

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: P324911

Luminaire Tested: **GAN-SA7A-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324911
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-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 19836 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

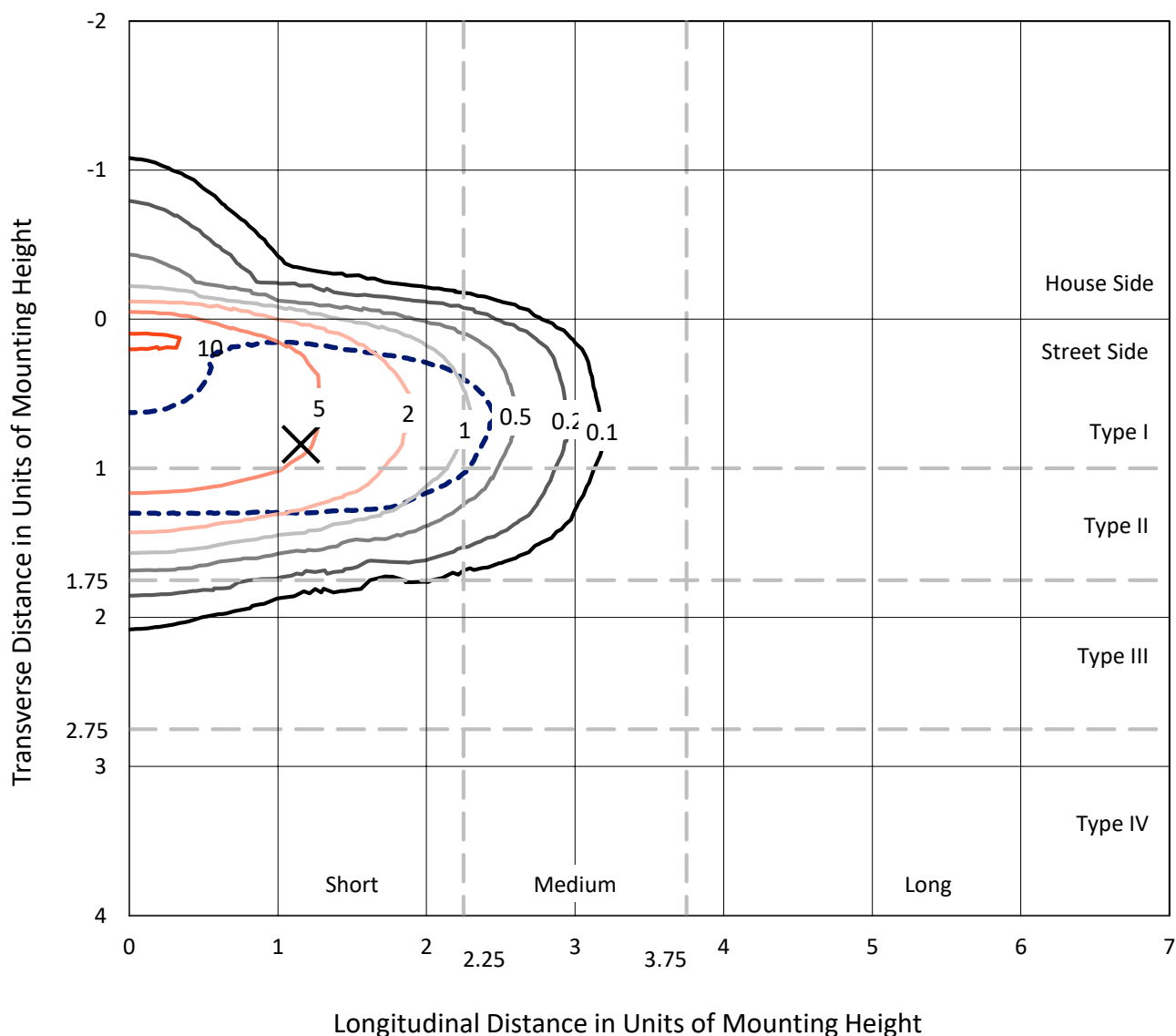
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

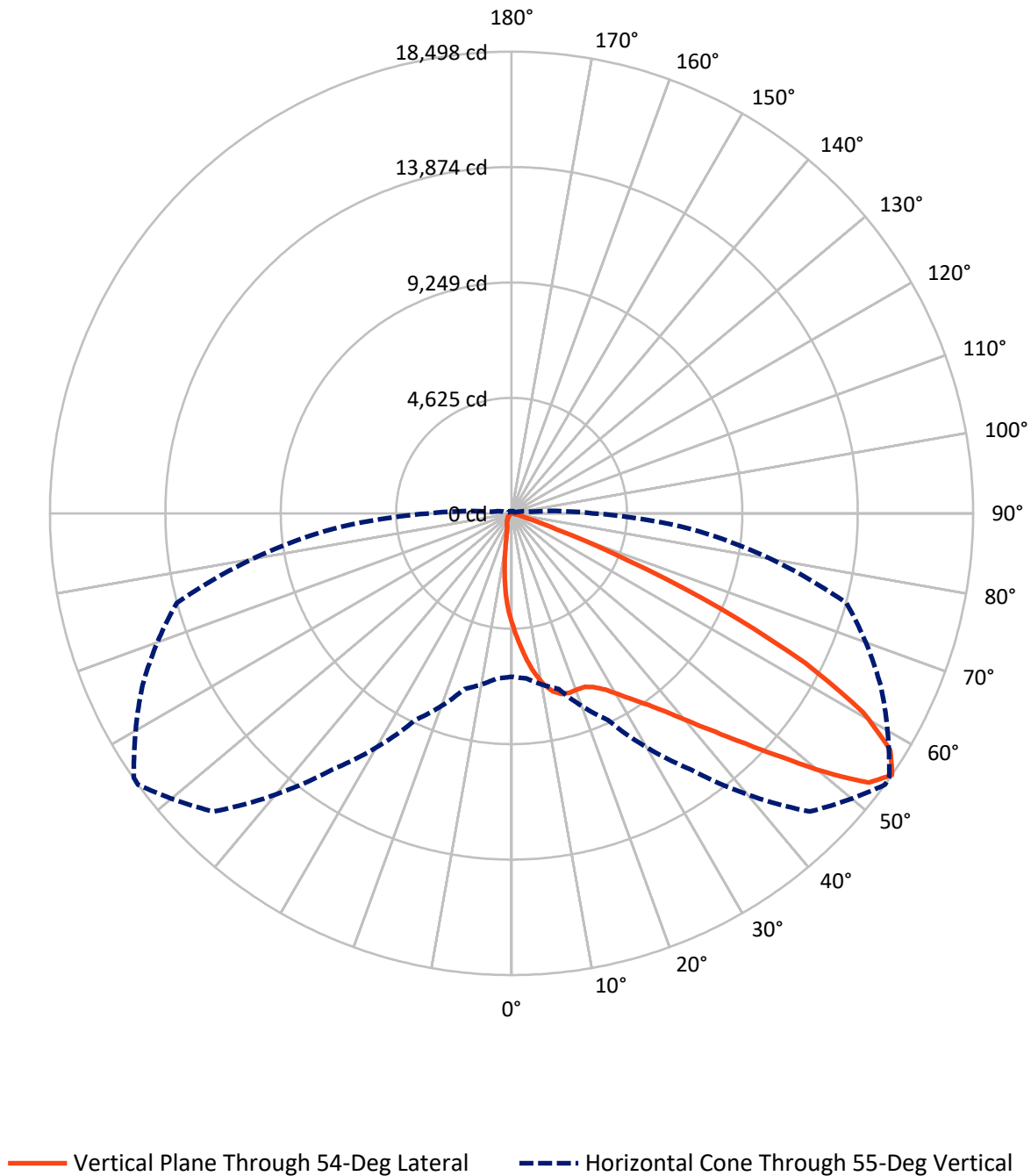
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	989.7	0.0	989.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	18846.3	0.0	18846.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	19836.0	0.0	19836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.1	2.1
10°-20°	1122.0	5.7
20°-30°	1915.6	9.7
30°-40°	3074.2	15.5
40°-50°	4912.5	24.8
50°-60°	5263.9	26.5
60°-70°	2702.7	13.6
70°-80°	409.4	2.1
80°-90°	26.7	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°	19836.0	100.0
0°-180°	19836.0	100.0

Coefficient of Utilization



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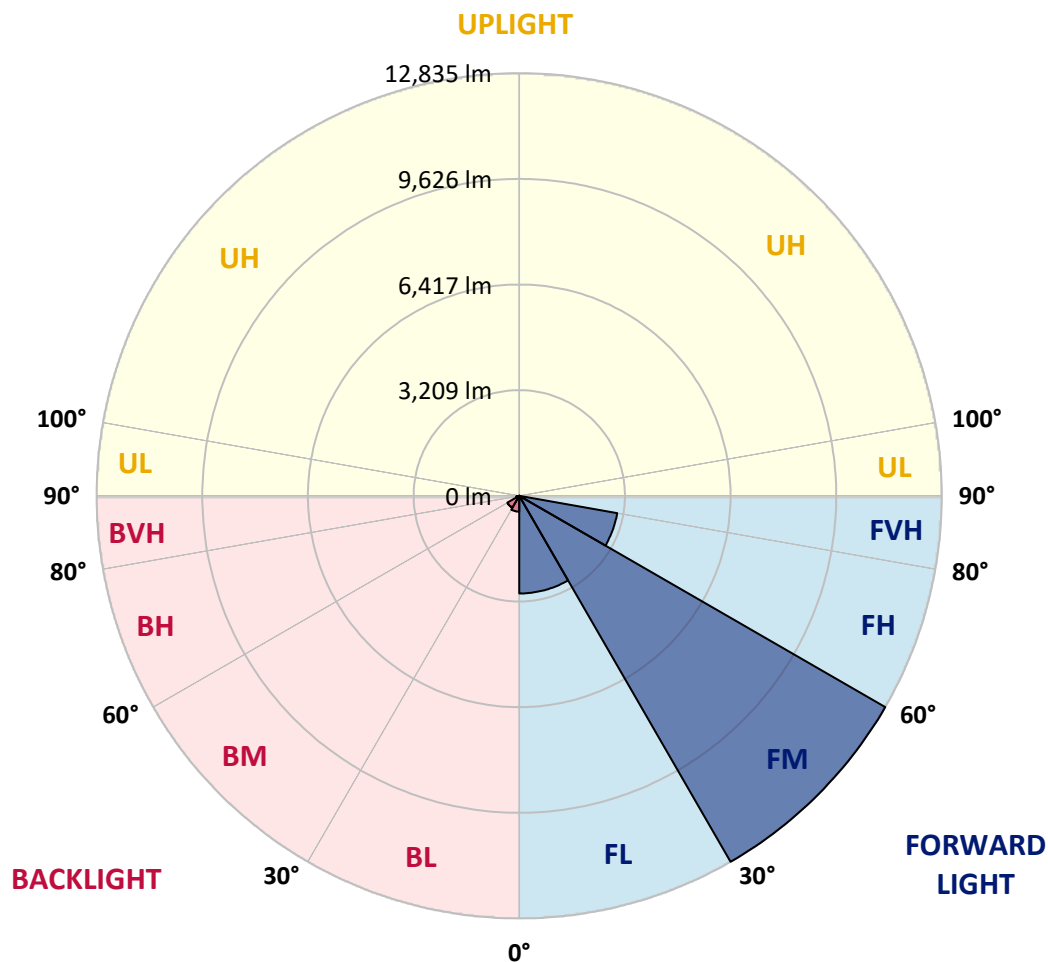
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2965.1	14.9			
FM	(30°-60°)	12834.8	64.7			
FH	(60°-80°)	3020.8	15.2			G2/5000
FVH	(80°-90°)	25.6	0.1			G1/100
BL	(0°-30°)	481.5	2.4	B1/500		
BM	(30°-60°)	415.9	2.1	B1/1000		
BH	(60°-80°)	91.2	0.5	B0/110		G0/110
BVH	(80°-90°)	1.1	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°	4442.5	4442.5	4442.5	4442.5	4442.5	4442.5	4442.5	4442.5	4442.5	4442.5	4442.5
2.5°	5574.9	5491.8	5494.4	5456.7	5318.8	5210.9	5098.6	5072.1	4897.3	4714.0	4537.6
5°	6538.6	6477.8	6463.3	6390.4	6198.6	5995.5	5777.9	5727.4	5385.6	5010.4	4641.2
7.5°	7033.8	7034.6	7022.6	6996.1	6876.1	6679.1	6413.6	6360.5	5895.3	5332.5	4749.1
10°	6889.9	6922.4	6989.2	7077.5	7169.1	7144.3	6944.7	6896.7	6391.3	5673.4	4869.1
12.5°	6554.1	6558.3	6632.9	6777.6	7041.5	7312.2	7315.6	7299.3	6865.0	6029.8	5001.0
15°	6387.0	6403.3	6430.7	6524.1	6774.2	7207.7	7517.8	7540.9	7299.3	6408.4	5141.5
17.5°	6496.7	6519.8	6496.7	6507.8	6652.6	7042.3	7552.9	7612.0	7678.8	6782.8	5274.3
20°	6793.9	6815.3	6774.2	6728.8	6757.1	6994.4	7528.0	7607.7	7976.1	7115.1	5385.6
22.5°	7194.8	7203.4	7140.8	7066.3	7045.8	7157.1	7548.6	7630.8	8214.2	7415.8	5455.9
25°	7636.0	7643.7	7565.7	7480.1	7431.2	7476.6	7717.4	7779.0	8424.1	7702.8	5496.1
27.5°	8116.5	8123.4	8025.7	7920.4	7863.8	7865.5	7995.8	8061.7	8647.7	8030.0	5528.7
30°	8624.5	8621.1	8531.1	8384.7	8312.7	8311.0	8396.7	8463.5	8971.5	8449.8	5573.2
32.5°	9195.0	9188.2	9060.5	8878.9	8797.6	8809.6	8885.8	8924.3	9373.2	8896.9	5652.9
35°	9946.3	9926.6	9733.9	9508.6	9358.7	9354.4	9418.6	9449.5	9885.5	9438.3	5785.7
37.5°	10921.1	10903.1	10641.9	10314.6	10103.9	10025.1	10101.3	10140.8	10616.2	10133.0	5999.0
40°	11882.3	11864.3	11709.2	11409.4	11084.8	10895.4	10955.4	10997.4	11528.5	10976.0	6267.9
42.5°	12545.3	12560.7	12614.7	12639.5	12335.4	11938.0	11965.4	12009.1	12487.1	11877.1	6575.5
45°	12720.1	12753.5	13058.4	13657.2	13771.1	13461.0	13174.1	13198.1	13461.0	12778.3	6883.0
47.5°	12194.9	12256.6	12845.1	13958.7	14923.3	15142.6	14599.5	14567.8	14395.6	13507.3	7101.4
50°	11001.7	11058.2	11820.6	13467.9	15272.8	16747.9	16307.6	16214.2	15215.4	13943.3	7178.5
52.5°	9274.7	9343.2	9962.6	11922.5	14614.1	17464.1	17924.9	17847.0	15816.8	13977.6	7191.4
55°	6549.8	6632.9	7288.2	9137.6	12526.5	16894.4	18498.0	18474.9	16316.2	13886.8	7218.8
57.5°	3680.9	3740.9	4447.6	5857.6	9174.5	14715.1	17899.2	18052.6	16617.7	13729.2	7259.9
60°	1634.4	1650.7	2016.5	2916.0	5371.1	11245.8	16185.1	16443.8	16359.0	13518.4	7329.3
62.5°	906.3	892.6	892.6	1212.1	2334.3	6961.8	13198.1	13625.5	15254.8	13269.2	7332.7
65°	710.1	697.3	660.5	665.6	889.2	3089.9	9139.4	9899.2	13157.8	12538.5	7086.0
67.5°	602.2	591.1	554.2	539.7	552.5	1019.4	5021.5	5810.5	9984.0	10639.3	6137.7
70°	508.8	501.1	482.3	464.3	431.7	503.7	1921.4	2457.7	6152.3	7077.5	4189.8
72.5°	409.5	406.0	412.9	397.5	358.1	335.8	657.0	795.8	2763.5	3158.4	1726.1
75°	352.9	351.2	354.6	339.2	294.7	233.9	334.1	364.9	779.5	772.7	349.5
77.5°	229.6	232.1	293.8	287.0	253.6	155.9	173.0	186.7	236.4	177.3	106.2
80°	146.5	144.8	149.1	238.1	227.9	119.1	86.5	90.8	113.9	87.4	51.4
82.5°	89.1	87.4	97.7	111.4	114.8	83.1	53.1	54.0	71.1	56.5	27.4
85°	7.7	10.3	59.1	54.8	39.4	25.7	25.7	27.4	37.7	33.4	15.4
87.5°	0.0	0.0	10.3	15.4	8.6	9.4	9.4	10.3	14.6	14.6	7.7
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°	4442.5	4442.5	4442.5	4442.5	4442.5	4442.5	4442.5	4442.5	4442.5	4442.5	4442.5
2.5°	4445.9	4356.8	4176.9	4003.9	3857.4	3716.0	3555.0	3395.7	3321.1	3291.2	3260.3
5°	4453.6	4270.3	3899.4	3525.9	3138.7	2790.0	2492.8	2187.8	2035.3	1968.5	1937.7
7.5°	4463.9	4184.6	3585.0	2957.9	2334.3	1861.5	1448.6	1183.0	1068.2	1050.2	1005.7
10°	4465.6	4081.0	3220.1	2330.9	1565.1	1122.2	863.5	726.4	675.9	667.3	652.7
12.5°	4469.0	3958.5	2814.9	1726.1	1043.4	750.4	624.5	579.1	565.4	564.5	564.5
15°	4479.3	3830.0	2394.3	1243.8	749.5	594.5	548.2	530.3	525.1	527.7	526.8
17.5°	4479.3	3678.4	1981.4	926.9	605.6	534.5	508.8	496.8	495.1	497.7	498.6
20°	4446.8	3494.2	1602.7	721.3	537.1	496.0	472.9	461.7	457.4	459.2	460.0
22.5°	4368.8	3268.0	1294.4	597.1	491.7	460.9	436.0	418.9	412.0	412.9	412.9
25°	4247.2	2999.9	1012.5	516.5	454.9	423.2	394.0	374.3	370.1	369.2	370.9
27.5°	4091.3	2703.5	806.1	454.9	411.2	381.2	352.1	335.8	332.4	333.2	334.1
30°	3937.9	2396.0	635.6	402.6	362.4	334.1	311.8	304.1	304.1	306.7	307.5
32.5°	3797.4	2100.4	502.8	357.2	318.7	293.0	280.1	279.3	283.5	285.3	286.1
35°	3676.6	1827.2	416.3	322.1	284.4	262.1	257.8	261.3	266.4	269.8	270.7
37.5°	3591.0	1583.0	364.1	293.0	257.8	239.9	239.0	245.9	252.7	260.4	262.1
40°	3555.0	1376.6	328.1	267.3	236.4	222.7	220.2	229.6	242.4	253.6	255.3
42.5°	3525.0	1207.8	297.2	242.4	219.3	199.6	198.7	210.7	226.1	237.3	239.9
45°	3499.3	1072.5	269.0	215.9	197.0	171.3	173.9	189.3	201.3	213.3	215.9
47.5°	3446.2	961.1	238.1	187.6	162.8	146.5	151.6	165.3	174.8	192.7	195.3
50°	3351.1	870.3	206.4	153.3	132.8	126.8	134.5	143.9	155.9	171.3	173.0
52.5°	3286.9	801.8	179.0	128.5	109.6	111.4	119.1	122.5	129.4	135.3	133.6
55°	3250.0	764.1	156.8	111.4	93.4	98.5	100.2	95.9	92.5	86.5	83.9
57.5°	3245.8	729.8	139.6	96.8	82.2	84.8	78.8	64.2	52.3	45.4	43.7
60°	3238.9	687.9	125.9	81.4	72.8	69.4	56.5	35.1	24.8	23.1	23.1
62.5°	3164.4	622.8	115.6	68.5	61.7	52.3	32.6	16.3	13.7	14.6	14.6
65°	2927.1	532.0	105.4	55.7	48.8	37.7	16.3	9.4	5.1	6.0	6.0
67.5°	2488.5	424.0	94.2	42.8	36.8	24.0	9.4	4.3	0.0	0.0	0.0
70°	1666.1	263.0	79.7	30.0	24.0	14.6	6.9	0.9	0.0	0.0	0.0
72.5°	639.0	142.2	64.2	18.0	15.4	10.3	4.3	0.0	0.0	0.0	0.0
75°	143.9	93.4	44.5	12.8	11.1	6.9	1.7	0.0	0.0	0.0	0.0
77.5°	54.8	67.7	25.7	8.6	7.7	4.3	0.0	0.0	0.0	0.0	0.0
80°	26.6	40.3	12.0	5.1	4.3	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	13.7	15.4	5.1	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.7	7.7	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.6	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)