

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: P266819

Luminaire Tested: **GAN-AF-04-LED-U-AFL-7027-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-AFL-7027-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21402.2 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 225
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: 28.75 FT

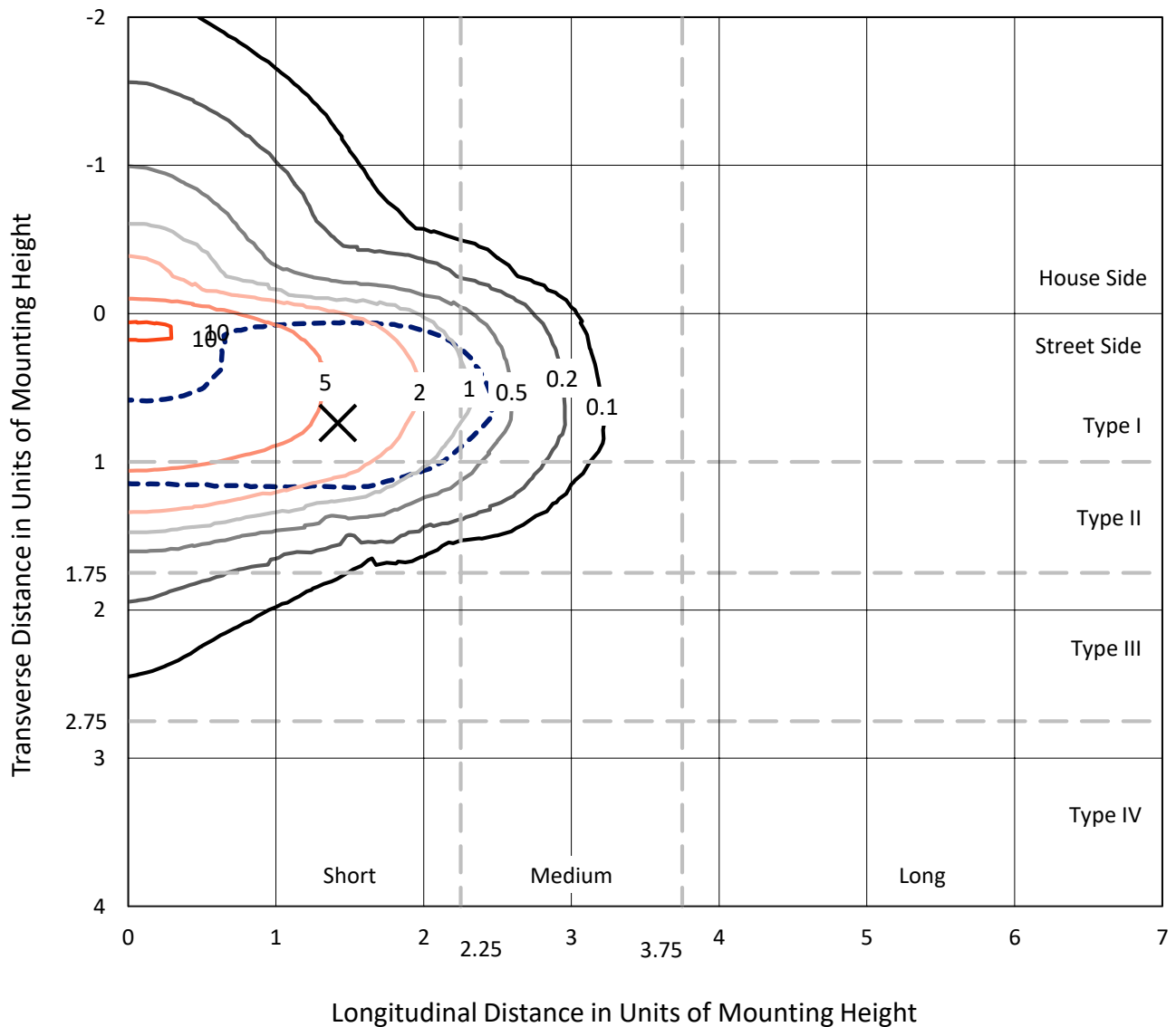


REPORT NUMBER: P266819

CATALOG NUMBER: GAN-AF-04-LED-U-AFL-7027-ADJ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

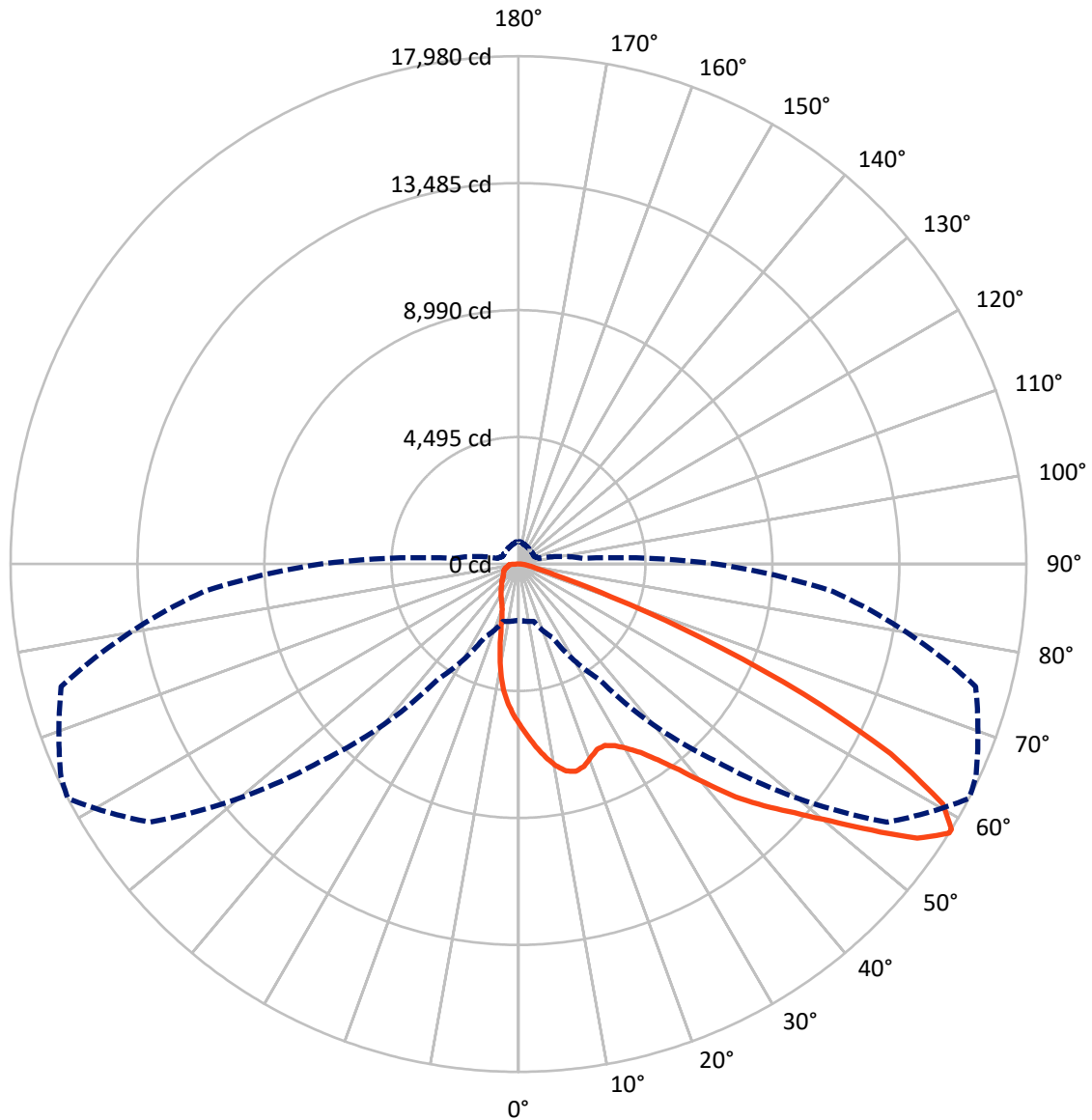


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P266819

CATALOG NUMBER: GAN-AF-04-LED-U-AFL-7027-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

REPORT NUMBER: P266819

CATALOG NUMBER: GAN-AF-04-LED-U-AFL-7027-ADJ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3263.9	0.0	3263.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	18138.3	0.0	18138.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	21402.2	0.0	21402.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.4	2.4
10°-20°	1299.7	6.1
20°-30°	2100.9	9.8
30°-40°	3335.2	15.6
40°-50°	4880.1	22.8
50°-60°	5104.2	23.8
60°-70°	3015.6	14.1
70°-80°	849.5	4.0
80°-90°	308.4	1.4
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°	21402.2	100.0
0°-180°	21402.2	100.0



REPORT NUMBER: P266819

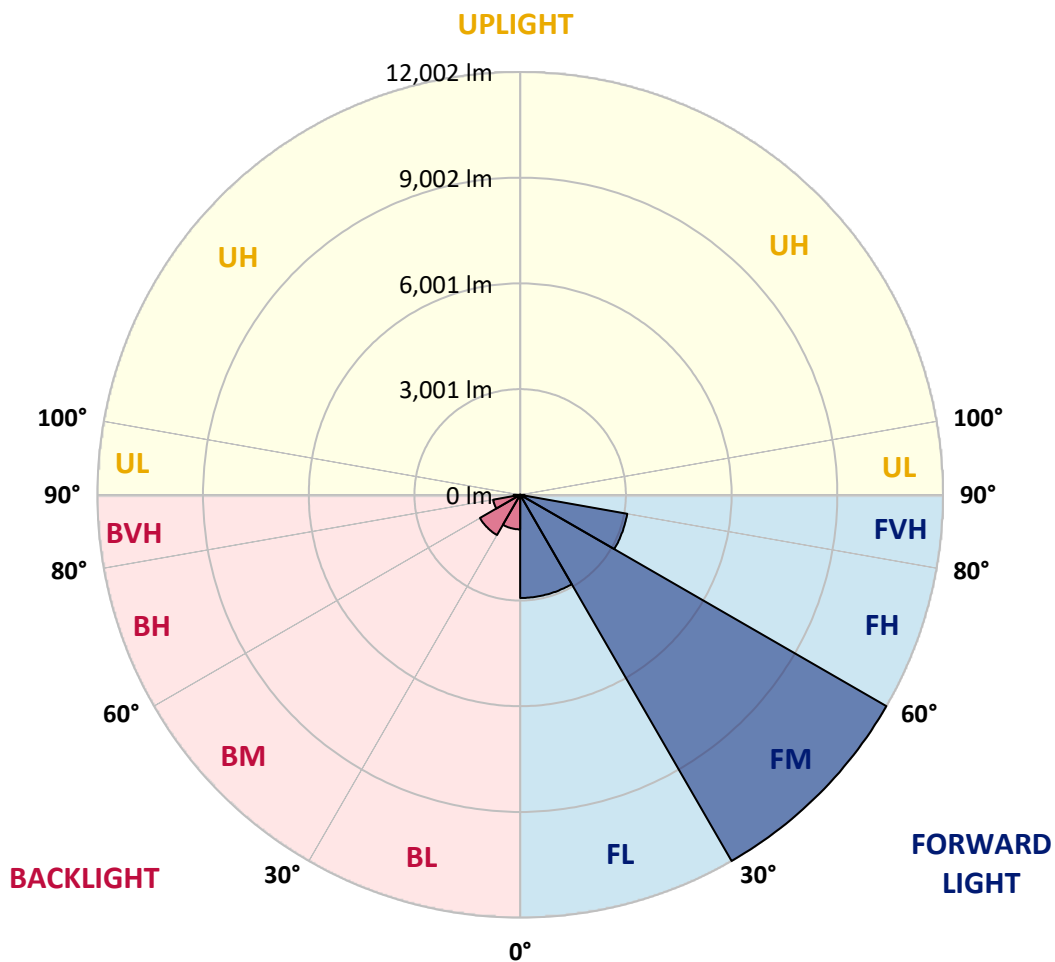
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2928.1	13.7			
FM	(30°-60°)	12002.2	56.1			
FH	(60°-80°)	3086.3	14.4			G2/5000
FVH	(80°-90°)	121.7	0.6			G2/225
BL	(0°-30°)	981.0	4.6	B2/1000		
BM	(30°-60°)	1317.4	6.2	B2/2500		
BH	(60°-80°)	778.8	3.6	B2/1000		G2/1000
BVH	(80°-90°)	186.7	0.9			G2/225
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





REPORT NUMBER: P266819

CATALOG NUMBER: GAN-AF-04-LED-U-AFL-7027-ADJ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	5685.1	5685.1	5685.1	5685.1	5685.1	5685.1	5685.1	5685.1	5685.1	5685.1	5685.1
2.5°	6496.4	6443.9	6410.7	6381.5	6343.1	6261.5	6151.7	6082.2	6046.9	5926.9	5784.8
5°	7133.4	7086.9	7052.7	7013.3	6944.8	6816.8	6639.5	6498.3	6428.8	6189.0	5904.7
7.5°	6984.1	7003.2	7062.7	7166.6	7255.3	7238.2	7079.8	6900.5	6808.8	6475.3	6043.8
10°	6085.2	6118.4	6221.2	6464.2	6857.1	7260.2	7383.2	7259.3	7166.6	6758.4	6186.9
12.5°	5904.7	5903.8	5911.8	5976.3	6210.2	6777.5	7393.3	7518.3	7462.8	7028.5	6333.1
15°	5978.3	5980.3	5974.3	6001.4	6074.1	6298.8	7084.9	7618.0	7657.3	7300.5	6484.2
17.5°	6171.9	6166.8	6143.6	6143.6	6169.7	6257.6	6722.0	7525.3	7706.6	7541.5	6617.3
20°	6496.4	6473.1	6411.7	6355.2	6327.0	6374.5	6573.0	7311.7	7621.1	7752.1	6727.1
22.5°	6889.5	6871.2	6771.5	6650.5	6552.7	6551.8	6649.6	7125.3	7472.9	7950.5	6819.8
25°	7397.4	7368.1	7219.9	7026.5	6855.1	6789.6	6816.8	7116.2	7392.3	8166.3	6902.4
27.5°	7993.9	7940.6	7765.2	7486.0	7234.1	7102.0	7062.7	7280.5	7465.9	8433.4	7017.4
30°	8717.5	8656.1	8431.3	8067.5	7711.8	7495.1	7411.5	7571.6	7709.8	8758.8	7201.8
32.5°	9541.0	9452.2	9192.3	8791.2	8323.4	7992.8	7856.8	7956.6	8066.5	9150.9	7432.5
35°	10678.7	10573.0	10197.0	9643.8	9115.6	8661.1	8443.3	8516.0	8622.8	9735.4	7766.1
37.5°	11454.7	11407.3	11157.5	10637.4	10063.0	9539.9	9203.3	9245.6	9306.1	10466.2	8193.5
40°	11447.7	11466.9	11471.9	11476.9	11086.0	10585.0	10223.3	10178.9	10166.7	11268.2	8679.2
42.5°	10874.3	10952.9	11206.9	11721.9	11959.7	11729.9	11398.4	11270.3	11206.9	12213.6	9194.2
45°	9996.5	10038.7	10514.5	11520.3	12407.1	12863.6	12612.7	12209.7	12094.7	13082.3	9621.6
47.5°	9544.0	9590.3	9889.6	10986.1	12402.1	13779.8	13924.8	13156.9	12951.4	13838.2	9990.4
50°	8466.6	8563.4	8940.3	10057.0	11949.7	14201.0	15296.5	14285.7	13860.4	14573.9	10360.3
52.5°	6488.3	6637.4	7059.7	8529.0	10801.7	13992.4	16394.1	15654.4	15053.6	15335.9	10677.8
55°	4092.7	4203.6	4558.3	6023.7	8640.9	12906.9	16810.3	17134.8	16600.7	16057.5	10952.9
57.5°	2225.2	2274.6	2407.6	3325.7	5620.5	10507.5	16203.5	17977.3	17755.5	16670.1	11160.5
58°	1991.5	2024.7	2107.3	2882.3	4984.6	9851.4	15934.5	17980.4	17869.4	16759.9	11176.6
60°	1477.4	1460.4	1386.8	1644.7	2774.4	6805.6	14307.8	17260.8	17586.3	16869.7	11098.0
62.5°	1298.1	1256.8	1106.6	1089.5	1349.4	3135.4	10947.9	14785.6	15554.5	16242.9	10620.3
65°	1219.4	1175.2	981.6	919.1	973.6	1326.3	6449.0	11088.9	12053.4	14342.1	9398.8
67.5°	1161.0	1103.6	902.0	816.3	820.3	876.7	2585.1	6984.1	8069.6	10889.3	7310.6
70°	1104.6	1042.0	834.4	735.7	712.5	693.4	1028.0	3496.2	4480.7	6878.3	4661.1
72.5°	1044.1	982.7	775.0	672.2	626.8	563.3	671.3	1430.1	1997.6	3254.2	2114.4
75°	956.4	901.0	715.5	615.8	551.3	466.6	507.0	746.9	895.9	1296.1	1018.9
77.5°	848.5	803.3	649.0	569.4	488.8	378.9	390.0	518.1	574.5	741.7	605.6
80°	609.7	625.8	577.5	511.9	435.4	307.4	299.3	377.9	408.2	476.7	394.0
82.5°	428.3	437.4	477.7	418.3	359.9	241.9	220.8	266.1	284.3	313.4	212.7
85°	295.4	285.2	327.5	291.3	260.0	161.2	151.2	180.4	191.5	194.6	109.9
87.5°	177.3	177.3	189.5	156.2	140.0	83.6	81.7	102.8	109.9	104.8	60.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P266819

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5685.1	5685.1	5685.1	5685.1	5685.1	5685.1	5685.1	5685.1	5685.1	5685.1	5685.1
2.5°	5700.1	5628.6	5476.4	5354.4	5200.3	5040.1	4950.4	4854.6	4789.1	4741.8	4817.3
5°	5743.6	5597.3	5282.9	4984.6	4655.0	4312.5	4052.4	3810.5	3642.2	3537.4	3636.2
7.5°	5812.0	5587.3	5086.5	4576.4	3984.9	3414.5	2904.5	2585.1	2398.6	2306.8	2364.2
10°	5890.6	5571.2	4855.6	4023.1	3176.6	2458.0	2077.2	1948.2	1905.8	1888.6	1896.7
12.5°	5956.1	5537.0	4572.5	3354.0	2385.4	1941.1	1831.1	1828.2	1837.3	1839.3	1842.2
15°	6002.6	5486.5	4152.1	2656.6	1907.8	1768.8	1762.7	1780.8	1798.0	1805.0	1809.0
17.5°	6033.7	5382.7	3677.5	2100.2	1709.2	1685.1	1699.1	1722.3	1740.5	1745.5	1749.5
20°	6030.7	5230.6	3112.1	1751.5	1601.4	1601.4	1625.7	1643.8	1644.7	1638.7	1641.7
22.5°	5999.5	5022.0	2563.9	1566.1	1505.6	1522.7	1547.1	1529.9	1459.2	1412.9	1416.0
25°	5947.0	4773.0	2094.2	1448.2	1416.9	1447.2	1440.2	1311.2	1210.3	1165.0	1165.0
27.5°	5900.7	4478.7	1733.4	1345.4	1328.4	1365.6	1240.6	1123.7	1081.4	1060.2	1053.2
30°	5867.5	4161.3	1492.5	1246.7	1244.6	1217.5	1076.3	1044.1	1037.1	1019.8	1013.8
32.5°	5875.5	3839.7	1338.4	1160.0	1167.1	1042.0	997.7	1004.8	998.7	980.6	972.5
35°	5942.1	3534.4	1237.5	1081.4	1060.2	941.3	951.3	964.5	962.4	937.2	929.1
37.5°	6061.0	3245.1	1171.1	1015.9	925.2	890.8	907.0	927.2	922.1	905.0	898.9
40°	6186.0	2973.0	1116.7	964.5	845.6	856.7	870.7	881.9	886.8	891.8	887.9
42.5°	6307.9	2688.8	1050.2	912.0	812.2	824.4	830.5	841.5	868.8	887.9	886.8
45°	6380.4	2421.8	981.6	837.5	786.0	793.2	789.2	811.3	844.5	875.8	876.7
47.5°	6461.1	2214.1	927.2	768.9	761.0	766.0	753.9	776.0	806.3	844.5	848.5
50°	6558.9	2090.1	883.8	714.5	726.5	726.5	723.7	743.7	786.0	830.5	838.5
52.5°	6669.6	2066.0	847.6	675.3	692.4	691.3	694.4	724.7	770.9	814.4	821.4
55°	6804.8	2131.5	808.2	646.1	659.0	663.2	673.2	707.4	746.9	796.2	799.2
57.5°	6962.0	2264.5	777.0	622.9	628.9	642.0	658.1	689.3	731.7	786.0	789.2
58°	6988.2	2292.7	772.0	620.8	622.9	637.9	656.1	686.3	728.6	788.2	791.1
60°	6989.2	2386.4	761.0	611.7	599.7	624.9	645.1	675.3	723.7	795.2	802.2
62.5°	6741.2	2385.4	752.8	598.6	575.5	606.6	629.9	665.1	718.6	812.2	826.4
65°	5936.0	2167.8	714.5	578.5	556.3	590.5	616.7	658.1	732.7	886.8	895.9
67.5°	4643.0	1776.8	642.9	550.2	531.1	574.5	608.7	657.1	747.7	904.1	910.1
70°	3069.8	1329.3	564.3	518.1	504.8	555.3	612.7	691.3	730.6	867.8	851.7
72.5°	1593.4	933.2	500.9	477.7	474.7	538.2	671.3	687.4	713.6	816.3	796.2
75°	836.5	647.9	445.5	433.3	438.5	534.1	792.1	669.1	691.3	781.0	819.3
77.5°	511.9	523.1	398.0	393.1	403.1	522.0	791.1	646.1	659.0	718.6	761.0
80°	342.7	424.3	361.7	362.8	369.8	477.7	710.5	609.7	619.8	679.3	722.5
82.5°	216.8	250.9	328.5	345.7	336.7	394.0	603.8	555.3	569.4	777.0	821.4
85°	109.9	157.3	285.2	332.6	303.4	276.1	489.8	486.8	493.8	560.4	585.5
87.5°	50.3	86.6	222.7	290.2	228.8	172.4	355.8	360.8	389.1	398.0	398.0
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)