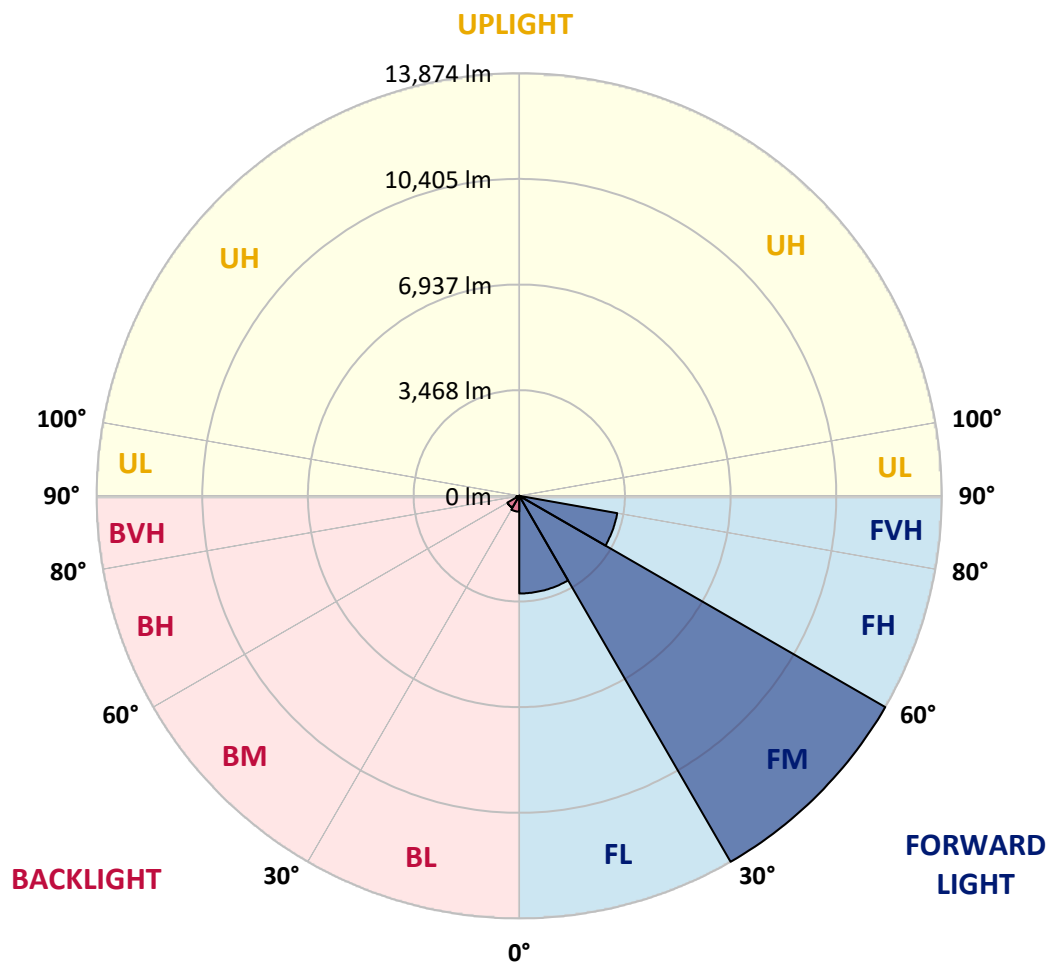
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3205.2	14.9			
FM	(30°-60°)	13873.9	64.7			
FH	(60°-80°)	3265.4	15.2			G2/5000
FVH	(80°-90°)	27.7	0.1			G1/100
BL	(0°-30°)	520.5	2.4	B2/1000		
BM	(30°-60°)	449.6	2.1	B1/1000		
BH	(60°-80°)	98.6	0.5	B0/110		G0/110
BVH	(80°-90°)	1.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4802.1	4802.1	4802.1	4802.1	4802.1	4802.1	4802.1	4802.1	4802.1	4802.1	4802.1
2.5°	6026.3	5936.5	5939.3	5898.5	5749.4	5632.8	5511.5	5482.7	5293.8	5095.7	4904.9
5°	7068.0	7002.3	6986.5	6907.8	6700.4	6481.0	6245.8	6191.1	5821.7	5416.1	5017.0
7.5°	7603.2	7604.2	7591.2	7562.5	7432.9	7219.9	6932.8	6875.4	6372.6	5764.2	5133.6
10°	7447.7	7482.9	7555.1	7650.5	7749.6	7722.7	7506.9	7455.1	6908.8	6132.8	5263.3
12.5°	7084.7	7089.3	7169.9	7326.4	7611.6	7904.2	7907.9	7890.3	7420.8	6518.0	5405.9
15°	6904.1	6921.7	6951.4	7052.3	7322.7	7791.2	8126.4	8151.4	7890.3	6927.3	5557.7
17.5°	7022.7	7047.7	7022.7	7034.7	7191.2	7612.5	8164.4	8228.3	8300.5	7331.9	5701.3
20°	7344.0	7367.1	7322.7	7273.6	7304.2	7560.7	8137.5	8223.7	8621.8	7691.2	5821.7
22.5°	7777.3	7786.6	7719.0	7638.4	7616.2	7736.6	8159.8	8248.7	8879.3	8016.2	5897.6
25°	8254.2	8262.5	8178.3	8085.7	8032.9	8082.0	8342.2	8408.9	9106.1	8326.4	5941.1
27.5°	8773.7	8781.1	8675.5	8561.6	8500.5	8502.4	8643.1	8714.4	9347.8	8680.2	5976.3
30°	9322.8	9319.1	9221.9	9063.5	8985.7	8983.9	9076.5	9148.7	9697.8	9133.9	6024.4
32.5°	9939.5	9932.1	9794.1	9597.8	9509.8	9522.8	9605.2	9646.9	10132.1	9617.3	6110.6
35°	10751.6	10730.3	10521.9	10278.4	10116.4	10111.7	10181.2	10214.5	10685.8	10202.5	6254.1
37.5°	11805.4	11785.9	11503.5	11149.8	10922.0	10836.8	10919.2	10961.8	11475.7	10953.5	6484.7
40°	12844.3	12824.9	12657.3	12333.2	11982.2	11777.6	11842.4	11887.8	12461.9	11864.6	6775.4
42.5°	13561.0	13577.7	13636.0	13662.9	13334.2	12904.5	12934.1	12981.4	13498.1	12838.8	7107.8
45°	13749.9	13786.0	14115.7	14762.9	14886.1	14550.9	14240.7	14266.6	14550.9	13812.9	7440.3
47.5°	13182.3	13249.0	13885.1	15088.9	16131.5	16368.6	15781.5	15747.3	15561.1	14600.9	7676.4
50°	11892.4	11953.5	12777.6	14558.3	16509.3	18103.9	17627.9	17527.0	16447.3	15072.2	7759.7
52.5°	10025.6	10099.7	10769.2	12887.8	15797.3	18878.0	19376.2	19291.9	17097.3	15109.3	7773.6
55°	7080.1	7169.9	7878.3	9877.5	13540.6	18262.2	19995.7	19970.7	17637.2	15011.1	7803.3
57.5°	3978.9	4043.8	4807.7	6331.9	9917.3	15906.5	19348.4	19514.2	17963.1	14840.7	7847.7
60°	1766.8	1784.4	2179.8	3152.0	5805.9	12156.3	17495.5	17775.2	17683.5	14612.9	7922.7
62.5°	979.7	964.9	964.9	1310.3	2523.3	7525.5	14266.6	14728.7	16489.9	14343.5	7926.4
65°	767.6	753.8	713.9	719.5	961.2	3340.0	9879.3	10700.7	14223.1	13553.6	7659.7
67.5°	651.0	638.9	599.1	583.4	597.3	1101.9	5428.1	6280.9	10792.3	11500.7	6634.7
70°	550.0	541.7	521.3	501.9	466.7	544.5	2077.0	2656.6	6650.4	7650.5	4529.0
72.5°	442.6	438.9	446.3	429.7	387.1	363.0	710.2	860.2	2987.2	3414.1	1865.9
75°	381.5	379.7	383.4	366.7	318.5	252.8	361.1	394.5	842.6	835.2	377.8
77.5°	248.2	250.9	317.6	310.2	274.1	168.5	187.0	201.9	255.6	191.7	114.8
80°	158.3	156.5	161.1	257.4	246.3	128.7	93.5	98.2	123.2	94.5	55.6
82.5°	96.3	94.5	105.6	120.4	124.1	89.8	57.4	58.3	76.9	61.1	29.6
85°	8.3	11.1	63.9	59.3	42.6	27.8	27.8	29.6	40.7	36.1	16.7
87.5°	0.0	0.0	11.1	16.7	9.3	10.2	10.2	11.1	15.7	15.7	8.3
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°	4802.1	4802.1	4802.1	4802.1	4802.1	4802.1	4802.1	4802.1	4802.1	4802.1	4802.1
2.5°	4805.9	4709.5	4515.1	4328.0	4169.7	4016.9	3842.8	3670.6	3590.0	3557.6	3524.3
5°	4814.2	4616.0	4215.1	3811.3	3392.8	3015.9	2694.6	2365.0	2200.1	2127.9	2094.6
7.5°	4825.3	4523.4	3875.2	3197.4	2523.3	2012.2	1565.8	1278.8	1154.7	1135.3	1087.1
10°	4827.1	4411.4	3480.8	2519.6	1691.8	1213.0	933.4	785.2	730.6	721.3	705.6
12.5°	4830.9	4279.0	3042.8	1865.9	1127.8	811.2	675.0	626.0	611.1	610.2	610.2
15°	4842.0	4140.1	2588.1	1344.5	810.2	642.6	592.6	573.2	567.6	570.4	569.5
17.5°	4842.0	3976.2	2141.8	1001.9	654.7	577.8	550.0	537.1	535.2	538.0	538.9
20°	4806.8	3777.1	1732.5	779.7	580.6	536.1	511.1	499.1	494.5	496.3	497.3
22.5°	4722.5	3532.6	1399.2	645.4	531.5	498.2	471.3	452.8	445.4	446.3	446.3
25°	4591.0	3242.8	1094.5	558.4	491.7	457.4	426.0	404.7	400.0	399.1	401.0
27.5°	4422.5	2922.4	871.3	491.7	444.5	412.1	380.6	363.0	359.3	360.2	361.1
30°	4256.7	2590.0	687.1	435.2	391.7	361.1	337.1	328.7	328.7	331.5	332.4
32.5°	4104.9	2270.5	543.6	386.1	344.5	316.7	302.8	301.9	306.5	308.4	309.3
35°	3974.3	1975.1	450.0	348.2	307.4	283.4	278.7	282.4	288.0	291.7	292.6
37.5°	3881.7	1711.2	393.5	316.7	278.7	259.3	258.3	265.8	273.2	281.5	283.4
40°	3842.8	1488.1	354.7	288.9	255.6	240.8	238.0	248.2	262.1	274.1	275.9
42.5°	3810.4	1305.6	321.3	262.1	237.1	215.8	214.8	227.8	244.5	256.5	259.3
45°	3782.6	1159.3	290.8	233.3	213.0	185.2	188.0	204.6	217.6	230.6	233.3
47.5°	3725.2	1039.0	257.4	202.8	175.9	158.3	163.9	178.7	188.9	208.3	211.1
50°	3622.4	940.8	223.2	165.8	143.5	137.0	145.4	155.6	168.5	185.2	187.0
52.5°	3553.0	866.7	193.5	138.9	118.5	120.4	128.7	132.4	139.8	146.3	144.5
55°	3513.2	826.0	169.5	120.4	100.9	106.5	108.3	103.7	100.0	93.5	90.7
57.5°	3508.5	788.9	150.9	104.6	88.9	91.7	85.2	69.4	56.5	49.1	47.2
60°	3501.1	743.6	136.1	88.0	78.7	75.0	61.1	38.0	26.9	25.0	25.0
62.5°	3420.6	673.2	125.0	74.1	66.7	56.5	35.2	17.6	14.8	15.7	15.7
65°	3164.1	575.0	113.9	60.2	52.8	40.7	17.6	10.2	5.6	6.5	6.5
67.5°	2690.0	458.4	101.9	46.3	39.8	25.9	10.2	4.6	0.0	0.0	0.0
70°	1801.0	284.3	86.1	32.4	25.9	15.7	7.4	0.9	0.0	0.0	0.0
72.5°	690.8	153.7	69.4	19.4	16.7	11.1	4.6	0.0	0.0	0.0	0.0
75°	155.6	100.9	48.2	13.9	12.0	7.4	1.9	0.0	0.0	0.0	0.0
77.5°	59.3	73.2	27.8	9.3	8.3	4.6	0.0	0.0	0.0	0.0	0.0
80°	28.7	43.5	13.0	5.6	4.6	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	14.8	16.7	5.6	2.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.3	8.3	2.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	2.8	0.9	0.9	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)