

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: P324738

Luminaire Tested: **GAN-SA4D-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324738
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-SA4D-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 21428 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

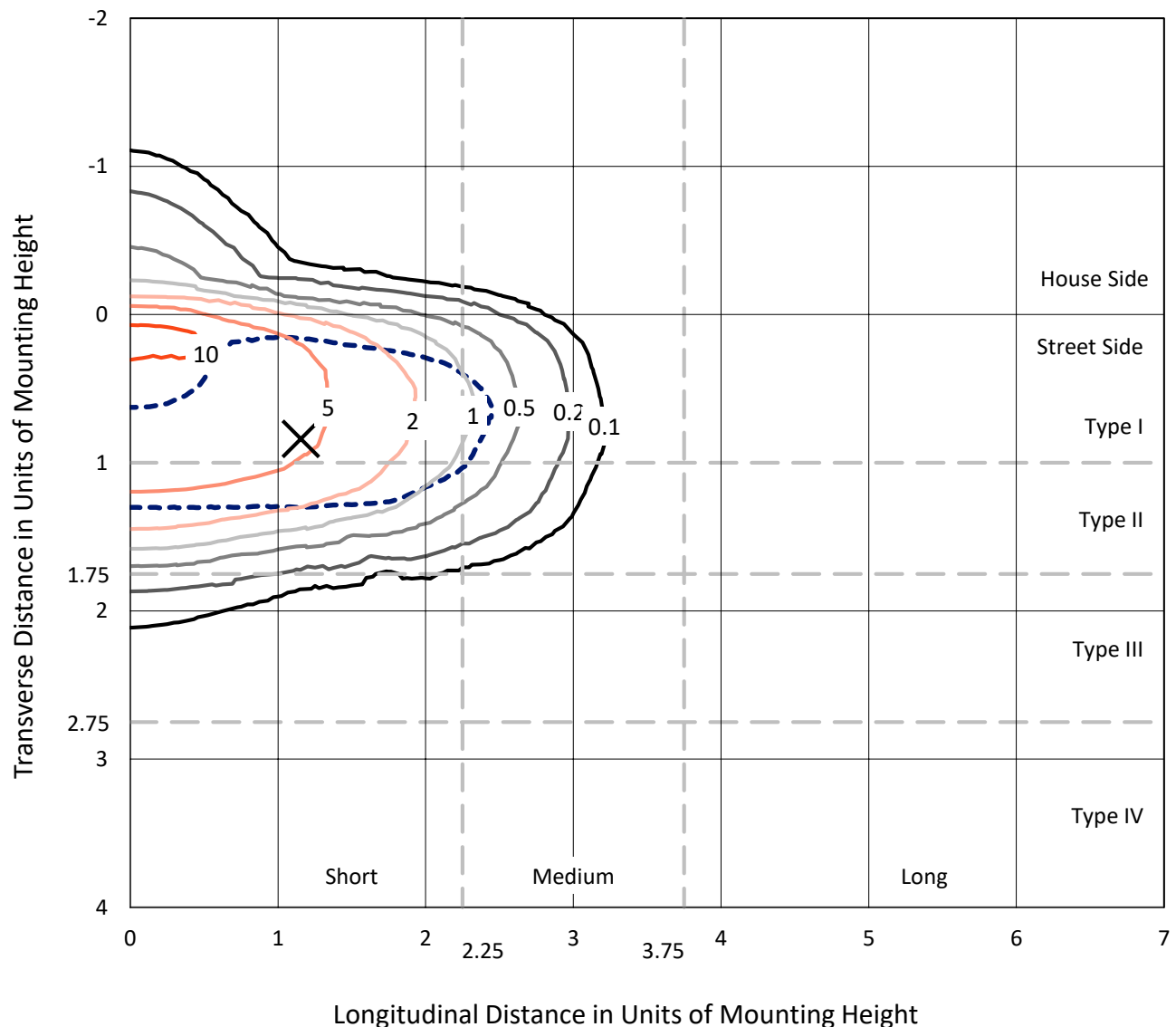
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

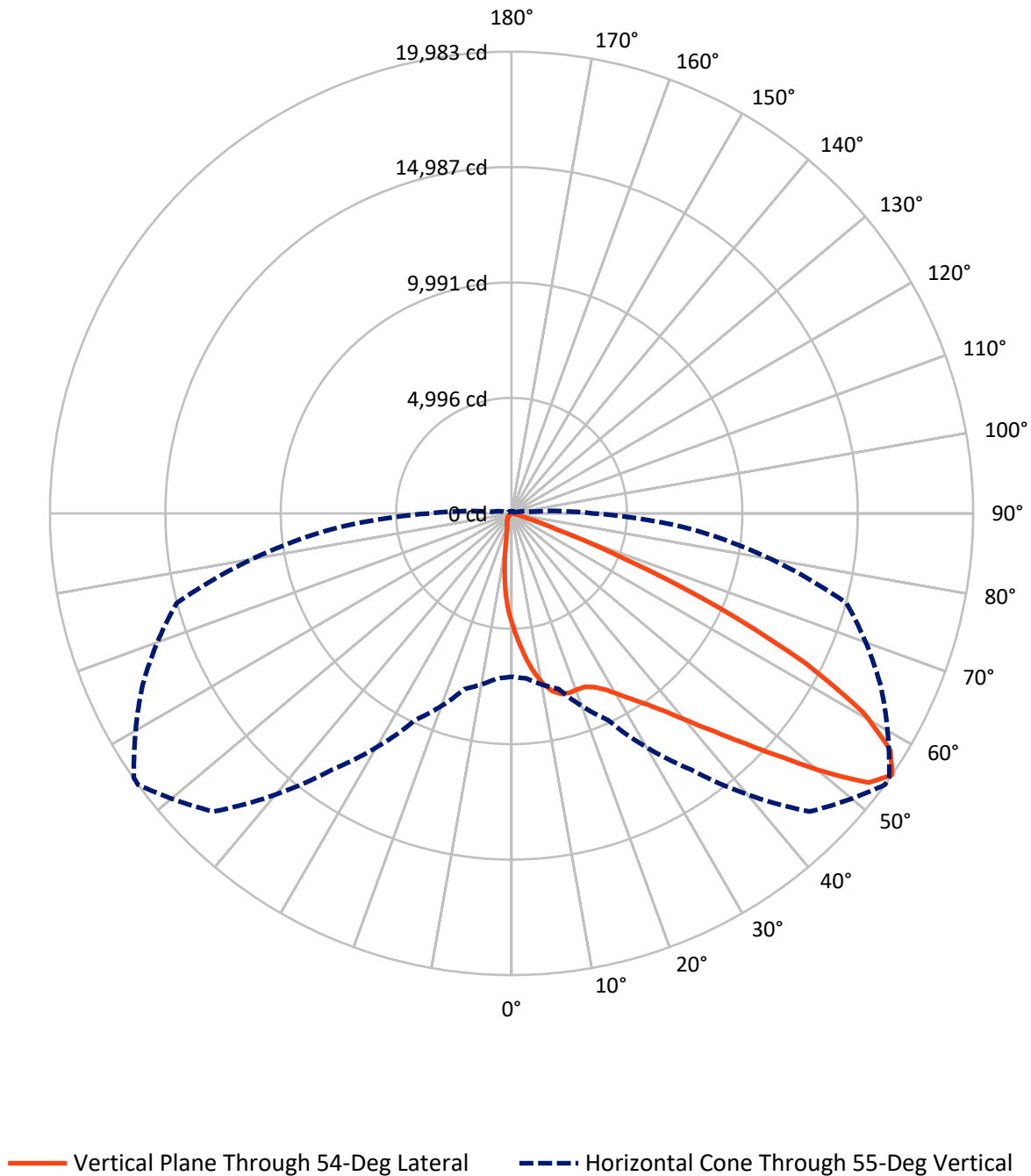
✕ Max cd
 - - - 1/2 Max cd



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	1069.1	0.0	1069.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	20358.9	0.0	20358.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	21428.0	0.0	21428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.9	2.1
10°-20°	1212.0	5.7
20°-30°	2069.3	9.7
30°-40°	3320.9	15.5
40°-50°	5306.8	24.8
50°-60°	5686.4	26.5
60°-70°	2919.6	13.6
70°-80°	442.2	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°	21428.0	100.0
0°-180°	21428.0	100.0

Coefficient of Utilization



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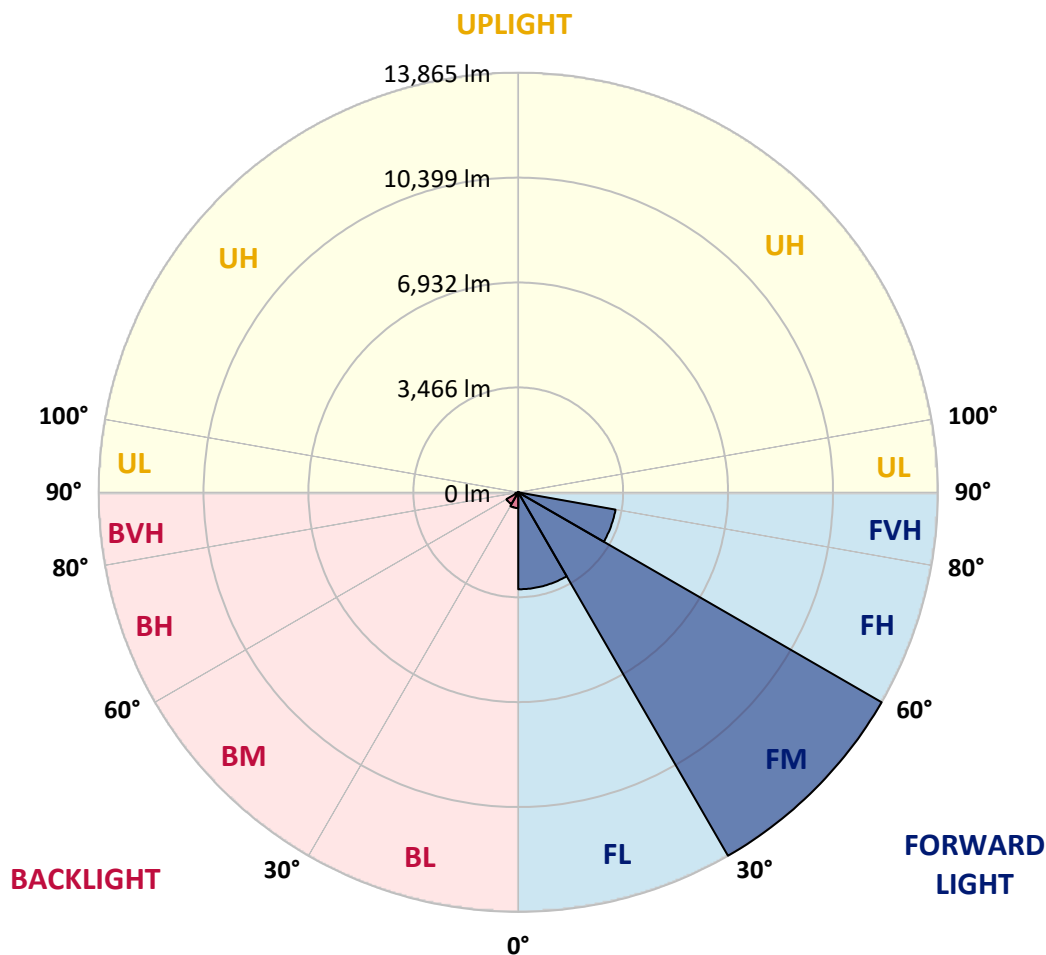
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3203.1	14.9			
FM	(30°-60°)	13864.9	64.7			
FH	(60°-80°)	3263.3	15.2			G2/5000
FVH	(80°-90°)	27.6	0.1			G1/100
BL	(0°-30°)	520.2	2.4	B2/1000		
BM	(30°-60°)	449.3	2.1	B1/1000		
BH	(60°-80°)	98.5	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°	4799.0	4799.0	4799.0	4799.0	4799.0	4799.0	4799.0	4799.0	4799.0	4799.0	4799.0
2.5°	6022.4	5932.6	5935.4	5894.7	5745.7	5629.1	5507.9	5479.2	5290.4	5092.4	4901.7
5°	7063.4	6997.7	6982.0	6903.3	6696.0	6476.7	6241.7	6187.1	5817.9	5412.5	5013.7
7.5°	7598.3	7599.2	7586.3	7557.6	7428.0	7215.2	6928.3	6870.9	6368.5	5760.5	5130.3
10°	7442.8	7478.0	7550.2	7645.5	7744.5	7717.7	7502.0	7450.2	6904.2	6128.8	5259.9
12.5°	7080.1	7084.7	7165.2	7321.6	7606.6	7899.0	7902.7	7885.1	7416.0	6513.7	5402.4
15°	6899.6	6917.2	6946.8	7047.7	7317.9	7786.1	8121.1	8146.1	7885.1	6922.8	5554.1
17.5°	7018.1	7043.1	7018.1	7030.1	7186.5	7607.5	8159.1	8222.9	8295.1	7327.1	5697.6
20°	7339.2	7362.3	7317.9	7268.8	7299.4	7555.7	8132.2	8218.3	8616.2	7686.2	5817.9
22.5°	7772.3	7781.5	7714.0	7633.4	7611.2	7731.5	8154.4	8243.3	8873.5	8011.0	5893.7
25°	8248.8	8257.2	8172.9	8080.4	8027.7	8076.7	8336.7	8403.4	9100.2	8321.0	5937.2
27.5°	8768.0	8775.4	8669.9	8556.0	8495.0	8496.8	8637.5	8708.7	9341.7	8674.5	5972.4
30°	9316.7	9313.0	9215.8	9057.6	8979.9	8978.0	9070.6	9142.7	9691.5	9127.9	6020.5
32.5°	9933.0	9925.6	9787.7	9591.5	9503.6	9516.6	9598.9	9640.6	10125.5	9611.0	6106.6
35°	10744.6	10723.3	10515.1	10271.7	10109.8	10105.1	10174.5	10207.8	10678.9	10195.8	6250.0
37.5°	11797.6	11778.2	11496.0	11142.5	10914.8	10829.7	10912.1	10954.6	11468.2	10946.3	6480.4
40°	12835.9	12816.5	12649.0	12325.1	11974.4	11769.9	11834.7	11880.0	12453.7	11856.9	6771.0
42.5°	13552.2	13568.8	13627.1	13654.0	13325.4	12896.1	12925.7	12972.9	13489.2	12830.4	7103.2
45°	13740.9	13777.0	14106.5	14753.3	14876.4	14541.4	14231.4	14257.3	14541.4	13803.9	7435.4
47.5°	13173.7	13240.3	13876.0	15079.0	16121.0	16357.9	15771.2	15737.0	15551.0	14591.4	7671.4
50°	11884.6	11945.7	12769.3	14548.8	16498.6	18092.1	17616.4	17515.6	16436.6	15062.4	7754.7
52.5°	10019.1	10093.1	10762.1	12879.4	15787.0	18865.7	19363.5	19279.3	17086.2	15099.4	7768.6
55°	7075.4	7165.2	7873.1	9871.0	13531.8	18250.3	19982.6	19957.6	17625.7	15001.3	7798.2
57.5°	3976.4	4041.1	4804.6	6327.7	9910.8	15896.1	19335.8	19501.4	17951.4	14831.0	7842.6
60°	1765.6	1783.2	2178.3	3150.0	5802.1	12148.4	17484.1	17763.6	17671.9	14603.4	7917.5
62.5°	979.1	964.2	964.2	1309.4	2521.7	7520.5	14257.3	14719.1	16479.1	14334.1	7921.2
65°	767.1	753.3	713.5	719.0	960.5	3337.8	9872.9	10693.7	14213.8	13544.8	7654.7
67.5°	650.5	638.5	598.7	583.0	596.9	1101.2	5424.6	6276.8	10785.3	11493.2	6630.3
70°	549.7	541.3	521.0	501.6	466.4	544.1	2075.6	2654.9	6646.1	7645.5	4526.0
72.5°	442.3	438.6	446.0	429.4	386.8	362.7	709.8	859.7	2985.3	3411.9	1864.6
75°	381.3	379.4	383.1	366.4	318.3	252.6	360.9	394.2	842.1	834.7	377.6
77.5°	248.0	250.8	317.4	310.0	273.9	168.4	186.9	201.7	255.4	191.6	114.7
80°	158.2	156.4	161.0	257.3	246.2	128.6	93.5	98.1	123.1	94.4	55.5
82.5°	96.2	94.4	105.5	120.3	124.0	89.8	57.4	58.3	76.8	61.1	29.6
85°	8.3	11.1	63.9	59.2	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°	4799.0	4799.0	4799.0	4799.0	4799.0	4799.0	4799.0	4799.0	4799.0	4799.0	4799.0
2.5°	4802.7	4706.5	4512.1	4325.2	4167.0	4014.3	3840.3	3668.2	3587.7	3555.3	3522.0
5°	4811.0	4613.0	4212.3	3808.9	3390.6	3014.0	2692.9	2363.4	2198.7	2126.5	2093.2
7.5°	4822.1	4520.5	3872.7	3195.3	2521.7	2010.8	1564.8	1277.9	1153.9	1134.5	1086.4
10°	4824.0	4408.5	3478.5	2518.0	1690.7	1212.2	932.8	784.7	730.1	720.9	705.1
12.5°	4827.7	4276.2	3040.8	1864.6	1127.1	810.6	674.6	625.6	610.7	609.8	609.8
15°	4838.8	4137.4	2586.4	1343.6	809.7	642.2	592.2	572.8	567.3	570.0	569.1
17.5°	4838.8	3973.6	2140.4	1001.3	654.2	577.4	549.7	536.7	534.9	537.6	538.6
20°	4803.6	3774.6	1731.4	779.2	580.2	535.8	510.8	498.8	494.2	496.0	496.9
22.5°	4719.4	3530.3	1398.2	645.0	531.2	497.9	471.0	452.5	445.1	446.0	446.0
25°	4588.0	3240.7	1093.8	558.0	491.4	457.1	425.7	404.4	399.8	398.8	400.7
27.5°	4419.6	2920.5	870.8	491.4	444.2	411.8	380.3	362.7	359.0	360.0	360.9
30°	4254.0	2588.3	686.6	434.9	391.4	360.9	336.8	328.5	328.5	331.3	332.2
32.5°	4102.2	2269.0	543.2	385.9	344.2	316.5	302.6	301.7	306.3	308.2	309.1
35°	3971.7	1973.8	449.7	347.9	307.2	283.2	278.5	282.2	287.8	291.5	292.4
37.5°	3879.2	1710.1	393.3	316.5	278.5	259.1	258.2	265.6	273.0	281.3	283.2
40°	3840.3	1487.1	354.4	288.7	255.4	240.6	237.8	248.0	261.9	273.9	275.8
42.5°	3807.9	1304.8	321.1	261.9	236.9	215.6	214.7	227.6	244.3	256.3	259.1
45°	3780.2	1158.6	290.6	233.2	212.8	185.1	187.9	204.5	217.5	230.4	233.2
47.5°	3722.8	1038.3	257.3	202.7	175.8	158.2	163.8	178.6	188.8	208.2	211.0
50°	3620.1	940.2	223.0	165.6	143.4	137.0	145.3	155.5	168.4	185.1	186.9
52.5°	3550.7	866.2	193.4	138.8	118.4	120.3	128.6	132.3	139.7	146.2	144.4
55°	3510.9	825.4	169.3	120.3	100.9	106.4	108.3	103.6	99.9	93.5	90.7
57.5°	3506.3	788.4	150.8	104.6	88.8	91.6	85.1	69.4	56.4	49.0	47.2
60°	3498.9	743.1	136.0	87.9	78.7	75.0	61.1	37.9	26.8	25.0	25.0
62.5°	3418.3	672.8	124.9	74.0	66.6	56.4	35.2	17.6	14.8	15.7	15.7
65°	3162.0	574.7	113.8	60.1	52.7	40.7	17.6	10.2	5.6	6.5	6.5
67.5°	2688.2	458.1	101.8	46.3	39.8	25.9	10.2	4.6	0.0	0.0	0.0
70°	1799.9	284.1	86.1	32.4	25.9	15.7	7.4	0.9	0.0	0.0	0.0
72.5°	690.3	153.6	69.4	19.4	16.7	11.1	4.6	0.0	0.0	0.0	0.0
75°	155.5	100.9	48.1	13.9	12.0	7.4	1.9	0.0	0.0	0.0	0.0
77.5°	59.2	73.1	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)