

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: P324711

Luminaire Tested: **GAN-SA7A-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324711
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-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 22566 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

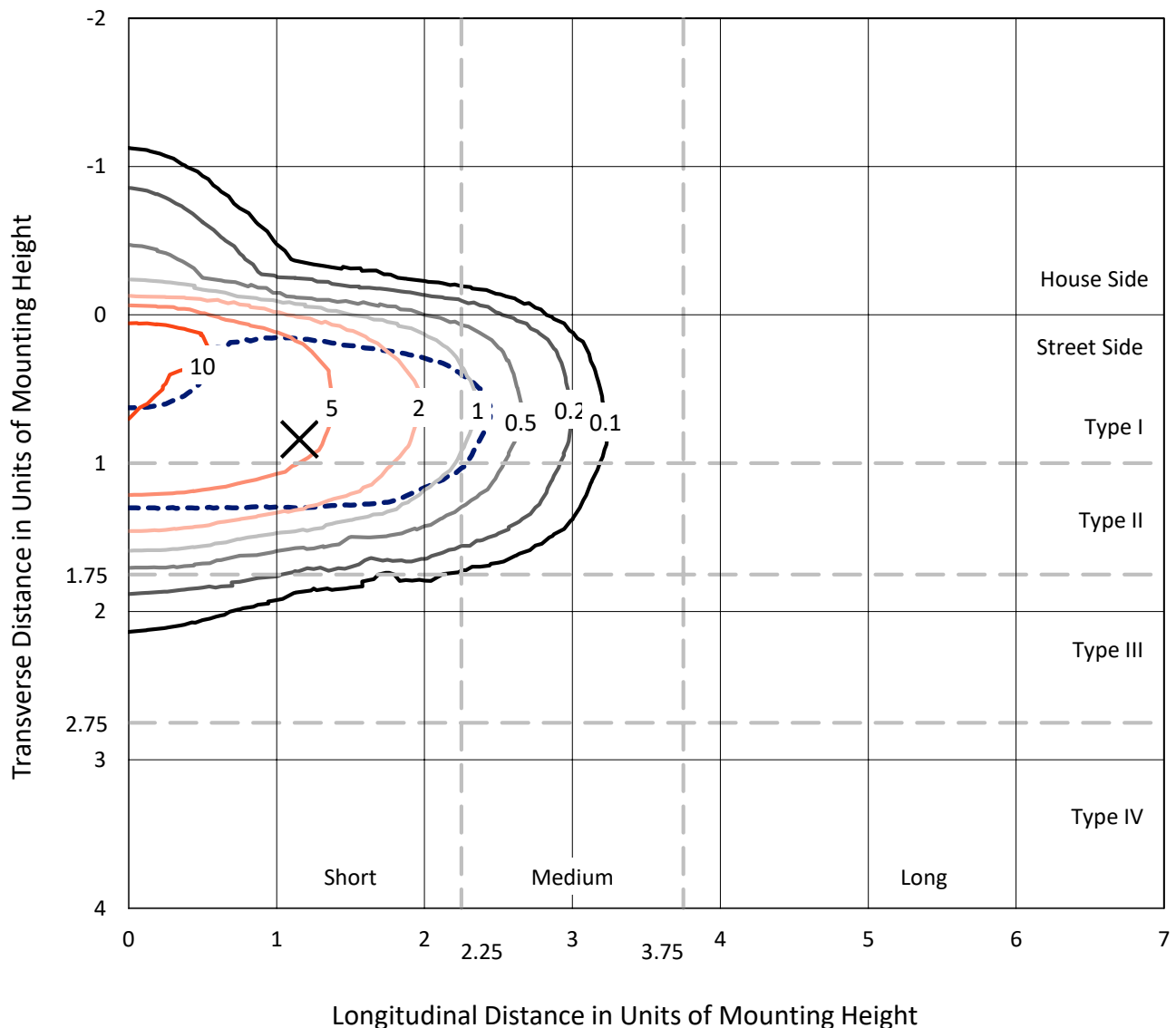
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

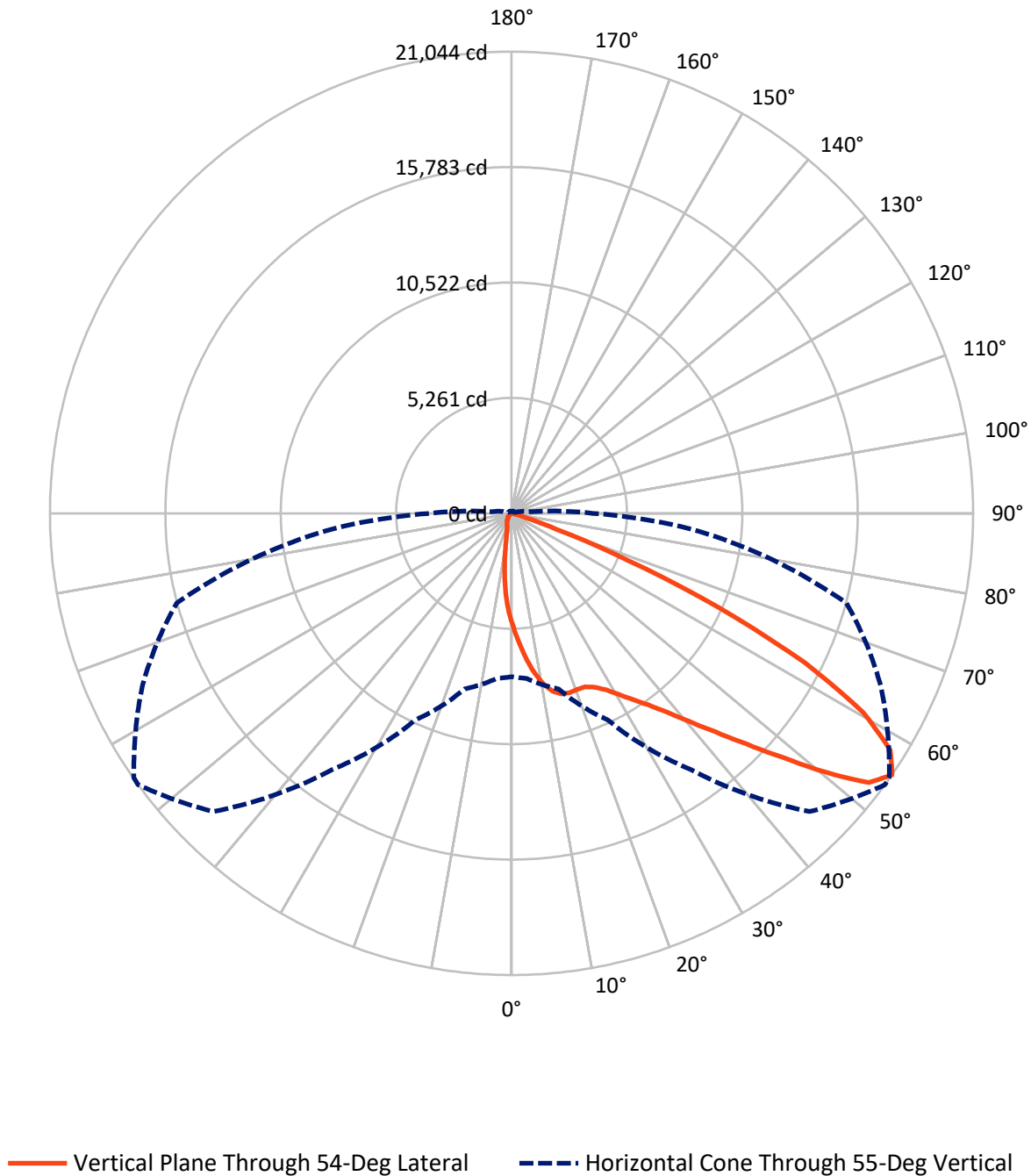
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	1125.9	0.0	1125.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	21440.1	0.0	21440.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	22566.0	0.0	22566.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.4	2.1
10°-20°	1276.4	5.7
20°-30°	2179.2	9.7
30°-40°	3497.3	15.5
40°-50°	5588.7	24.8
50°-60°	5988.4	26.5
60°-70°	3074.6	13.6
70°-80°	465.7	2.1
80°-90°	30.3	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°	22566.0	100.0
0°-180°	22566.0	100.0

Coefficient of Utilization



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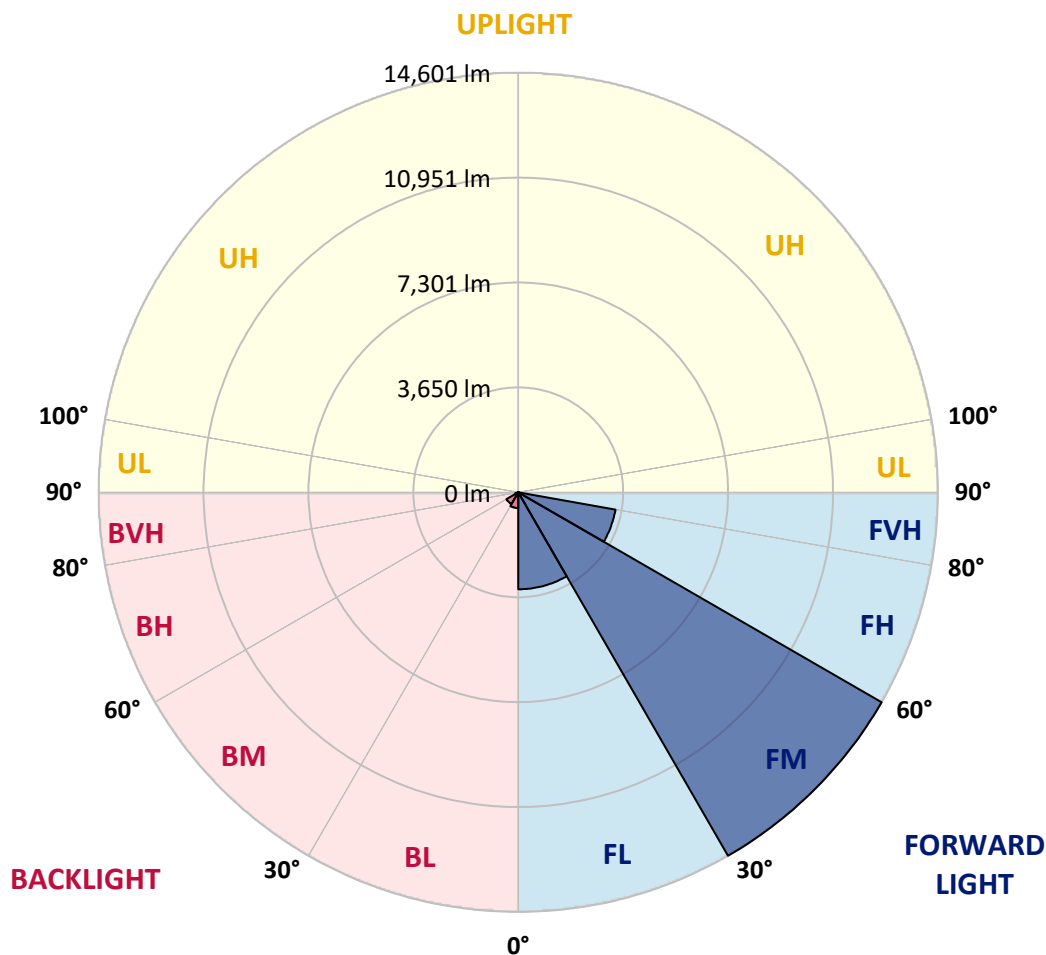
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3373.2	14.9			
FM	(30°-60°)	14601.2	64.7			
FH	(60°-80°)	3436.6	15.2			G2/5000
FVH	(80°-90°)	29.1	0.1			G1/100
BL	(0°-30°)	547.8	2.4	B2/1000		
BM	(30°-60°)	473.1	2.1	B1/1000		
BH	(60°-80°)	103.8	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°	5053.9	5053.9	5053.9	5053.9	5053.9	5053.9	5053.9	5053.9	5053.9	5053.9	5053.9
2.5°	6342.2	6247.7	6250.6	6207.7	6050.8	5928.0	5800.4	5770.2	5571.4	5362.8	5162.1
5°	7438.5	7369.3	7352.8	7269.9	7051.7	6820.7	6573.2	6515.7	6126.8	5700.0	5280.0
7.5°	8001.8	8002.8	7989.1	7958.9	7822.5	7598.4	7296.3	7235.8	6706.7	6066.4	5402.8
10°	7838.1	7875.1	7951.1	8051.5	8155.8	8127.5	7900.5	7845.9	7270.9	6454.3	5539.2
12.5°	7456.1	7461.0	7545.7	7710.4	8010.6	8318.5	8322.4	8303.9	7809.8	6859.7	5689.3
15°	7266.0	7284.6	7315.7	7422.0	7706.5	8199.6	8552.4	8578.7	8303.9	7290.4	5849.1
17.5°	7390.8	7417.1	7390.8	7403.5	7568.1	8011.6	8592.4	8659.6	8735.6	7716.3	6000.1
20°	7728.9	7753.3	7706.5	7654.9	7687.0	7957.0	8564.1	8654.7	9073.8	8094.4	6126.8
22.5°	8185.0	8194.8	8123.6	8038.8	8015.5	8142.1	8587.5	8681.1	9344.7	8436.4	6206.7
25°	8686.9	8695.7	8607.0	8509.5	8454.0	8505.6	8779.5	8849.6	9583.5	8762.9	6252.5
27.5°	9233.6	9241.4	9130.3	9010.4	8946.1	8948.1	9096.2	9171.2	9837.8	9135.2	6289.6
30°	9811.5	9807.6	9705.3	9538.6	9456.8	9454.8	9552.3	9628.3	10206.2	9612.7	6340.2
32.5°	10460.5	10452.7	10307.5	10100.9	10008.4	10022.0	10108.7	10152.6	10663.2	10121.4	6430.9
35°	11315.2	11292.8	11073.5	10817.2	10646.7	10641.8	10714.9	10750.0	11246.0	10737.3	6581.9
37.5°	12424.2	12403.7	12106.5	11734.2	11494.5	11404.8	11491.6	11536.4	12077.3	11527.6	6824.6
40°	13517.6	13497.1	13320.8	12979.7	12610.3	12395.0	12463.2	12510.9	13115.1	12486.6	7130.6
42.5°	14271.9	14289.4	14350.8	14379.1	14033.1	13581.0	13612.1	13661.8	14205.6	13511.8	7480.4
45°	14470.7	14508.7	14855.6	15536.8	15666.4	15313.7	14987.2	15014.5	15313.7	14537.0	7830.3
47.5°	13873.3	13943.5	14613.0	15879.9	16977.2	17226.7	16608.8	16572.7	16376.9	15366.3	8078.8
50°	12515.8	12580.1	13447.4	15321.5	17374.8	19052.9	18552.0	18445.8	17309.5	15862.3	8166.5
52.5°	10551.2	10629.1	11333.7	13563.4	16625.4	19867.6	20391.9	20303.2	17993.6	15901.3	8181.1
55°	7451.2	7545.7	8291.2	10395.2	14250.5	19219.6	21043.9	21017.5	18561.7	15798.0	8212.3
57.5°	4187.5	4255.7	5059.7	6663.8	10437.1	16740.4	20362.7	20537.1	18904.8	15618.7	8259.1
60°	1859.4	1877.9	2294.0	3317.3	6110.3	12793.5	18412.6	18707.0	18610.5	15379.0	8338.0
62.5°	1031.0	1015.5	1015.5	1379.0	2655.6	7920.0	15014.5	15500.8	17354.3	15095.4	8341.9
65°	807.9	793.3	751.4	757.2	1011.6	3515.1	10397.2	11261.6	14968.7	14264.1	8061.3
67.5°	685.1	672.4	630.5	613.9	628.6	1159.7	5712.7	6610.2	11358.1	12103.6	6982.5
70°	578.9	570.1	548.7	528.2	491.2	573.0	2185.9	2795.9	6999.0	8051.5	4766.4
72.5°	465.8	461.9	469.7	452.2	407.4	382.0	747.5	905.3	3143.8	3593.1	1963.7
75°	401.5	399.6	403.5	385.9	335.2	266.0	380.1	415.1	886.8	879.0	397.6
77.5°	261.2	264.1	334.3	326.5	288.5	177.4	196.9	212.4	269.0	201.7	120.8
80°	166.6	164.7	169.6	270.9	259.2	135.5	98.4	103.3	129.6	99.4	58.5
82.5°	101.4	99.4	111.1	126.7	130.6	94.5	60.4	61.4	80.9	64.3	31.2
85°	8.8	11.7	67.2	62.4	44.8	29.2	29.2	31.2	42.9	38.0	17.5
87.5°	0.0	0.0	11.7	17.5	9.7	10.7	10.7	11.7	16.6	16.6	8.8
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°	5053.9	5053.9	5053.9	5053.9	5053.9	5053.9	5053.9	5053.9	5053.9	5053.9	5053.9
2.5°	5057.8	4956.4	4751.8	4554.9	4388.3	4227.5	4044.3	3863.0	3778.2	3744.1	3709.0
5°	5066.5	4858.0	4436.0	4011.1	3570.7	3174.0	2835.9	2488.9	2315.5	2239.5	2204.4
7.5°	5078.2	4760.5	4078.4	3365.0	2655.6	2117.6	1647.9	1345.8	1215.2	1194.8	1144.1
10°	5080.2	4642.6	3663.2	2651.7	1780.5	1276.6	982.3	826.4	768.9	759.2	742.6
12.5°	5084.1	4503.3	3202.3	1963.7	1187.0	853.7	710.4	658.8	643.2	642.2	642.2
15°	5095.8	4357.1	2723.8	1415.0	852.7	676.3	623.7	603.2	597.4	600.3	599.3
17.5°	5095.8	4184.6	2254.1	1054.4	689.0	608.1	578.9	565.2	563.3	566.2	567.2
20°	5058.8	3975.1	1823.3	820.5	611.0	564.2	537.9	525.3	520.4	522.3	523.3
22.5°	4970.1	3717.8	1472.5	679.2	559.4	524.3	496.0	476.5	468.7	469.7	469.7
25°	4831.7	3412.8	1151.9	587.6	517.5	481.4	448.3	425.9	421.0	420.0	422.0
27.5°	4654.3	3075.6	917.0	517.5	467.8	433.7	400.5	382.0	378.1	379.1	380.1
30°	4479.9	2725.7	723.1	458.0	412.2	380.1	354.7	346.0	346.0	348.9	349.9
32.5°	4320.1	2389.5	572.0	406.4	362.5	333.3	318.7	317.7	322.6	324.5	325.5
35°	4182.7	2078.7	473.6	366.4	323.5	298.2	293.3	297.2	303.1	307.0	307.9
37.5°	4085.2	1800.9	414.2	333.3	293.3	272.9	271.9	279.7	287.5	296.3	298.2
40°	4044.3	1566.1	373.2	304.1	269.0	253.4	250.5	261.2	275.8	288.5	290.4
42.5°	4010.2	1374.1	338.2	275.8	249.5	227.1	226.1	239.7	257.3	269.9	272.9
45°	3980.9	1220.1	306.0	245.6	224.1	194.9	197.8	215.4	229.0	242.7	245.6
47.5°	3920.5	1093.4	270.9	213.4	185.2	166.6	172.5	188.1	198.8	219.3	222.2
50°	3812.3	990.1	234.9	174.4	151.1	144.2	153.0	163.7	177.4	194.9	196.9
52.5°	3739.2	912.2	203.7	146.2	124.7	126.7	135.5	139.4	147.2	154.0	152.0
55°	3697.3	869.3	178.3	126.7	106.2	112.1	114.0	109.1	105.2	98.4	95.5
57.5°	3692.5	830.3	158.8	110.1	93.6	96.5	89.7	73.1	59.4	51.6	49.7
60°	3684.7	782.5	143.3	92.6	82.8	78.9	64.3	40.0	28.3	26.3	26.3
62.5°	3599.9	708.5	131.6	78.0	70.2	59.4	37.0	18.5	15.6	16.6	16.6
65°	3329.9	605.2	119.9	63.3	55.5	42.9	18.5	10.7	5.8	6.8	6.8
67.5°	2831.0	482.4	107.2	48.7	41.9	27.3	10.7	4.9	0.0	0.0	0.0
70°	1895.4	299.2	90.6	34.1	27.3	16.6	7.8	1.0	0.0	0.0	0.0
72.5°	727.0	161.8	73.1	20.5	17.5	11.7	4.9	0.0	0.0	0.0	0.0
75°	163.7	106.2	50.7	14.6	12.7	7.8	1.9	0.0	0.0	0.0	0.0
77.5°	62.4	77.0	29.2	9.7	8.8	4.9	0.0	0.0	0.0	0.0	0.0
80°	30.2	45.8	13.6	5.8	4.9	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	15.6	17.5	5.8	2.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.8	8.8	2.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	2.9	1.0	1.0	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)