

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: P324871

Luminaire Tested: **GAN-SA7A-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324871
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-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 26983 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

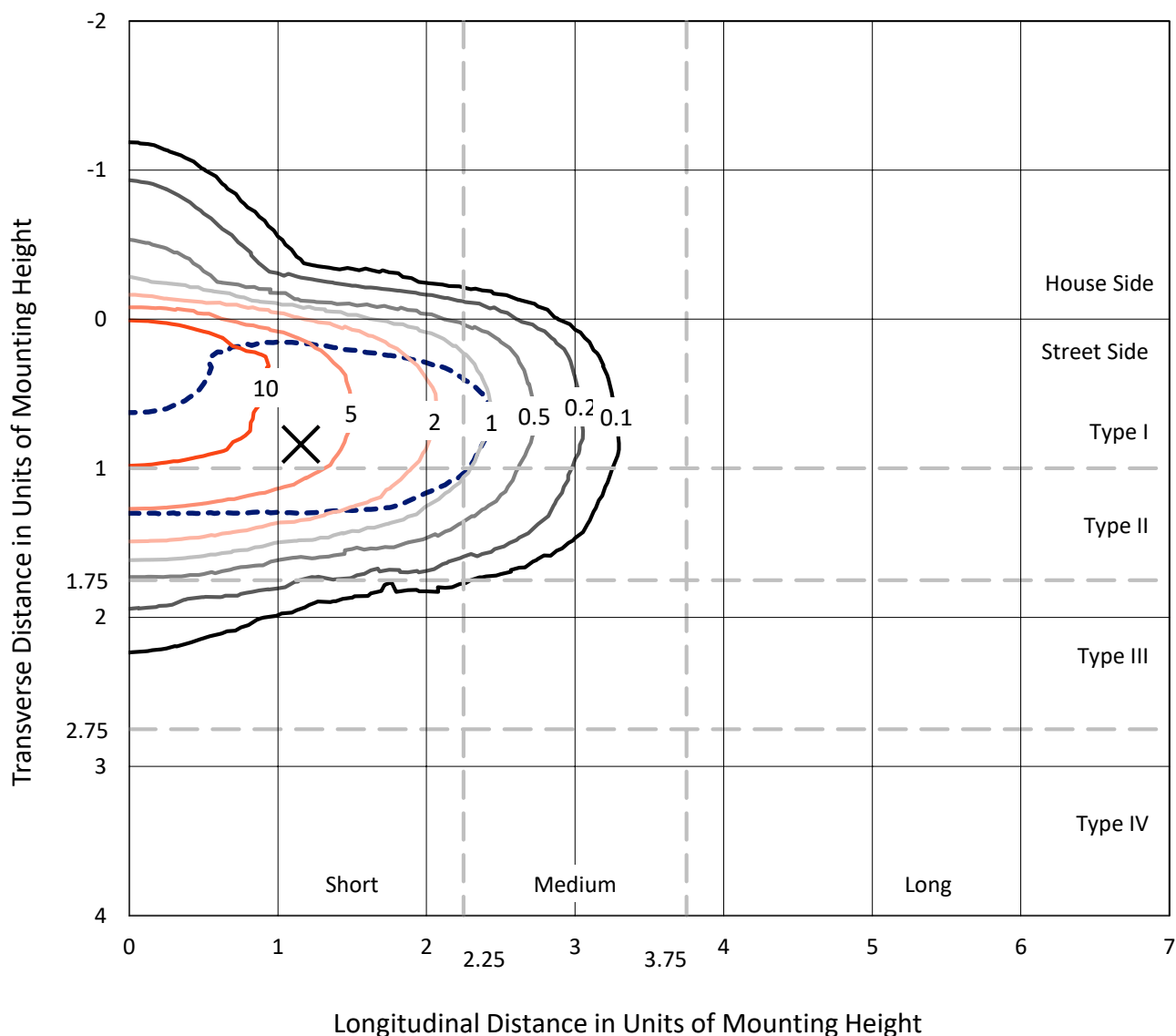
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

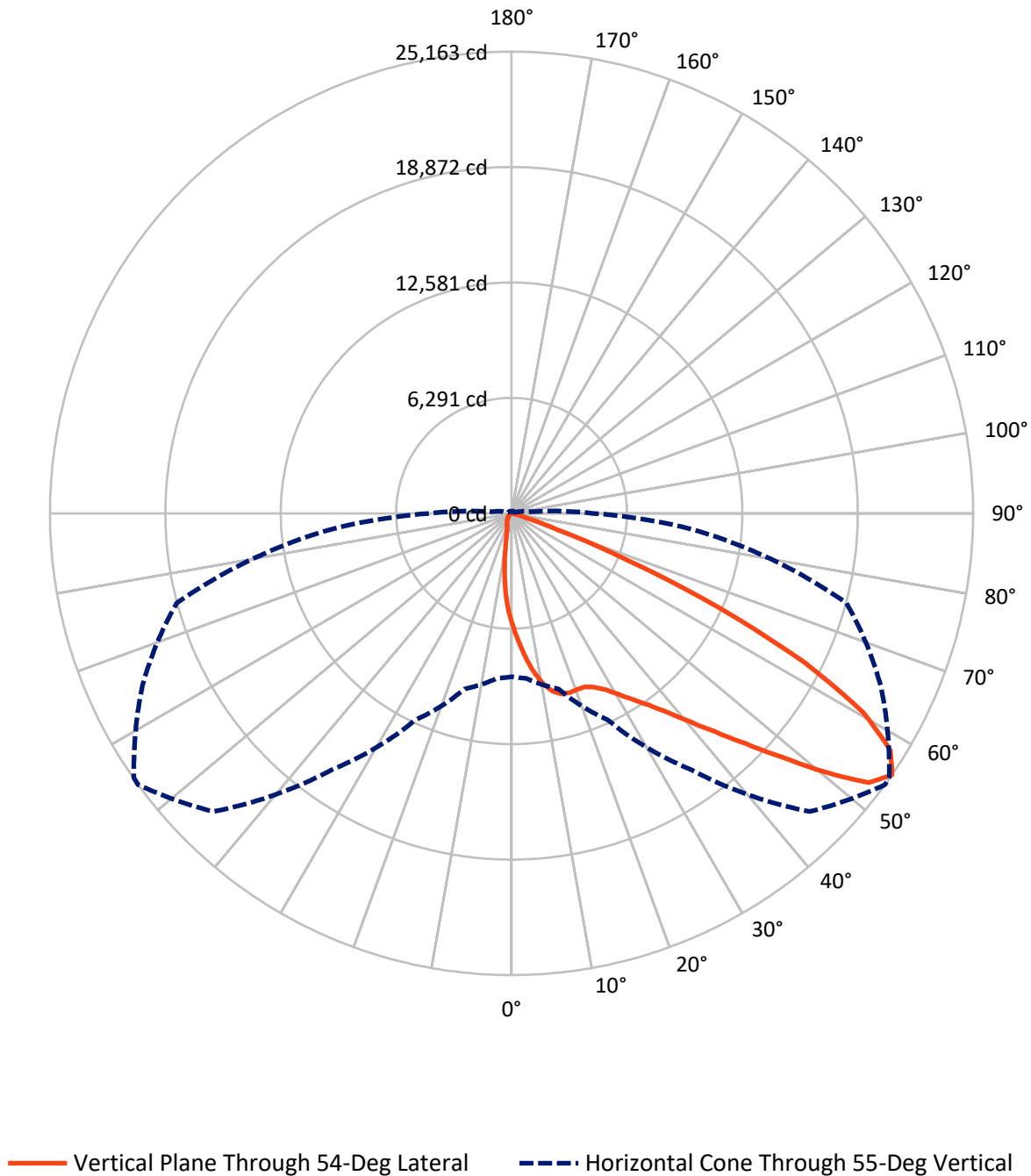
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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	1346.2	0.0	1346.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	25636.8	0.0	25636.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	26983.0	0.0	26983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.5	2.1
10°-20°	1526.2	5.7
20°-30°	2605.8	9.7
30°-40°	4181.8	15.5
40°-50°	6682.6	24.8
50°-60°	7160.5	26.5
60°-70°	3676.4	13.6
70°-80°	556.9	2.1
80°-90°	36.3	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°	26983.0	100.0
0°-180°	26983.0	100.0

Coefficient of Utilization



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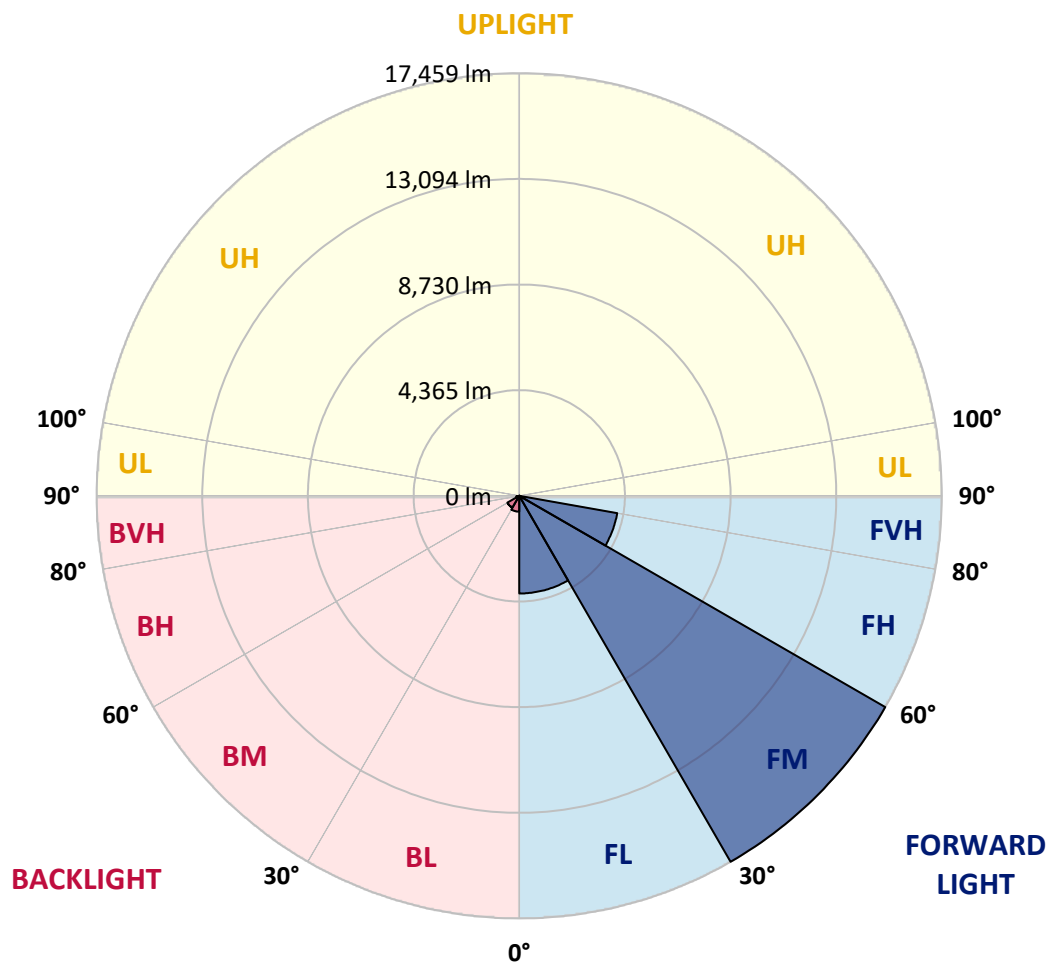
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4033.5	14.9			
FM	(30°-60°)	17459.2	64.7			
FH	(60°-80°)	4109.3	15.2			G2/5000
FVH	(80°-90°)	34.8	0.1			G1/100
BL	(0°-30°)	655.0	2.4	B2/1000		
BM	(30°-60°)	565.7	2.1	B1/1000		
BH	(60°-80°)	124.1	0.5	B1/500		G1/500
BVH	(80°-90°)	1.5	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°	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1
2.5°	7583.6	7470.6	7474.1	7422.8	7235.2	7088.4	6935.7	6899.6	6661.9	6412.5	6172.5
5°	8894.5	8811.8	8792.0	8692.9	8431.9	8155.8	7859.8	7791.0	7326.1	6815.7	6313.5
7.5°	9568.1	9569.2	9552.9	9516.8	9353.7	9085.6	8724.4	8652.2	8019.4	7253.8	6460.3
10°	9372.3	9416.6	9507.5	9627.5	9752.2	9718.4	9446.9	9381.6	8694.1	7717.6	6623.4
12.5°	8915.5	8921.3	9022.7	9219.6	9578.5	9946.8	9951.4	9929.3	9338.5	8202.4	6802.9
15°	8688.3	8710.4	8747.7	8874.7	9215.0	9804.6	10226.4	10257.9	9929.3	8717.4	6994.0
17.5°	8837.4	8868.9	8837.4	8852.6	9049.5	9579.7	10274.2	10354.6	10445.5	9226.6	7174.6
20°	9241.8	9270.9	9215.0	9153.2	9191.7	9514.5	10240.4	10348.8	10849.9	9678.8	7326.1
22.5°	9787.1	9798.8	9713.7	9612.3	9584.4	9735.9	10268.4	10380.3	11173.8	10087.8	7421.6
25°	10387.2	10397.7	10291.7	10175.2	10108.7	10170.5	10498.0	10581.8	11459.3	10478.1	7476.4
27.5°	11041.0	11050.3	10917.4	10774.1	10697.2	10699.5	10876.7	10966.4	11763.4	10923.3	7520.7
30°	11732.0	11727.3	11605.0	11405.7	11307.8	11305.5	11422.0	11512.9	12203.9	11494.3	7581.3
32.5°	12508.0	12498.7	12325.1	12078.1	11967.4	11983.7	12087.4	12139.8	12750.4	12102.5	7689.6
35°	13530.0	13503.2	13241.0	12934.5	12730.6	12724.8	12812.2	12854.1	13447.3	12839.0	7870.3
37.5°	14856.1	14831.6	14476.2	14031.1	13744.4	13637.2	13740.9	13794.5	14441.2	13784.0	8160.4
40°	16163.5	16139.0	15928.1	15520.3	15078.6	14821.1	14902.7	14959.8	15682.3	14930.7	8526.3
42.5°	17065.4	17086.4	17159.8	17193.6	16779.9	16239.3	16276.5	16336.0	16986.2	16156.5	8944.6
45°	17303.1	17348.6	17763.4	18578.0	18732.9	18311.1	17920.7	17953.4	18311.1	17382.4	9363.0
47.5°	16588.8	16672.7	17473.3	18988.1	20300.2	20598.5	19859.8	19816.6	19582.4	18374.0	9660.1
50°	14965.6	15042.5	16079.6	18320.4	20775.7	22782.3	22183.3	22056.3	20697.6	18967.2	9765.0
52.5°	12616.4	12709.6	13552.1	16218.3	19879.6	23756.4	24383.4	24277.3	21515.6	19013.8	9782.5
55°	8909.7	9022.7	9914.1	12430.0	17039.8	22981.5	25162.9	25131.5	22195.0	18890.3	9819.8
57.5°	5007.2	5088.7	6050.1	7968.1	12480.1	20017.1	24348.4	24557.0	22605.1	18675.8	9875.7
60°	2223.3	2245.5	2743.1	3966.6	7306.3	15297.7	22016.7	22368.6	22253.2	18389.2	9970.1
62.5°	1232.9	1214.2	1214.2	1648.9	3175.4	9470.2	17953.4	18534.8	20751.2	18050.1	9974.7
65°	966.0	948.5	898.4	905.4	1209.6	4203.1	12432.3	13465.9	17898.6	17056.1	9639.1
67.5°	819.2	804.0	753.9	734.1	751.6	1386.7	6830.8	7904.1	13581.3	14472.7	8349.2
70°	692.2	681.7	656.0	631.6	587.3	685.2	2613.7	3343.2	8369.0	9627.5	5699.4
72.5°	557.0	552.3	561.7	540.7	487.1	456.8	893.8	1082.5	3759.2	4296.4	2348.0
75°	480.1	477.8	482.4	461.4	400.9	318.1	454.5	496.4	1060.4	1051.1	475.4
77.5°	312.3	315.8	399.7	390.4	344.9	212.1	235.4	254.0	321.6	241.2	144.5
80°	199.3	196.9	202.8	323.9	310.0	162.0	117.7	123.5	155.0	118.9	69.9
82.5°	121.2	118.9	132.8	151.5	156.1	113.0	72.2	73.4	96.7	76.9	37.3
85°	10.5	14.0	80.4	74.6	53.6	35.0	35.0	37.3	51.3	45.4	21.0
87.5°	0.0	0.0	14.0	21.0	11.7	12.8	12.8	14.0	19.8	19.8	10.5
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°	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1	6043.1
2.5°	6047.8	5926.6	5681.9	5446.5	5247.2	5055.0	4835.9	4619.1	4517.8	4477.0	4435.0
5°	6058.3	5808.9	5304.3	4796.3	4269.6	3795.3	3390.9	2976.1	2768.7	2677.8	2635.8
7.5°	6072.2	5692.4	4876.7	4023.7	3175.4	2532.1	1970.5	1609.2	1453.1	1428.6	1368.0
10°	6074.6	5551.4	4380.3	3170.7	2129.0	1526.5	1174.6	988.2	919.4	907.7	887.9
12.5°	6079.2	5384.7	3829.1	2348.0	1419.3	1020.8	849.5	787.7	769.1	767.9	767.9
15°	6093.2	5209.9	3256.9	1692.0	1019.6	808.7	745.8	721.3	714.3	717.8	716.6
17.5°	6093.2	5003.7	2695.3	1260.8	823.8	727.1	692.2	675.9	673.5	677.0	678.2
20°	6048.9	4753.2	2180.2	981.2	730.6	674.7	643.2	628.1	622.3	624.6	625.8
22.5°	5942.9	4445.5	1760.7	812.2	668.9	626.9	593.1	569.8	560.5	561.7	561.7
25°	5777.4	4080.8	1377.4	702.7	618.8	575.6	536.0	509.2	503.4	502.2	504.6
27.5°	5565.3	3677.6	1096.5	618.8	559.3	518.5	478.9	456.8	452.1	453.3	454.5
30°	5356.8	3259.3	864.6	547.7	492.9	454.5	424.2	413.7	413.7	417.2	418.3
32.5°	5165.7	2857.3	684.0	485.9	433.5	398.5	381.0	379.9	385.7	388.0	389.2
35°	5001.4	2485.5	566.3	438.1	386.9	356.6	350.7	355.4	362.4	367.1	368.2
37.5°	4884.8	2153.4	495.2	398.5	350.7	326.3	325.1	334.4	343.8	354.2	356.6
40°	4835.9	1872.6	446.3	363.6	321.6	303.0	299.5	312.3	329.8	344.9	347.3
42.5°	4795.1	1643.0	404.3	329.8	298.3	271.5	270.3	286.7	307.6	322.8	326.3
45°	4760.1	1458.9	365.9	293.6	268.0	233.1	236.6	257.5	273.8	290.2	293.6
47.5°	4687.9	1307.4	323.9	255.2	221.4	199.3	206.3	224.9	237.7	262.2	265.7
50°	4558.6	1183.9	280.8	208.6	180.6	172.5	182.9	195.8	212.1	233.1	235.4
52.5°	4471.2	1090.7	243.5	174.8	149.2	151.5	162.0	166.6	176.0	184.1	181.8
55°	4421.0	1039.4	213.2	151.5	127.0	134.0	136.3	130.5	125.8	117.7	114.2
57.5°	4415.2	992.8	189.9	131.7	111.9	115.4	107.2	87.4	71.1	61.8	59.4
60°	4405.9	935.7	171.3	110.7	99.0	94.4	76.9	47.8	33.8	31.5	31.5
62.5°	4304.5	847.2	157.3	93.2	83.9	71.1	44.3	22.1	18.6	19.8	19.8
65°	3981.7	723.6	143.3	75.7	66.4	51.3	22.1	12.8	7.0	8.2	8.2
67.5°	3385.1	576.8	128.2	58.3	50.1	32.6	12.8	5.8	0.0	0.0	0.0
70°	2266.5	357.7	108.4	40.8	32.6	19.8	9.3	1.2	0.0	0.0	0.0
72.5°	869.3	193.4	87.4	24.5	21.0	14.0	5.8	0.0	0.0	0.0	0.0
75°	195.8	127.0	60.6	17.5	15.1	9.3	2.3	0.0	0.0	0.0	0.0
77.5°	74.6	92.1	35.0	11.7	10.5	5.8	0.0	0.0	0.0	0.0	0.0
80°	36.1	54.8	16.3	7.0	5.8	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	18.6	21.0	7.0	3.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.5	10.5	3.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	3.5	1.2	1.2	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)